

The premier international meeting in the field of medical lasers and energy-based technologies.

Hilton San Diego
Bayfront & San Diego
Convention Center

APR 5-7, 2017
Pre-Conference

APR 7-9, 2017
Conference

APR 7-8, 2017
Exhibits

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ASLMS 2017 Conference Program

*Complete Educational Information
Including: Courses, Workshops and
Sessions*



37th ASLMS Annual Conference on
ENERGY-BASED MEDICINE & SCIENCE

April 5-9, 2017



WELCOME..... 3
 CAN'T MISS ACTIVITIES4-6
 AWARDS7-11
 GENERAL INFORMATION.....12-13
 WHO'S WHO.....14-18
 PROGRAM-AT-A-GLANCE.....19-21
 MAPS.....22-23
WEDNESDAY, APRIL 5, 2017
 » Fundamentals of Lasers in Health Care Course24-25
THURSDAY, APRIL 6, 2017
 » Expert Treatment Approaches Course.....26
 » Pediatric Laser Focus Course27
 » Nursing/Allied Health Course28-29
 » Energy-Based Treatments of Onychomycosis Masters Luncheon.....30
 » Fully Ablative and Fractional Resurfacing Masters Luncheon31
 » Neck Rejuvenation Masters Luncheon.....32
 » Our Favorite Laser Pearls Masters Luncheon.....33
 » Laser Treatment for Patients of Color Masters Luncheon.....34
 » Combining Injectables with Lasers, Lights and Energy-Based Devices Course35
 » Device-Based Resurfacing, Rejuvenation and Recontouring Course36
 » Celebration of ASLMS Women in Energy-Based Devices37
FRIDAY, APRIL 7, 2017
 » Device-Assisted Hair Restoration Masters Breakfast.....38
 » New Treatments for Tackling Scars Masters Breakfast.....39
 » Optimizing Patient Experience Masters Breakfast40
 » State-of-the-Art in Tattoo Treatment Masters Breakfast.....41
 » Basic Science and Translational Research Session.....42-43
 » Marketing Your Photomedicine Practice: All Creatures Great and Small Workshop.....44
 » Complications, Legal Issues, and Laser Safety Workshop45
 » Emerging Energy-Based Device Applications in Women's Health Workshop.....46
 » Energy-Based Treatments and Imaging for Skin Cancer Workshop.....47
 » Laser Assisted Drug Delivery Workshop.....48
 » Plenary Session49
 » ESLD Challenging Clinical Cases/Series (with International Panel Discussion) Session50-51
 » PAPDT – PDT Session.....52-53
 » Basic Science and Translational Research Session54-56
 » Cutaneous Applications Session.....57-59
 » Photobiomodulation Session60-62
 » Ask Me Anything.....63
 » Laser Dental Applications Session.....64-65
 » Tech Connect - Non-CME Session.....66-67
SATURDAY, APRIL 8, 2017
 » Basic Mechanisms of Photobiomodulation Workshop.....68
 » Laser and Energy-Based Treatments for Leg Veins Workshop.....69
 » Laser Safety in the Practice Environment Workshop70
 » Non-Invasive Body Contouring Workshop71
 » Periorbital Therapies and Rejuvenation Workshop72
 » Basic Science and Translational Research Session73-74
 » Moving from the Lab to the Clinic Session.....75
 » Cutting Edge: Laser and Skin - Special CME Session76
 » Clinical Pearls to Start your Career Session.....77
 » PAPDT – PDT Session.....78-80
 » Basic Science and Translational Research Session81-82
 » Cutaneous Applications Session.....83-85
 » ESLD - Challenging Clinical Cases/Series (with International Panel Discussion) Session.....86-87
 » Women's Health Session.....88-90
 » Photobiomodulation / NAALT Session91-93
 » Ask Me Anything.....94
SUNDAY, APRIL 9, 2017
 » Cutaneous Applications Session.....95-97
 » Early Career Abstracts and Luminary Pearls Session98-100
 » ESLD - Laser and EBD Medicine for Breast Cancer Patients Session.....101-103
 » ASLMS 2017 Greatest Hits - In Case You Missed It... Session104
CONTINUING EDUCATION INFORMATION.....105-113
CONFERENCE GUIDE.....114
FACULTY/SPEAKER CONFLICT OF INTEREST DISCLOSURE.....115-137
ABSTRACTS/EPOSTERS..... BACK OF PROGRAM
FUTURE CONFERENCE DATES235



Kristen M. Kelly, MD
ASLMS President



Bernard Choi, PhD
ASLMS 2017 Co-Chair



Arisa E. Ortiz, MD
ASLMS 2017 Co-Chair



Nazanin Saedi, MD
ASLMS 2017 Co-Chair

Welcome!

On behalf of the 2017 Conference Planning Committee, it is our pleasure to welcome you to San Diego and the 37th Annual Conference of the American Society for Laser Medicine and Surgery!

ASLMS 2017 promises to be an outstanding program, with new educational offerings, speakers, events and contributors including:

- » New sessions focused on energy-based treatment of scars, skin cancer, onychomycosis, hair restoration, and leg veins.
- » Back by request, *Laser Treatments for Patients of Color*
- » A special translational research session, *Moving from Lab to the Clinic*, examines case studies that bring together scientist/engineer and clinical perspectives on several key topics
- » *Marketing Your Photomedicine Practice: All Creatures Great and Small* workshop
- » Over 8 hours of programming focused on women's health, including a new workshop, *Emerging Energy-Based Device Applications in Women's Health*, panel discussions and abstract sessions
- » A new collaboration with the European Society for Lasers and Energy-Based Devices (ESLD), with sessions on *Challenging Clinical Cases/Series (with International Panel Discussion)* and *Laser and Energy-Based Device Medicine for Breast Cancer Patients*

We are honored to have Kim Phuc deliver our keynote address during the Plenary session. Kim is the subject of the famous Pulitzer Prize-winning photo of a nine-year-old girl running down the road in Vietnam after being severely burned by napalm during a bombing of her village. Her presentation, *Life Lessons*, will offer reflection about her journey from war to peace and forgiveness.

Please note that complete information about our sponsors, exhibits, speakers, special events and awards is in our companion piece, the non-CME Conference Guide, **explore:connect**. Keep both publications on hand during the conference.

Finally, don't forget to download our completely new mobile app for ASLMS 2017. New features include attendee messaging, surveys, discussion board, enhanced exhibitor profiles, drop-pin maps, CE Tracking, and course handouts. Access the full program agenda to build your personal conference calendar. Search for ASLMS 2017 in the Apple App or Google Play stores or go to <https://aslms2017.gatherdigital.com/> for Blackberry, Windows, or on your computer.

Thank you for joining us! We hope your time in sunny San Diego is enjoyable, invigorating and valuable.

Special Events

Celebration of ASLMS Women in Energy-Based Devices

Thursday, April 6 | 5:30 PM - 7:30 PM | 28 C/D/E

Sponsored by Solta Medical, a division of Valeant Pharmaceuticals

Join us for an evening of networking and inspiration, with a focus on women from all specialties involved in ASLMS, which includes scientists, clinicians, allied health practitioners and women in the energy-based device industry. For 2017, the Celebration will highlight international humanitarian efforts. R. Rox Anderson, MD, is the featured speaker. Following his talk, Dr. Anderson will join Fernanda Sakamoto, MD, PhD; Jill Waibel, MD and special guest, Kim Phuc in a Q&A session. The evening will proceed with an expert panel offering industry, scientific and clinical perspectives. Attendees can enjoy complimentary hors d'oeuvres, bar/beverages and networking with peers and luminaries.

The ASLMS Leadership, Mentorship & Public Advocacy for Women in Medical Science Award will also be presented. This award will honor Jill Waibel, MD, as an individual who has significantly promoted the professional development of women in specialties using lasers and/or energy-based devices through teaching, mentoring, organizational leadership, or public advocacy.



R. Rox Anderson, MD



Fernanda Sakamoto,
MD, PhD



Jill Waibel, MD



Kim Phuc

Plenary Session

Friday, April 7 | 10:30 AM - 12:00 PM | Hall F

Keynote speaker sponsored by Lumenis

Join the current ASLMS President for a conference welcome and Presidential address, introduction of the Program Directors, presidential citations and award recipient announcements, and presentations by this year's speakers.

Tech Connect

Friday, April 7 | 5:30 PM - 7:30 PM | Hall F

Sponsored by Aerolase, Thermi, Zeltiq Aesthetic, Inc., Lutronic, Inc., Merz Aesthetics, and Solta Medical, a division of Valeant Pharmaceuticals

This non-CME session will feature a group of experts each discussing their personal procedural and device preference, what works and how and why devices/techniques are used.

Early Career Reception

Saturday, April 8 | 7:30 PM - 9:00 PM | Hilton Elevation Room

This special reception offers our students and early career attendees the opportunity to network and build professional relationships with colleagues. The reception is open to all students, residents, fellows-in-training, PhD candidates, and scientists and physicians 10 years or less post-graduation. Attendees can enjoy complimentary hors d'oeuvres, bar/beverages and share excellent conversation with peers.

The Exhibit Hall

See the newest products and services, discover and compare cutting-edge technologies, acquire the latest information and new solutions, all in one place. In addition to the exhibit booths, the exhibit hall will feature a number of special activities:

Ask Me Anything **TWO DAYS**

Friday, April 7 | 3:10 PM - 3:30 PM | Hall D | Robert A. Weiss, MD and Tina S. Alster, MD

Saturday, April 8 | 3:10 PM - 3:30 PM | Hall D | Eric F. Bernstein, MD, MSE and Suzanne L. Kilmer, MD

Listen to and participate in an energetic open questions/answers discussion. Inquiries to the session hosts may focus on devices, clinical approaches, and personal recommendations for practice.



Robert A. Weiss, MD



Tina S. Alster, MD



Eric F. Bernstein, MD,
MSE



Suzanne L. Kilmer, MD

Exhibitor Reception / Silent Auction with "A Tribute to Fitz"

Saturday, April 8 | 5:30 PM - 7:00 PM | Halls D/E

Come grab a bite to eat and a beverage. It's your last opportunity to visit the exhibit booths and mingle with the exhibitors before they close and head home.

In addition to the Exhibitor Reception, ASLMS will host its 12th annual Silent Auction to support research grants. Stop by for your last chance to bid on some fantastic items and catch a special tribute to Richard Fitzpatrick, MD. Bidding closes at 6:30 PM followed by the names of the winners.



Richard Fitzpatrick, MD

In-the Spotlight

Friday, April 7 | 9:00 AM - 9:20 AM

Friday, April 7 | 2:00 PM - 2:20 PM

Friday, April 7 | 3:30 PM - 3:50 PM

Saturday, April 8 | 9:00 AM - 9:20 AM

Saturday, April 8 | 9:30 AM - 9:50 AM

Attend one of the 20-minute exhibitor presentations/ question and answer sessions to gather product "how to" information from industry leaders and experts.

Cash Drawings

Don't miss out on a great opportunity to win some cash! Special drawings for \$500 each will be held in the exhibit hall during lunch and breaks. You must be present to win.

ePosters

Visit one of 20 viewing stations to search and view ePosters by author, title, topic, and/or abstract number. CME credits available!

Speakers

Keynote Speaker

Friday, April 7 | 10:30 AM - 12:00 PM | Hall F | Plenary Session
Sponsored by Lumenis

KIM PHUC

Kim Phuc is known as the “napalm girl” or “girl in the picture,” the subject of the famous Pulitzer Prize-winning photo of a nine-year-old girl running down the road in Vietnam after being severely burned by napalm during a bombing of her village. She wasn't expected to survive, but she did eventually recover after 17 operations.

Kim's presentation, *Life Lessons*, will offer reflection about her journey from war to peace and forgiveness. She will discuss the bombing of Trang Bang, her struggle to survive, her quest for freedom, how she learned to forgive her enemies and use that photograph for Peace; her life as a wife and mother and a UNESCO Goodwill Ambassador for Peace.



Special Speaker

Friday, April 7 | 10:30 AM - 12:00 PM | Hall F | Plenary Session
Dr. Horace Furumoto Innovations Professional Development - Young Investigator Award Recipient

BO CHEN, PHD

Objective Measurements in the Development of Aesthetic Treatments



Featured Session Speakers



Friday, April 7, 4:50 PM - 4:56 PM | Laser Dental Applications

CHRISTOPHER J. WALINSKI, DDS

Intrapulpal Thermal Increment Measurements and Duration of Class II Cavity Preparations Made with Er,Cr:YSGG Laser



Saturday, April 8, 2:16 PM - 2:44 PM | Women's Health

ADRIAN GASPAR, MD

Laser Vaginal Rejuvenation: Past, Present and Future



Saturday, April 8, 5:01- 5:21 PM | Basic Science and Translational Research

TAYYABA HASAN, PHD

Translating Laboratory Science into the Clinic: Photodynamic Therapy of AMD, Skin and Pancreatic Cancers

Presidential Citations

BRADLEY S. BLOOM, MD

In recognition of your service to the ASLMS and appreciation of your ideas, enthusiasm and efforts to launch the ASLMS Early Career Network and support Early Career activities through education and communication.



BERNARD CHOI, PHD

In grateful appreciation of your leadership, hard work, determination and innovation in strengthening the Society's educational programs as Program Chair for the 2017 Annual Conference.



JEFFREY S. DOVER, MD, FRCPC

In grateful appreciation of your dedicated service to the ASLMS, leading the charge for fundraising, which allowed enhancements to the 2017 program and scholarship funding for members in need.



BETH MALLEWATSON

In grateful appreciation of your dedicated service to the Society and its journal from 1999 – 2017. Your work has allowed dissemination of the findings of our scientists to the world.



ARISA E. ORTIZ, MD

In grateful appreciation of your leadership, hard work, determination and innovation in strengthening the Society's educational programs as Program Chair for the 2017 Annual Conference.



UTPALKUMAR PATEL, MD, PHD

In grateful appreciation of your service and dedication to the Society, and your support of new programs, by serving as the first LightTalk Podcast Coordinator.



JASON N. POZNER, MD, FACS

In grateful appreciation of your committed service and dedication to the growth and support of the Society as Silent Auction Chair.



ANTHONY M. ROSSI, MD

In recognition of your dedication and service to the ASLMS and your leadership in building the Early Career momentum through education and communication.



NAZANIN SAEDI, MD

In grateful appreciation of your leadership, hard work, determination and innovation in strengthening the Society's educational programs as Program Chair for the 2017 Annual Conference.



CHRISTOPHER B. ZACHARY, MBBS, FRCP

In grateful appreciation of your many years of dedicated service to the educational programs of the Society and for your mentorship and teaching to its members.



ASLMS STAFF

In grateful appreciation, of quality service and positive support to the Society Leaders and Members. Dianne Dalsky, JoAnn Janikowski, Diane Dodds, Desiree Van Berkel, Beth Bartelt, Nicole Rockman, Andrea Alstad, Stephanie Grauden, and Paula Deffner.

Honorary Awards



Dr. Horace Furumoto Innovations Professional Development - Young Investigator Award

Friday, April 7 | 11:16 AM - 11:28 AM | Hall F | Plenary Session

BO CHEN, PHD

Objective Measurements in the Development of Aesthetic Treatments



Caroline and William Mark Memorial Award

Saturday, April 8 | 1:36 PM - 1:51 PM | 30 A/B | Basic Science and Translational Research Abstract Session

THOMAS E. MILNER, PHD

A Narrative for Laser Medicine: The Central Role of Lasers in Twenty-First Century



Leon Goldman Memorial Award

Friday, April 7 | 1:36 PM - 1:51 PM | Hall F | Cutaneous Applications Abstract Session

GERALD GOLDBERG, MD

Challenges in Dermatologic Lasers: Past, Present and Future



Ellet H. Drake Memorial Award

Saturday, April 8 | 10:33 AM - 10:43 AM | Hall F | Cutting Edge: Laser and Skin Session

MELANIE C. GROSSMAN, MD

My Unexpected Journey Through Laser Hair Removal



Excellence in Laser Nursing/Allied Health Award

Thursday, April 6 | 1:30 PM - 1:50 PM | 31 B/C | Nursing/Allied Health Course
Award sponsored by Cynosure

LAURA L. MCDERMOTT, BIS, LE, MA

Ingredients: From Nutrition to Topicals



ASLMS Leadership, Mentorship & Public Advocacy for Women in Medical Science Award

Thursday, April 6 | 5:50 PM - 6:00 PM | 28 C/D/E | Celebration of ASLMS Women in Energy-Based Devices
Sponsored by Solta Medical, a division of Valeant Pharmaceuticals

JILL S. WAIBEL, MD

Shadow and Light: Journeys of Laser Healing

Best Overall Abstract Awards

Dr. Richard E. Fitzpatrick Clinical Research and Innovations Award

Saturday, April 8 | 1:40 PM - 1:46 PM | Hall F | Cutaneous Applications Abstract Session
Sunday, April 9 | 7:35 AM - 7:41 AM | 30 C/D | Early Career Abstracts and Luminary Pearls Session



BRIAN P. HIBLER, MD

SURGICAL OUTCOMES OF LENTIGO MALIGNA MELANOMA PREVIOUSLY TREATED COSMETICALLY AS BENIGN PIGMENTED LESIONS

Best Overall Basic Science and Translational Research Award

Sunday, April 9 | 8:15 AM - 8:25 AM | 30 A/B | ESDL Laser and EBD Medicine for Breast Cancer Patients Abstract Session



NINA BLANK

EFFECT OF LASER THERAPY ON QUALITY OF LIFE IN PATIENTS WITH RADIATION-INDUCED BREAST TELANGIECTASIAS

Outstanding Early Career Abstract Awards

Outstanding Early Career Clinical Abstract Award

Saturday, April 8 | 1:40 PM - 1:46 PM | Hall F | Cutaneous Applications Abstract Session
Sunday, April 9 | 7:35 AM - 7:41 AM | 30 C/D | Early Career Abstracts and Luminary Pearls Session



BRIAN P. HIBLER, MD

SURGICAL OUTCOMES OF LENTIGO MALIGNA MELANOMA PREVIOUSLY TREATED COSMETICALLY AS BENIGN PIGMENTED LESIONS

Outstanding Early Career Clinical Abstract Award

Saturday, April 8 | 1:47 PM - 1:53 PM | Hall F | Cutaneous Applications Abstract Session
Sunday, April 9 | 8:38 AM - 8:44 AM | 30 C/D | Early Career Abstracts and Luminary Pearls Session



EMILY WENANDE, MD

FRACTIONAL LASER-ASSISTED TOPICAL DELIVERY OF THE ANTICANCER AGENT CISPLATIN

Outstanding Early Career Scientific Abstract Award

Saturday, April 8 | 3:31 PM - 3:41 PM | 30 A/B | Basic Science and Translational Research Abstract Session
Sunday, April 9 | 10:10 PM - 10:16 AM | 30 C/D | Early Career Abstracts and Luminary Pearls Session



KALINE D. SOUSA

PHOTOBIMODULATION EFFECTS ON GENE AND PROTEIN EXPRESSION OF PROINFLAMMATORY CHEMOKINES AND CYTOKINES BY J774 MACROPHAGES POLARIZED TO M1 PHENOTYPE

Best of Session Awards

Best of Session PAPDT-PDT Award

Saturday, April 8 | 4:44 PM - 4:49 PM | 30 C/D | PAPDT-PDT Abstract Session

HUI LIU, PHD

NOVEL BITE BLOCKS FOR PRECISION AND ERGONOMIC INTRAORAL PDT LIGHT DOSIMETRY AND DELIVERY WITH A PORTABLE, LOW-COST LED SYSTEM FOR GLOBAL HEALTH APPLICATIONS



Best of Session Basic Science and Translational Research Award

Friday, April 7 | 4:30 PM - 4:39 PM | 30 A/B | Basic Science and Translational Research Abstract Session

WILLIAM LEWIS

SMARTPHONE IMAGING OF SUBCUTANEOUS VEINS



Best of Session Photobiomodulation Award

Friday, April 7 | 3:31 PM - 3:39 PM | 25 B/C | Photobiomodulation Abstract Session Award sponsored by the Kerith Foundation

IRENE CASTELLANO-PELLICENA

UNDERSTANDING PHOTOBIO-MODULATION FOR HUMAN WOUND HEALING



Best of Session Women's Health Award

Saturday, April 8 | 2:09 PM - 2:15 PM | 28 A/B | Women's Health Abstract Session

ADRIAN GASPAR, MD

INTRAURETHRAL ERBIUM YAG LASER FOR THE MANAGEMENT OF URINARY SYMPTOMS OF GENITOURINARY SYNDROME OF MENOPAUSE (GSM)



Best of Session Nursing/Allied Health Award

Thursday, April 6 | 3:37 PM - 3:46 PM | 31 B/C | Nursing/Allied Health Course and Abstract Session

SHANNON L. HERNANDEZ, BSN

NURSING CONSIDERATIONS FOR ULTRASOUND TECHNOLOGIES



Best of Session Cutaneous Applications Award

Friday, April 7 | 2:06 PM - 2:12 PM | Hall F | Cutaneous Applications Abstract Session

ARISA E. ORTIZ, MD

AN EXPANDED STUDY OF LONG-PULSED 1064nm Nd:YAG LASER TREATMENT OF BASAL CELL CARCINOMA



Best of Session ESLD Laser and EBD Medicine for Breast Cancer Award

Sunday, April 9 | 7:36 AM - 7:51 AM | 30 A/B | ESLD Laser and EBD Medicine for Breast Cancer Treatment Abstract Session

JOLIEN ROBIJNS

PREVENTION OF ACUTE RADIODERMATITIS BY PHOTOBIO-MODULATION: PRELIMINARY RESULTS OF A RANDOMIZED, PLACEBO-CONTROLLED TRIAL IN BREAST CANCER PATIENTS



Best of Session Laser Dental Applications Award

Friday April 7 | 3:36 PM - 3:42 PM | 31 B/C | Laser Dental Applications Session

ILYA YAROSLAVSKY, PHD

COMBINING SUPER PULSE DIODE TECHNOLOGY AND SMART TEMPERATURE FEEDBACK FOR FAST AND PRECISE SOFT-TISSUE SURGERY



Best of Session Electronic Poster Award

Friday, April 7 | 9:00 AM - 5:30 PM | Halls D/E
Saturday, April 8 | 9:00 AM - 7:00 PM | Halls D/E

ADRIAN ALEGRE-SANCHEZ, MD

CAN ECHYMOSES RESOLVE IN 24 HOURS?



Policies & Guidelines

Official Language

The official language at the ASLMS Annual Conference is English. No simultaneous translation is available.

Copyright

All of the proceedings of the conference, including the presentation of scientific papers, are intended solely for the benefit of the members of the ASLMS. No statement of presentation made is to be regarded as dedicated to the public domain. Any statement or presentation is to be regarded as limited publication only and all property rights in the material presented, including common law copyright, are expressly reserved to the speaker or to ASLMS. Any sound reproduction, transcript or other use of the material presented at the Annual Conference without the permission of the speaker or ASLMS is prohibited to the full extent of common law copyright in such material.

Disclaimer

The views expressed and materials presented throughout the Annual Conference during educational sessions represent the personal views of the individual participants and do not represent the opinion of ASLMS. This organization assumes no responsibility for the content of the presentations made by an individual participant or group of participants.

Disclosure of Faculty and Speaker Commercial Relationship(s)

Consistent with the ASLMS policy, faculty and speakers for the conference are expected to disclose at the beginning of their presentation, any economic or other personal interests that create, or it may be perceived as creating, a conflict related to the material discussed. This policy is intended to make you aware of faculty's and speaker's interests, so you may form your own judgments about such material. Disclosure of faculty's and speaker's relationship(s) is indicated in the conference program. Please be advised that FDA approval is specific in regard to approved uses and labeling of drugs and devices. The presenter must disclose whether or not the device/treatment is approved by the FDA or if it is considered to be investigational, and must fully disclose any off-label use of devices, drugs or other materials that constitute the subject of the presentation. In order to meet the guidelines established by the Accreditation Council for Continuing Medical Education, the ASLMS Committee on Continuing Education has endorsed the policy that disclosure of all proprietary interests or other potential conflicts of interest must be provided to conference registrants of all speakers and spouses who have relationships with industry.

Educational Session Handouts

In an effort to be environmentally conscious and to embrace technological advancement, ASLMS will **not** provide print/hard copy handouts for any educational sessions. Handouts will be available via the ASLMS mobile app to registered attendees prior to the conference - search for ASLMS 2017 in the Apple App or Google Play stores or go to <https://aslms2017.gatherdigital.com/> for Blackberry, Windows, or on your computer. Attendees may then choose to access the links to view handouts electronically or to print materials on their own prior to the conference. A printed/hard copy of the Conference Program will be available at the conference registration desk for registered conference attendees.

Personal Information Made Available Through Lead Retrieval System

The name badges given to conference attendees have a barcode that is tied to the ASLMS registration database. When you allow an exhibitor to scan your badge, personal information will be available to the exhibitor and may be used to contact you after the conference. The personal information that becomes available upon scanning includes your name, title, e-mail address, employer name, and work address and telephone number.

Internet

Free wireless internet service will be available throughout the ASLMS conference rooms. This service is designed for casual users and not guaranteed.

Literature/Photography/Videotaping Policy

NO literature can be distributed during scientific sessions. **NO** photography or videotaping is permitted in educational sessions or the exhibit hall.

ASLMS reserves the right to take photos/videos at the Annual Conference and to publish them in ASLMS marketing materials. Your attendance and registration authorizes ASLMS to publish photos/videos in our publications, marketing materials and on our website. If your photo/video appears on the website or in a publication, and you prefer that we discontinue using the material, please contact our office.

Research Education Fund Ribbons and Pins

We sincerely appreciate member contributions to ASLMS research. We acknowledge members contributing to the ASLMS Research Fund with ribbons and members contributing to the Advancement of Laser Medicine Endowment Fund with pins during the conference.

Complimentary Continental Breakfasts/Breaks

Complimentary continental breakfasts and breaks will be provided to course attendees and conference attendees, Wednesday through Sunday.

Disaster Policy

In the event of an emergency situation during the Annual Conference, information will be posted on the Society's website, or via notification through the ASLMS mobile app.

Smoking

It is a policy of ASLMS and the facility that the use of tobacco products is strictly prohibited at the conference and in all areas of the exhibit hall (including setup and dismantle of exhibits). Thank you for not smoking.

Responsible Drinking Policy

With alcohol served during conference receptions, ASLMS encourages responsible drinking. In addition to alcoholic beverages, non-alcoholic options are provided. Alcohol is not served to anyone under age 21. Attendees may be asked to present their ID.

Childcare Services

Children under the age of 16 are not permitted in the exhibit hall or educational sessions. Attending parents are responsible for arranging their own childcare if needed. The Hilton San Diego Bayfront has recommended Marion's Childcare as a reliable service.

Press

Press materials are available to media online at aslms.org/about-aslms/media-center. Please contact Andrea Alstad, Marketing and Communications Manager, via email at andrea@aslms.org or by phone 715-845-9283, with media inquiries. Andrea will be available throughout the conference to offer additional information or to arrange interviews. Members of the press are invited to all courses and sessions (excludes breakfasts and luncheons); however, they must adhere to the guidelines below:

- » Members of the press must register and wear badges identifying them as media representatives.
- » Media representatives are required to schedule interviews with speakers through the Society's Marketing and Communications Manager, Andrea Alstad at andrea@aslms.org or 715-845-9283.
- » Members of the press are not permitted to ask questions at the microphones or via the mobile app during an educational session.
- » **NO** photography or videotaping is permitted in educational sessions or the exhibit hall.

THANK YOU TO THE FOLLOWING OUTSTANDING GROUP WHO VOLUNTARILY LABORED TIRELESSLY THIS YEAR TO CREATE AN OUTSTANDING CONFERENCE PROGRAM. DURING THIS CONFERENCE, THEY WILL CONTINUE TO WORK HARD TO ENSURE THAT THEIR SESSIONS RUN ON TIME AND THAT THE SPEAKERS PROVIDE APPROPRIATE DISCLOSURES OF INTEREST TO MAINTAIN OUR CURRENT CME ACCREDITATION BY THE ACCREDITATION COUNCIL FOR CONTINUING MEDICAL EDUCATION.

President and Program Chairs



KRISTEN M. KELLY, MD
ASLMS President



ARISA E. ORTIZ, MD
ASLMS 2017 Co-Chair



BERNARD CHOI, PHD
ASLMS 2017 Co-Chair



NAZANIN SAEDI, MD
ASLMS 2017 Co-Chair

Directors



MURAD ALAM, MD, MSCI
Expert Treatment Approaches



GABRIELA APIOU, PHD
Moving from the Lab to the Clinic



MACRENE R. ALEXIADES, MD, PHD
Emerging Energy-Based Device Applications in Women's Health



KENNETH A. ARNDT, MD
Expert Treatment Approaches



TINA S. ALSTER, MD
Our Favorite Laser Pearls



MARC R. AVRAM, MD
Device-Assisted Hair Restoration



JUANITA J. ANDERS, PHD
Basic Mechanisms of Photobiomodulation



MATHEW M. AVRAM, MD, JD
Non-Invasive Body Contouring



R. ROX ANDERSON, MD
Cutting Edge: Laser and Skin



TERRANCE BAKER, MD
Marketing Your Photomedicine Practice, All Creatures Great and Small



ELIOT BATTLE JR., MD
Laser Treatments for Patients of Color



ERIC F. BERNSTEIN, MD, MSE
Laser Safety in the Practice Environment



ASHISH C. BHATIA, MD, FAAD
Optimizing Patient Experience



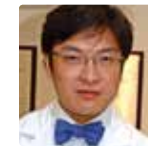
BRIAN S. BIESMAN, MD
Periorbital Therapies and Rejuvenation



JASON D. BLOOM, MD
Periorbital Therapies and Rejuvenation



JEREMY A. BRAUER, MD
Clinical Pearls to Start Your Career



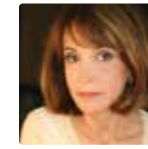
HENRY H.L. CHAN, MD, PHD, FRCP
Laser Treatments for Patients of Color



BERNARD CHOI, PHD
Moving from the Lab to the Clinic & ASLMS 2017 Greatest Hits - In Case You Missed It...



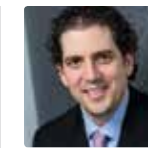
JOEL L. COHEN, MD, FAAD, FACMS
Combining Injectables with Lasers, Lights, and Energy-Based Devices



CHRISTINE C. DIERICKX, MD
Device-Based Resurfacing, Rejuvenation and Recontouring



JEFFREY S. DOVER, MD, FRCP
Expert Treatment Approaches



PAUL M. FRIEDMAN, MD
Fundamentals of Lasers in Health Care



DANIEL P. FRIEDMANN, MD
Clinical Pearls to Start Your Career



ROY G. GERONEMUS, MD
Tech Connect



RICHARD L. GODINE, DVM
Marketing Your Photomedicine Practice, All Creatures Great and Small



MICHAEL H. GOLD, MD
Neck Rejuvenation



DAVID J. GOLDBERG, MD, JD
Complications, Legal Issues, and Laser Safety



JEREMY B. GREEN, MD
Combining Injectables with Lasers, Lights, and Energy-Based Devices



NATHAN L. GUERETTE, MD, FPMRS, FACOG
Emerging Energy-Based Device Applications in Women's Health



MERETE HAEDERSDAL, MD, PHD, DMSC
Laser-Assisted Drug Delivery



H. RAY JALIAN, MD
Complications, Legal Issues, and Laser Safety



MICHAEL S. KAMINER, MD
Non-Invasive Body Contouring



KRISTEN M. KELLY, MD
Pediatric Laser Focus



SUZANNE L. KILMER, MD
Fully Ablative and Fractional Resurfacing



ANDREW C. KRAKOWSKI, MD
Pediatric Laser Focus & New Treatments for Tackling Scars



RAYMOND J. LANZAFAME, MD, MBA, FACS
Basic Mechanisms of Photobiomodulation



MARGARET W. MANN, MD
Laser and Energy-Based Treatments for Leg Veins



LAURA L. MCDERMOTT, BIS, LE, MA
Nursing/Allied Health



VINEET MISHRA, MD
Laser and Energy-Based Treatments for Leg Veins



J. STUART NELSON, MD, PHD
Cutting Edge: Laser and Skin



ARISA E. ORTIZ, MD
Energy-Based Treatments and Imaging for Skin Cancer & ASLMS 2017 Greatest Hits - In Case You Missed It...



PATRICIA A. OWENS, RN, MHA, CMLSO, CNOR
Nursing/Allied Health



E. VICTOR ROSS, MD
Neck Rejuvenation



IRIS K. RUBIN, MD
Pediatric Laser Focus



NEIL S. SADICK, MD
Device-Assisted Hair Restoration



NAZANIN SAEDI, MD
State-of-the-Art in Tattoo Treatment & ASLMS 2017 Greatest Hits - In Case You Missed It...



PETER R. SHUMAKER, MD
New Treatments for Tackling Scars



REBECCA L. SPRAGUE, RN, NP-C
Laser Safety in the Practice Environment



THANH-NGA T. TRAN, MD, PHD
Celebration of Women in Energy-Based Devices



BENJAMIN J. VAKOC, PHD
Energy-Based Treatments and Imaging for Skin Cancer



JILL S. WAIBEL, MD
Laser-Assisted Drug Delivery



ROBERT A. WEISS, MD
Laser and Energy-Based Treatments for Leg Veins



CHIH-HSUN (JASON) YANG, MD
Energy-Based Treatments of Onychomycosis



CHRISTOPHER B. ZACHARY, MBBS, FRCP
Fundamentals of Lasers in Health Care & Tech Connect



BRIAN D. ZELICKSON, MD
Device-Based Resurfacing, Rejuvenation and Recontouring

Section Chairs



RON R. ALLISON, MD
PAPDT - PDT



JUANITA J. ANDERS, PHD
Photobiomodulation/NAALT



MATHEW M. AVRAM, MD, JD
Cutaneous Applications



ASHRAF M. BADAWI, MD, PHD
ESLD Abstract Sessions



TERRANCE BAKER, MD
Photobiomodulation/NAALT



BRADLEY S. BLOOM, MD
Early Career Abstracts and Luminary Pearls



M. CRISTINA CHAVANTES, MD, PHD
Photobiomodulation/NAALT



ANDRES M. ERLENDSSON, MD, PHD
PAPDT - PDT



WALFRE FRANCO, PHD
Basic Science and Translational Research



RICHARD L. GODINE, DVM
Photobiomodulation/NAALT



MERETE HAEDERSDAL, MD, PHD, DMSC
PAPDT - PDT



MICKEY M. KARRAM, MD
Women's Health



HANS JOACHIM LAUBACH, MD
ESLD Abstract Sessions



WESLEY MOY, PHD
Early Career Abstracts and Luminary Pearls



THOMAS E. ROHRER, MD
Early Career Abstracts and Luminary Pearls



ANTHONY M. ROSSI, MD, FAAD
Early Career Abstracts and Luminary Pearls



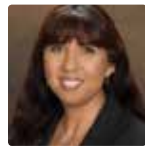
KELLY J. STANKIEWICZ, MD, FAAD
Cutaneous Applications



YONA TADIR, MD
Women's Health



EMIL A. TANGHETTI, MD
ePosters



GRACIE VARGAS, PHD
Basic Science and Translational Research



CHRISTOPHER J. WALINSKI, DDS
Laser Dental Applications

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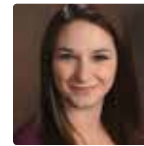
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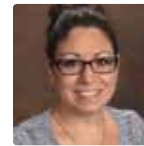
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WEDNESDAY, APRIL 5, 2017		
ACTIVITY	TIME	ROOM
Attendee Registration	7:00 AM - 5:30 PM	Hall D Pre-Function
Speaker Ready Room	7:00 AM - 5:30 PM	26 A
Continental Breakfast	7:00 AM - 8:00 AM	Hall F Pre-Function
Exhibitor Registration	1:00 PM - 5:00 PM	Hall D Pre-Function
Exhibit Hall	CLOSED	
\$ COURSE:		
Fundamentals of Lasers in Health Care (full day)	8:00 AM - 5:30 PM	31 B/C
Lunch Break (on your own)	12:00 PM - 1:00 PM	

THURSDAY, APRIL 6, 2017		
ACTIVITY	TIME	ROOM
Attendee Registration	7:00 AM - 7:30 PM	Hall D Pre-Function
Speaker Ready Room	7:00 AM - 5:30 PM	26 A
Continental Breakfast	7:00 AM - 8:00 AM	Hall F Pre-Function
Exhibitor Registration	8:00 AM - 5:00 PM	Hall D Pre-Function
Exhibit Hall	CLOSED	
\$ COURSES:		
Expert Treatment Approaches	8:00 AM - 12:00 PM	30 A/B
Pediatric Laser Focus	8:00 AM - 12:00 PM	30 C/D
Nursing/Allied Health (full day)	8:00 AM - 5:10 PM	31 B/C
Lunch Break (on your own)	12:00 PM - 1:30 PM	
\$ MASTERS LUNCHEONS:		
Energy-Based Treatments of Onychomycosis NEW	12:15 PM - 1:15 PM	25 B/C
Fully Ablative and Fractional Resurfacing	12:15 PM - 1:15 PM	29 A/B
Neck Rejuvenation	12:15 PM - 1:15 PM	29 C/D
Our Favorite Laser Pearls	12:15 PM - 1:15 PM	28 A/B
Laser Treatment for Patients of Color BACK BY REQUEST	12:15 PM - 1:15 PM	28 C/D
\$ COURSES:		
Combining Injectables with Lasers, Lights and Energy-Based Devices	1:30 PM - 5:30 PM	30 A/B
Device-Based Resurfacing, Rejuvenation and Recontouring	1:30 PM - 5:30 PM	30 C/D
FEATURE EVENT:		
Celebration of ASLMS Women in Energy-Based Devices NEW DAY	5:30 PM - 7:30 PM	28 C/D/E

FRIDAY, APRIL 7, 2017		
ACTIVITY	TIME	ROOM
Attendee Registration	6:00 AM - 7:30 PM	Hall D Pre-Function
Speaker Ready Room	6:00 AM - 7:30 PM	26 A
Continental Breakfast	6:30 AM - 8:30 AM	Hall F Pre-Function
Exhibitor Registration	8:00 AM - 5:00 PM	Hall D Pre-Function
Exhibit Hall	9:00 AM - 5:30 PM	Halls D/E
Silent Auction (bidding open)	9:00 AM - 5:30 PM	Halls D/E
\$ MASTERS BREAKFASTS:		
Device-Assisted Hair Restoration NEW	7:00 AM - 8:00 AM	29 A/B
New Treatments for Tackling Scars NEW	7:00 AM - 8:00 AM	29 C/D
Optimizing Patient Experience	7:00 AM - 8:00 AM	28 C/D
State-of-the-Art in Tattoo Treatment	7:00 AM - 8:00 AM	24 A/B
MEETING:		
ANSI SSC3 Meeting (all conference attendees invited)	7:00 AM - 8:00 AM	31 A
ABSTRACT SESSION:		
Basic Science and Translational Research NEW TIME	8:00 AM - 10:00 AM	30 A/B

Schedule and rooms subject to change without notice | \$ Fee required to attend

FRIDAY, APRIL 7, 2017		
ACTIVITY	TIME	ROOM
WORKSHOPS:		
Marketing Your Photomedicine Practice: All Creatures Great and Small NEW	8:00 AM - 10:00 AM	31 B/C
Complications, Legal Issues and Laser Safety	8:00 AM - 10:00 AM	Hall F
Emerging Energy-Based Device Applications in Women's Health NEW	8:00 AM - 10:00 AM	28 A/B
Energy-Based Treatments and Imaging for Skin Cancer NEW	8:00 AM - 10:00 AM	25 B/C
Laser-Assisted Drug Delivery	8:00 AM - 10:00 AM	30 C/D
Break - View ePosters/Visit Exhibits	10:00 AM - 10:30 AM	Halls D/E
PLENARY SESSION:		
Welcome and Introduction	10:30 AM - 12:00 PM	Hall F
Presidential Address and Citations		
Awards		
Keynote Speaker		
MEETING:		
ASLMS Business Meeting (immediately following Plenary)	12:00 PM - 12:30 PM	Hall F
Lunch Break (on your own) - View ePosters/Visit Exhibits	12:00 PM - 1:30 PM	Halls D/E
ABSTRACT SESSIONS:		
ESLD Challenging Clinical Cases/Series (with International Panel Discussion) NEW	1:30 PM - 2:45 PM	31 B/C
PAPDT - PDT	1:30 PM - 2:45 PM	30 C/D
Basic Science and Translational Research	1:30 PM - 2:45 PM	30 A/B
Cutaneous Applications	1:30 PM - 2:45 PM	Hall F
Photobiomodulation	1:30 PM - 2:45 PM	25 B/C
Break - View ePosters/Visit Exhibits	2:45 PM - 3:30 PM	Halls D/E
FEATURE EVENT:		
In the Spotlight Exhibitor Talk NEW	2:00 PM - 2:20 PM	Hall D
Ask Me Anything	3:10 PM - 3:30 PM	Hall D
In the Spotlight Exhibitor Talk NEW	3:30 PM - 3:40 PM	Hall D
ABSTRACT SESSIONS:		
Laser Dental Applications	3:30 PM - 5:15 PM	31 B/C
PAPDT - PDT	3:30 PM - 5:15 PM	30 C/D
Basic Science and Translational Research	3:30 PM - 5:15 PM	30 A/B
Cutaneous Applications	3:30 PM - 5:15 PM	Hall F
Photobiomodulation	3:30 PM - 5:15 PM	25 B/C
SPECIAL SESSION:		
Tech Connect (non-CME)	5:30 PM - 7:30 PM	Hall F

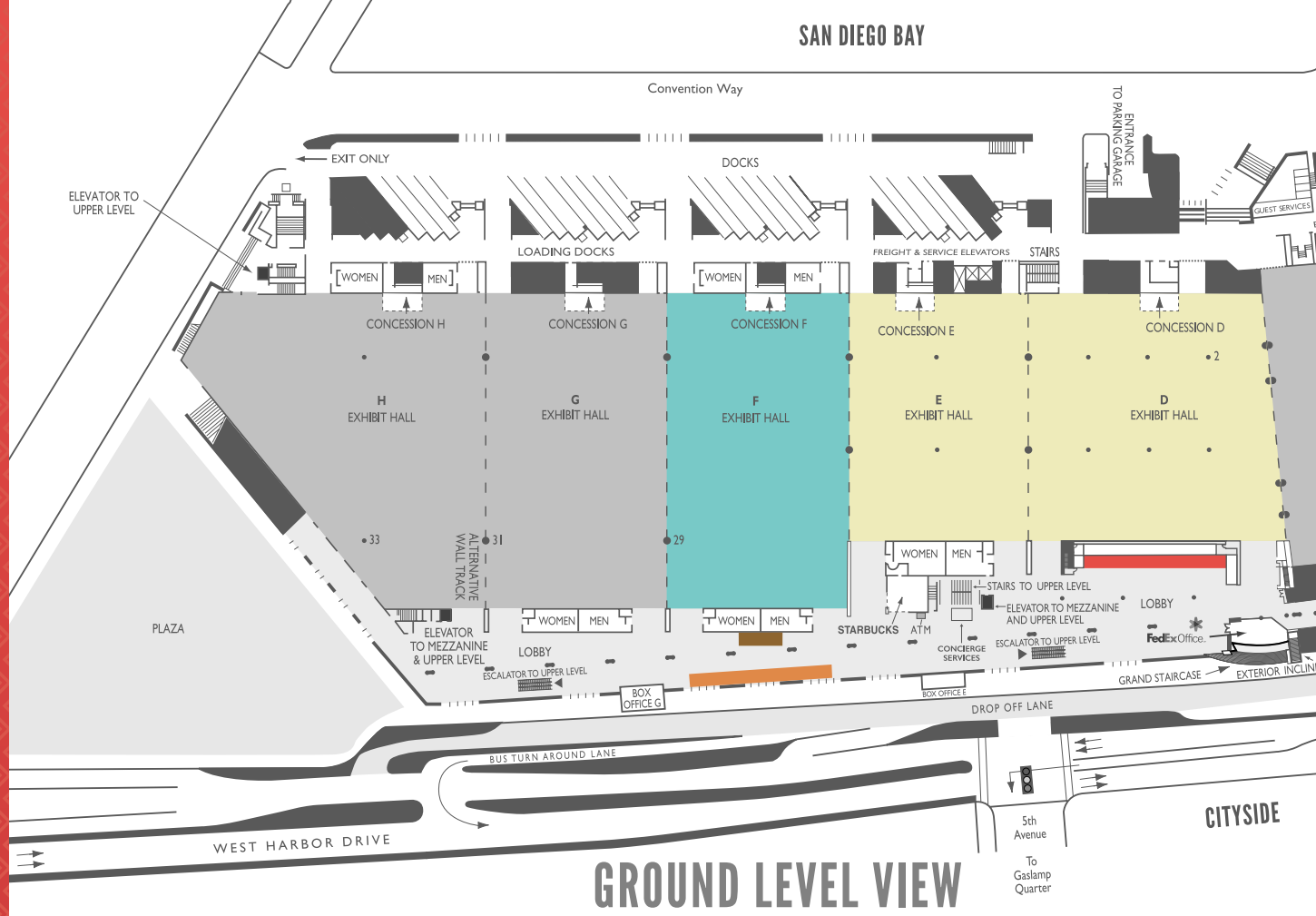
SATURDAY, APRIL 8, 2017		
ACTIVITY	TIME	ROOM
Attendee Registration	6:00 AM - 7:00 PM	Hall D Pre-Function
Speaker Ready Room	6:00 AM - 5:30 PM	26 A
Continental Breakfast	6:30 AM - 8:30 AM	Hall F Pre-Function
Exhibitor Registration	8:00 AM - 7:00 PM	Hall D Pre-Function
Exhibit Hall	9:00 AM - 7:00 PM	Halls D/E
Silent Auction (bidding open)	9:00 AM - 6:30 PM	Halls D/E
WORKSHOPS:		
Basic Mechanisms of Photobiomodulation	7:00 AM - 9:00 AM	28 A/B
Laser and Energy-Based Treatments for Leg Veins NEW	7:00 AM - 9:00 AM	25 B/C
Laser Safety in the Practice Environment	7:00 AM - 9:00 AM	30 C/D
Non-Invasive Body Contouring	7:00 AM - 9:00 AM	31 B/C
Periorbital Therapies and Rejuvenation	7:00 AM - 9:00 AM	Hall F

Schedule and rooms subject to change without notice | \$ Fee required to attend

SATURDAY, APRIL 8, 2017		
ACTIVITY	TIME	ROOM
ABSTRACT SESSION:		
Basic Science and Translational Research	8:00 AM - 9:00 AM	30 A/B
Break - View ePosters/Visit Exhibits	9:00 AM - 9:30 AM	Halls D/E
FEATURE EVENTS:		
In the Spotlight Exhibitor Talk NEW	9:30 AM - 9:50 AM	Hall D
SPECIAL SESSIONS:		
Moving from the Lab to the Clinic NEW	9:30 AM - 10:30 AM	Hall F
Cutting Edge: Laser and Skin	10:30 AM - 12:00 PM	Hall F
Lunch Break (on your own) - View ePosters/Visit Exhibits	12:00 PM - 1:30 PM	Halls D/E
SPECIAL SESSION:		
Clinical Pearls to Start your Career	1:30 PM - 5:30 PM	28 C/D/E
ABSTRACT SESSIONS:		
PAPDT - PDT	1:30 PM - 2:45 PM	30 C/D
Basic Science and Translational Research	1:30 PM - 2:45 PM	30 A/B
Cutaneous Applications	1:30 PM - 2:45 PM	Hall F
ESLD Challenging Clinical Cases/Series (with International Panel Discussion) NEW	1:30 PM - 2:45 PM	31 B/C
Women's Health	1:30 PM - 2:45 PM	28 A/B
Photobiomodulation / NAALT (Physical Medicine and Veterinary Applications)	1:30 PM - 2:45 PM	25 B/C
Break - View ePosters/Visit Exhibits	2:45 PM - 3:30 PM	Halls D/E
FEATURE EVENT:		
Ask Me Anything	3:10 PM - 3:30 PM	Hall D
ABSTRACT SESSIONS:		
PAPDT - PDT	3:30 PM - 5:30 PM	30 C/D
Basic Science and Translational Research	3:30 PM - 5:30 PM	30 A/B
Cutaneous Applications	3:30 PM - 5:30 PM	Hall F
Women's Health EXTENDED TIME	3:30 PM - 5:30 PM	28 A/B
Photobiomodulation / NAALT (Physical Medicine and Veterinary Applications)	3:30 PM - 5:30 PM	25 B/C
FEATURE EVENTS:		
Exhibitor Reception / Silent Auction with "A Tribute to Fitz"	5:30 PM - 7:00 PM	Halls D/E
Early Career Reception	7:30 PM - 9:00 PM	Hilton-Elevation Room

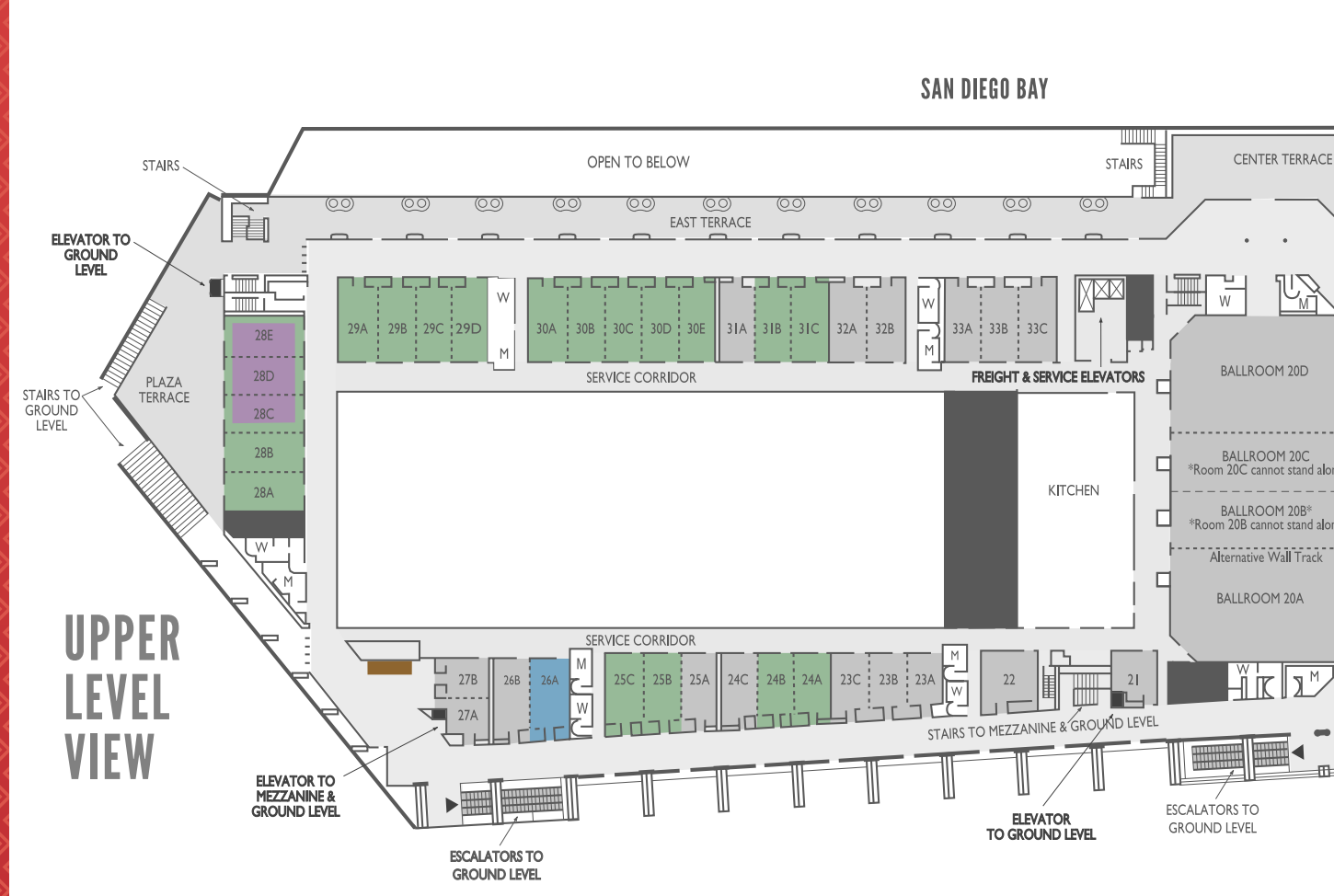
SUNDAY, APRIL 9, 2017		
ACTIVITY	TIME	ROOM
Attendee Registration	6:30 AM - 11:30 AM	Hall D Pre-Function
Speaker Ready Room	6:30 AM - 11:30 AM	26 A
Continental Breakfast	6:30 AM - 8:00 AM	Hall F Pre-Function
Exhibitor Registration	CLOSED	
Exhibit Hall	CLOSED	
ABSTRACT SESSIONS:		
Cutaneous Applications	7:00 AM - 10:30 AM	Hall F
Early Career Abstracts and Luminary Pearls	7:10 AM - 10:30 AM	30 C/D
ESLD - Laser and EBD Medicine for Breast Cancer Patients NEW	7:30 AM - 10:30 AM	30 A/B
Panel Discussion: ASLMS - New Beginnings Radiation Mark Removal and ESLD - Chronic Radiation Dermatitis Treatment Program	7:30 AM - 10:30 AM	30 A/B
SPECIAL SESSION:		
ASLMS 2017 Greatest Hits - In Case You Missed It...	10:30 AM - 11:30 AM	Hall F

Schedule and rooms subject to change without notice | \$ Fee required to attend



- **Hall F**
COMPLICATIONS, LEGAL ISSUES AND LASER SAFETY
 » Friday, April 7 | 8:00 AM - 10:00 AM
PLENARY SESSION
 » Friday, April 7 | 10:30 AM - 12:00 PM
ASLMS BUSINESS MEETING (MEMBERS ONLY)
 » Friday, April 7 | 12:00 PM - 12:30 PM
CUTANEOUS APPLICATIONS
 » Friday, April 7 | 1:30 PM - 2:45 PM, 3:30 PM - 5:15 PM
 » Saturday, April 8 | 1:30 PM - 2:45 PM, 3:30 PM - 5:30 PM
 » Sunday, April 9 | 7:00 AM - 10:30 AM
TECH CONNECT
 » Friday, April 7 | 5:30 PM - 7:30 PM
PERIORBITAL THERAPIES AND REJUVENATION
 » Saturday, April 8 | 7:00 AM - 9:00 AM
MOVING FROM THE LAB TO THE CLINIC
 » Saturday, April 8 | 9:30 AM - 10:30 AM
CUTTING EDGE: LASER AND SKIN SESSION
 » Saturday, April 8 | 10:30 AM - 12:00 PM
ASLMS 2017 GREATEST HITS - IN CASE YOU MISSED IT...
 » Sunday, April 9 | 10:30 AM - 11:30 AM

- **Hall F Pre-function**
CONTINENTAL BREAKFAST
 » Wednesday, April 5 | 7:00 AM - 8:00 AM
 » Thursday, April 6 | 7:00 AM - 8:00 AM
 » Friday, April 7 | 6:30 AM - 8:30 AM
 » Saturday, April 8 | 6:30 AM - 8:30 AM
 » Sunday, April 9 | 6:30 AM - 8:00 AM
 Note: Continental Breakfast on Thursday will be available in each course room.
- **Hall D Pre-function**
ATTENDEE REGISTRATION
 » Wednesday, April 5 | 7:00 AM - 5:30 PM
 » Thursday, April 6 | 7:00 AM - 7:30 PM
 » Friday, April 7 | 6:00 AM - 7:30 PM
 » Saturday, April 8 | 6:00 AM - 7:00 PM
 » Sunday, April 9 | 6:30 AM - 11:30 AM
EXHIBITOR REGISTRATION
 » Wednesday, April 5 | 1:00 PM - 5:00 PM
 » Thursday, April 6 | 8:00 AM - 5:00 PM
 » Friday, April 7 | 8:00 AM - 5:00 PM
 » Saturday, April 8 | 8:00 AM - 7:00 PM



- **Halls D/E**
EXHIBITS & EPOSTERS
 » Friday, April 7 | 9:00 AM - 5:30 PM
 » Saturday, April 8 | 9:00 AM - 7:00 PM
IN THE SPOTLIGHT (HALL D)
 » Friday, April 7 | 9:00 AM - 2:20 AM | Allergan
 » Friday, April 7 | 2:00 PM - 2:20 PM | Perigee Medical, LLC
 » Friday, April 7 | 3:30 PM - 3:50 PM | Solta Medical
 » Saturday, April 8 | 9:00 AM - 9:20 AM | Merz North America
 » Saturday, April 8 | 9:30 AM - 9:50 AM | Perigee Medical, LLC
ASK ME ANYTHING (HALL D)
 » Friday, April 7 | 3:10 PM - 3:30 PM | Hall D | Robert A. Weiss, MD and Tina S. Alster, MD
 » Saturday, April 8 | 3:10 PM - 3:30 PM | Hall D | Eric F. Bernstein, MD, MSE and Suzanne L. Kilmer, MD
EXHIBITOR RECEPTION
 » Saturday, April 8 | 5:30 PM - 7:00 PM
SILENT AUCTION
 » Friday, April 7 | 9:00 AM - 5:30 PM
 » Saturday, April 8 | 9:00 AM - 6:30 PM - Winners announced shortly after bidding closes

- **Rooms 24 A/B, 25 B/C, 28 A/B/C/D/E, 29 A/B/C/D, 30 A/B/C/D/E, 31 B/C**
WORKSHOP, COURSE, SESSION ROOMS
- **Rooms 28 C/D/E**
CELEBRATION OF ASLMS WOMEN IN ENERGY-BASED DEVICES
 » Thursday, April 6 | 5:30 PM - 7:30 PM
- **Room 26 A**
SPEAKER READY ROOM
 » Wednesday, April 5 | 7:00 AM - 5:30 PM
 » Thursday, April 6 | 7:00 AM - 5:30 PM
 » Friday, April 7 | 6:00 AM - 7:30 PM
 » Saturday, April 8 | 6:00 AM - 5:30 PM
 » Sunday, April 9 | 6:30 AM - 11:30 AM
- **Self-serve CME Stations**
 Not on Map
Hilton San Diego Bayfront Elevation Room - 30th Floor
EARLY CAREER RECEPTION
 » Saturday, April 8 | 7:30 PM - 9:00 PM

Fundamentals of Lasers in Health Care - Course

Wednesday, April 5 | 8:00 AM - 5:30 PM | Room: 31 B/C

AMA PRA CATEGORY 1 CME CREDITS: 8.00 MAX | CE CONTACT HOURS: 9.50 MAX

Educational Needs To provide participants with a basic understanding of lasers and other light energy based technology and their use in clinical aesthetic applications

Participants Any physician or clinician who currently is using or investigating using lasers in their practice.

Background Requirements Minimal background and experience in the field of laser and other light-based technology and their application in health care.

Instructional Content/Expected Learning Objectives

- » Understand the biophysics pertinent to the application of lasers and other light-based energy devices and related technology, and be prepared to apply this same understanding related to the provision of patient care.
- » Understand the working parts of a laser and other light-based devices.
- » Understand the interaction and implications of using lasers and other light-based devices and related technologies on human tissues and be capable of using this knowledge in the provision of patient care.
- » Be familiar with a broad array of lasers and light-based devices used in the provision of health care procedures and be capable of determining which laser and/or light-based technology is most appropriately used for particular clinical procedures.
- » Be introduced to the interactions of lasers and other light emitting devices and popular non device skin interventions (i.e., muscle relaxers and fillers, etc).
- » Understand the safety risks to providers and patients associated with the use of lasers and related technology, and understand and be capable of using this knowledge to practice the safety necessary to provide a safe environment for all providers and patients.
- » Have sufficient exposure to a cross-section of clinical applications such that they are capable of using this knowledge to discern the clinical applications for which they may or may not choose to develop specific laser application skills.

Director(s) Paul M. Friedman MD; Christopher B. Zachary MBBS, FRCP

Faculty R. Rox Anderson, MD; Mathew M. Avram, MD; Eric F. Bernstein, MD; Christine C. Dierickx, MD; Merete Haedersdal, MD; Stefani Kappel, MD; Kristen M. Kelly, MD; Girish S. Munavalli, MD, MHS; Arisa E. Ortiz, MD; E. Victor Ross, MD; Nazanin Saedi, MD; Fernanda H. Sakamoto, MD PhD; Jill S. Waibel, MD

TIME	ACTIVITY
8:00 AM - 8:04 AM	Introduction and Pre-Test
8:05 AM - 8:35 AM	Biophysics Principles of Lasers and Related Technologies - E. Victor Ross
8:36 AM - 9:06 AM	Overview Of Light Based Energy Interaction with Human Tissue - R. Rox Anderson
9:07 AM - 9:37 AM	Lasers and Other Light Energy Devices - Arisa E. Ortiz
9:38 AM - 10:08 AM	Laser Safety - Eric F. Bernstein
10:09 AM - 10:23 AM	BREAK
10:24 AM - 10:54 AM	Laser Treatment of Vascular Lesions and Pediatric Lasers - Kristen M. Kelly
10:55 AM - 11:25 AM	Tattoos, Pigmented Lesions and Ethnic Skin - Paul M. Friedman
11:26 AM - 11:56 AM	Laser Hair Removal - Stefani Kappel
11:57 AM - 12:45 PM	LUNCH (complimentary box lunch provided)

TIME	ACTIVITY
12:46 PM - 1:16 PM	Fraxel Photothermolysis: Ablative and Non-Ablative - Christopher B. Zachary
1:17 PM - 1:47 PM	Treatment of Scars - Jill S. Waibel
1:48 PM - 2:18 PM	Laser Assisted Drug Delivery - Merete Haedersdal
2:19 PM - 2:49 PM	PDT: The State of the Art - Fernanda H. Sakamoto
2:50 PM - 3:04 PM	BREAK
3:05 PM - 3:35 PM	Non-Invasive Body Contouring and Skin Tightening - Girish S. Munavalli
3:36 PM - 4:06 PM	Devices, Parameters, Outcomes - Christine C. Dierickx
4:07 PM - 4:37 PM	Video Demonstration of Treatment End Points - Nazanin Saedi
4:38 PM - 5:08 PM	Addressing Complications of Laser Procedures - Mathew M. Avram
5:09 PM - 5:30 PM	Q&A, Conclusion and Post-Test

Expert Treatment Approaches - Course

Thursday, April 6 | 8:00 AM - 12:00 PM | Room: 30 A/B

AMA PRA CATEGORY 1 CME CREDITS: 3.75 MAX | CE CONTACT HOURS: 4.50 MAX

Educational Needs Laser and energy-based surgery is a rapidly changing field with many new devices coming out every year. Aside from this, there is a very specific art in how and when to use these devices. While most training programs offer hands-on experience with a variety of devices, the objective of this activity is to have leading experts give their results in using specific techniques and protocols treating the most difficult conditions.

Participants This activity is designed for physicians, nurses, nurse practitioners and others who have experience in treating patients with laser and energy-based devices.

Background Requirements Attendees should have a strong working knowledge of lasers and energy-based devices.

Instructional Content/Expected Learning Objectives It is expected that participants in this activity will identify gaps in their knowledge, competence or performance in treating specific conditions such as scars, melasma, hyperhidrosis, cellulite and pigmented lesions and using lasers and/or energy-based devices in unique ways, such as the use of lasers to enhance wound healing

Director(s) Murad Alam, MD, MSCI; Kenneth A. Arndt, MD; Jeffrey S. Dover, MD, FRCPC

Faculty Ashish C. Bhatia, MD, FAAD; Jeremy A. Brauer, MD; Anne M. Chapas, MD; Shraddha Desai, MD; Heather Hamilton, MD; Emily C. Keller, MD; Shilpi Khetarpal, MD; Laura Kruter, MD; Jennifer L. MacGregor, MD; Laurel M. Morton, MD; Deanne Mraz-Robinson, MD; Rachel N. Pritzker, MD; FAAD; Nazanin Saedi, MD; Mara C. Weinstein Velez, MD

TIME	ACTIVITY
8:00 AM - 8:04 AM	Introduction and Pre-Test
8:05 AM - 8:24 AM	Microneedling vs Lasers For Lines & Scars - Mara C. Weinstein Velez
8:25 AM - 8:44 AM	Are Picosecond Lasers Really Better Than Nanosecond Lasers? - Nazanin Saedi
8:45 AM - 9:04 AM	To Sweat or Not to Sweat?: Approaches with Energy Devices - Heather Hamilton; Rachel N. Pritzker
9:05 AM - 9:14 AM	Q&A
9:15 AM - 9:34 AM	What's New in Fractional Lasers? - Ashish C. Bhatia
9:35 AM - 9:54 AM	Radio Frequency Skin Tightening - Anne M. Chapas; Laura Kruter
9:55 AM - 10:14 AM	Is One Vascular Laser or System Really More Effective Than Any Of The Others? - Jeremy A. Brauer
10:15 AM - 10:24 AM	Q&A
10:25 AM - 10:40 AM	BREAK
10:41 AM - 10:56 AM	Non-Invasive Body Contouring & Cellulite - Shraddha Desai; Deanne Mraz-Robinson
10:57 AM - 11:12 AM	Submental Fullness: Cold vs Heat vs Injections - Jennifer L. MacGregor
11:13 AM - 11:28 AM	Scars 2017 - Shilpi Khetarpal
11:29 AM - 11:44 AM	Top 10 Laser/Light/Energy Complications - Emily C. Keller; Laurel M. Morton
11:45 AM - 11:55 AM	Q&A
11:56 AM - 12:00 PM	Conclusion and Post-Test

Pediatric Laser Focus - Course

Thursday, April 6 | 8:00 AM - 12:00 PM | Room: 30 C/D

AMA PRA CATEGORY 1 CME CREDITS: 3.75 MAX | CE CONTACT HOURS: 4.50 MAX

Educational Needs The educational needs are to advance the science and collaboration surrounding pediatric laser medicine; provide education in regards to the safe and effective clinical use of laser and energy devices as they relate to children's health; and involve residents and trainees in pediatric laser education. These objectives will be accomplished through didactic lectures, an expert panel, and conversation with attendees.

Participants This focus workshop is open to all designated participants that may be interested in the use of laser and energy devices as they specifically relate to children's health.

Background Requirements This focus workshop is open to all designated participants that may be interested in the use of laser and energy devices as they specifically relate to children's health.

Instructional Content/Expected Learning Objectives Attendees of the workshop will develop a better understanding of options for pediatric procedural care. They will be better able to select appropriate laser and energy device therapies for specific pediatric problems, be better able to anticipate, prevent, and manage adverse events associated with pediatric laser treatments, and collaborate with patients and caregivers to develop treatment plans that meet the specific physical and emotional needs of children. Gaps in attendees' knowledge and performance will be identified, and the information presented at the workshop will be used to help improve pediatric clinical outcomes by anticipating and reducing possible complications. The specific nature of this workshop provides unique opportunities for cross-fertilization of shared ideas by attendees that may help lead to clinical breakthroughs in the field of pediatric procedural care.

Director(s) Kristen M. Kelly, MD; Andrew C. Krakowski, MD, PhD; Iris Rubin, MD

Faculty R. Rox Anderson, MD; Lawrence F. Eichenfield, MD; Michael Nemergut, MD; E. Victor Ross, MD

TIME	ACTIVITY
8:00 AM - 8:05 AM	Introduction and Pre-Test
8:06 AM - 8:26 AM	Why Lasing Kids is Different - Lawrence F. Eichenfield
8:27 AM - 8:31 AM	Q&A
8:32 AM - 9:02 AM	Panel Discussion: Vascular Lesion Intro & Case Presentations - Kristen M. Kelly; Iris Rubin; Andrew C. Krakowski
9:03 AM - 9:08 AM	Q&A
9:09 AM - 9:39 AM	Panel Discussion: Pigmented Lesions Intro & Case Presentations - Kristen M. Kelly; Iris Rubin; Andrew C. Krakowski
9:40 AM - 10:00 AM	Anesthesia - Michael Nemergut
10:01 AM - 10:06 AM	Q&A
10:07 AM - 10:22 AM	BREAK
10:23 AM - 10:33 AM	Why I Don't Like Treating Kids - E. Victor Ross
10:34 AM - 10:39 AM	Q&A
10:40 AM - 11:10 AM	Panel Discussion: Scar Treatment Intro & Case Presentations - Kristen M. Kelly; Iris Rubin; Andrew C. Krakowski
11:11 AM - 11:16 AM	Q&A
11:17 AM - 11:32 AM	Panel Discussion: Laser Hair Removal Intro & Case Presentations - Kristen M. Kelly; Iris Rubin; Andrew C. Krakowski
11:33 AM - 11:38 AM	Q&A
11:39 AM - 11:55 AM	On the Horizon - R. Rox Anderson
11:56 AM - 12:00 PM	Conclusion and Post-Test

Nursing/Allied Health - Course

Thursday, April 6 | 8:00 AM - 5:10 PM | Room: 31 B/C

CE CONTACT HOURS: 8.5 MAX

Educational Needs

- » The activity is designed to offer an interactive forum for the exchange of clinical information pertaining to new and established energy-based technology.
- » This activity will explore the collaborative roles of Nursing/Allied Health personnel in providing optimum patient care utilizing evidence based standards of practice.
- » This activity will explain the safety regulations and controls for the use of lasers and energy based devices in a variety of clinical settings

Participants The activity is designed for nurses, clinicians, and other allied health professionals who use laser, light and other energy-based technologies.

Background Requirements Attendees should possess a basic understanding of laser, light and energy-based technologies for cutaneous applications.

Instructional Content/Expected Learning Objectives After this session, attendees should:

- » Establish a sound understanding of the principles of lasers and other energy based devices.
- » Learn the role of the Laser Safety Officer (LSO) and how to achieve safety compliance in the workplace.
- » Understand the national and state regulations and non-governmental controls that can influence one's clinical practice.
- » Discover the latest technological application of lasers energy based devices in the surgical and aesthetic fields.
- » Gain an understanding of the biophysical mechanisms surrounding the use of low light therapy.

Director(s) Laura L. McDermott, BIS, LE, MA; Patricia A. Owens, RN, MHA, CMLSO, CNOR

Faculty Kathy M. Anderson, MD; Natalie M. Curcio, MD; Richard P. Felten; John E. Hoopman, CMLSO; Raymond J. Lanzafame, MD, MBA, FACS; David H. McDaniel, MD; Natasha Mesinkovska, MD; Leslie J. Pollard, BSMT, LEOT; E. Victor Ross, MD; Penny J. Smalley, RN; Rebecca L. Sprague, RN, NP-C; Mary Stoll, AS, BS; Jill S. Waibel, MD; Christopher B. Zachary, MD

TIME	ABSTR	ACTIVITY
8:00 AM - 8:05 AM		Introduction
8:06 AM - 8:15 AM		Nursing / Allied Health Information Session - Mary Stoll
8:16 AM - 8:37 AM		Selective Photothermolysis / Maximizing Your Outcomes - John E. Hoopman
8:38 AM - 9:00 AM		Laser Safety Officer (LSO) Role and ANSI Z13.6 Update - Raymond J. Lanzafame
9:01 AM - 9:20 AM		Laser Plume / Smoke, One Voice Advocacy - Penny J. Smalley
9:21 AM - 9:40 AM		FDA Medical Devices: What Is That All About? - Richard P. Felten
9:41 AM - 10:00 AM		Post Laser/Light Patient Management and Care - Rebecca J. Sprague
10:01 AM - 10:15 AM		Q&A
10:16 AM - 10:30 AM		BREAK
10:31 AM - 10:50 AM		The Coming of Age: An Insight Into Laser Technology in Medicine Today - Leslie J. Pollard
10:51 AM - 11:15 AM		Feminine Rejuvenation - Kathy M. Anderson
11:16 AM - 11:35 AM		Skin Care Revolution - Natalie M. Curcio

TIME	ABSTR	ACTIVITY
11:36 AM - 11:50 AM		Needling and Hair Rejuvenation - Natasha Mesinkovska
11:51 AM - 12:00 PM		Q&A
12:01 PM - 1:29 PM		LUNCH
1:30 PM - 1:50 PM		Excellence in Laser Nursing/Allied Health Award Recipient: Ingredients: From Nutrition to Topicals - Laura L. McDermott
1:51 PM - 2:10 PM		Picosecond Technology For Tattoos, Rejuvenation, Pigmentation - E. Victor Ross
2:11 PM - 2:30 PM		Laser Assisted Drug Delivery With Fractional Lasers - Jill S. Waibel
2:31 PM - 2:50 PM		Different Angles Of Body Contouring, Reduction And Cellulite - Christopher B. Zachary
2:51 PM - 3:10 PM		Overview / Research With Low-Level Light Therapy - David H. McDaniel
3:11 PM - 3:20 PM		Q&A
3:21 PM - 3:36 PM		BREAK
ABSTRACTS AND CASE STUDIES		
3:37 PM - 3:46 PM	126	Best of Nursing/Allied Health Session Award Recipient: NURSING CONSIDERATIONS FOR ULTRASOUND TECHNOLOGIES Shannon Hernandez★, Anne Chapas Union Square Laser Dermatology, New York, NY
3:47 PM - 3:56 PM	127	ADJUNCTIVE TOPICAL AGENTS IN LASER THERAPY Tamara Ammon★, Iwona Drazila, Tracy Ovtcharov, Clare McGrath, Hana Jeon, Daniel Belkin, Roy Geronemus Laser & Skin Surgery Center of New York, New York, NY
3:57 PM - 4:06 PM	128	EVALUATION OF EFFECTIVENESS OF LASER ACUPUNCTURE ON OSTEOARTHRITIS KNEE PAIN - RANDOMISED, DOUBLE BLINDED, PLACEBO-CONTROLLED TRIAL Meikin Rees★→, Peter Meier, James Brown University of Technology Sydney, Sydney, New South Wales, Australia
4:07 PM - 4:16 PM	129	NURSING CONSIDERATIONS FOR PHOTOGRAPHY Katherine Corradini★, Anne Chapas, Jennifer MacGregor Union Square Laser Dermatology, New York, NY
4:17 PM - 4:26 PM	130	SCAR TREATMENTS UTILIZING LASERS AND RELATED TECHNOLOGIES Tracy Ovtcharov★, Iwona Drazila, Tamara Ammon, Clare McGrath, Daniel Belkin, Hana Jeon, Roy Geronemus Laser & Skin Surgery Center of New York, New York, NY
4:27 PM - 4:36 PM	131	ADVANCED ANESTHESIA TECHNIQUES FOR LASER PROCEDURES Clare McGrath★, Tracy Ovtcharov, Iwona Drazila, Tamara Ammon, Daniel Belkin, Hana Jeon, Roy Geronemus Laser & Skin Surgery Center of New York, New York, NY
4:37 PM - 4:46 PM	132	THE USE OF NAIL SURGERY AND LOW-LEVEL LASER FOR THE TREATMENT OF STUBBORN FUNGAL NAIL INFECTION - CASE STUDY Marion Yau★, Win Leung Siu University of Portsmouth, London, United Kingdom
4:47 PM - 4:58 PM		Q&A
4:59 PM - 5:10 PM		Conclusion and Evaluation

Energy-Based Treatments of Onychomycosis - Luncheon

Thursday, April 6 | 12:15 PM - 1:15 PM | Room: 25 B/C

AMA PRA CATEGORY 1 CME CREDITS: 1.00 MAX | CE CONTACT HOURS: 1.00 MAX

Educational Needs This session will review and highlight the latest pre-clinical and clinical applications of laser devices in nail fungal infection.

Participants Dermatologists, family physicians, podiatrists and health-care professionals who are interested in nail fungal infection treatment.

Background Requirements Participants should have basic laser knowledge.

Instructional Content/Expected Learning Objectives After the sessions, audience will be able to know the available nail laser devices, their current clinical results and limitations.

Director(s) Chih-hsun (Jason) Yang, MD

Faculty Aditya K. Gupta, MD; Keyvan Nouri, MD

TIME	ACTIVITY
12:15 PM - 12:20 PM	Introduction and Pre-Test
12:21 PM - 12:35 PM	Laser and Light Therapy for Onychomycosis: A Systematic Review - Keyvan Nouri
12:36 PM - 1:00 PM	Strategies to Improve Onychomycosis Cure Rate: Combination of New Antifungal Agents and Energy-Based Devices - Aditya K. Gupta
1:01 PM - 1:09 PM	Panel Discussion with Q&A - Chih-hsun Yang
1:10 PM - 1:15 PM	Conclusion and Post-Test

Fully Ablative and Fractional Resurfacing - Luncheon

Thursday, April 6 | 12:15 PM - 1:15 PM | Room: 29 A/B

AMA PRA CATEGORY 1 CME CREDITS: 1.0 MAX | CE CONTACT HOURS: 1.00 MAX

Educational Needs This activity addresses the educational needs of physicians who are treating patients with fractional technology. Fractional CO₂, non-ablative fractional and fractional erbium ablative will be discussed. The need to understand more advanced techniques will be the focus of this course with a heavy emphasis on clinical applications and treatment techniques and tips.

Participants The ideal participant has some experience with fractional resurfacing; however, physicians with moderate laser experience would be welcome as they explore the possible indications and contraindications of fractional resurfacing.

Background Requirements There are no specific background requirements. This activity is open to anyone interested in fractional resurfacing, despite their experience; however, the focus is on a more moderate to advanced conversation.

Instructional Content/Expected Learning Objectives The content will emphasize fully ablative and fractional ablative resurfacing with some discussion on non-ablative fractional techniques. Standard and advanced techniques for various entities including cosmetic indications, scars, and various dermatologic conditions will be discussed. Please note that there are other activities that deal with fractional resurfacing specifically for the treatment of scars in a very advanced manner, and this activity discusses scar treatment in a more global focus. A heavy emphasis on clinical training with tips and tricks and specific energy settings will be discussed during this course.

Director(s) Suzanne L. Kilmer, MD

Faculty A. Jay Burns, MD

TIME	ACTIVITY
12:15 PM - 12:20 PM	Introduction and Pre-Test
12:21 PM - 1:04 PM	Fully Ablative and Fractional Resurfacing - Suzanne L. Kilmer; A. Jay Burns
1:05 PM - 1:15 PM	Q&A, Conclusion and Post-Test

Neck Rejuvenation - Luncheon

Thursday, April 6 | 12:15 PM - 1:15 PM | Room: 29 C/D

AMA PRA CATEGORY 1 CME CREDITS: 1.00 MAX | CE CONTACT HOURS: 1.00 MAX

Educational Needs

- » There are multiple invasive and non-invasive techniques for neck rejuvenation. Providers should be knowledgeable about these interventions.
- » The anatomy of the neck is complex and a knowledge of its layers is necessary to optimize outcomes.
- » The neck is just one part of a larger facial-neck-chest unit. Providers should know how these units interact with each other in any rejuvenation process.

Participants Any provider with plans of integrating neck rejuvenation techniques into their practice.

Background Requirements

- » A rudimentary knowledge of neck anatomy.
- » A knowledge of light and other energy-based technologies and their interactions in the skin.
- » A knowledge of anesthesia and the skin.

Instructional Content/Expected Learning Objectives After this course, attendees should be able to:

- » Design effective neck rejuvenation plans for tightening, texture, color and contour.
- » Identify the proper candidates for particular neck rejuvenation procedures.
- » Identify the risks of particular neck rejuvenation procedures.

Director(s) Michael H. Gold, MD; E. Victor Ross, MD

Faculty Jason N. Pozner, MD

TIME	ACTIVITY
12:15 PM - 12:20 PM	Introduction and Pre-Test
12:21 PM - 12:36 PM	Anatomical Considerations in Neck Rejuvenation - Jason N. Pozner
12:37 PM - 12:52 PM	Non-Invasive Interventions for the Neck Including: Fractional Laser, HIFU, Cryolipolysis, Fillers and Neuromodulators - Michael H. Gold
12:53 PM - 1:08 PM	Non-Invasive Interventions for the Neck Including: RF Needles, Motion RF Techniques, Cannula Based RF / Laser Heating and Visible Light - E. Victor Ross
1:09 PM - 1:15 PM	Q&A, Conclusion and Post-Test

Our Favorite Laser Pearls - Luncheon

Thursday, April 6 | 12:15 PM - 1:15 PM | Room: 28 A/B

AMA PRA CATEGORY 1 CME CREDITS: 1.00 MAX | CE CONTACT HOURS: 1.00 MAX

Educational Needs This luncheon will provide participants with knowledge of how to optimize patient outcomes by selecting the most appropriate device or technique for a given indication, refining treatment parameters and using appropriate pre- and post-operative skin care.

Participants This luncheon is designed for experienced dermatologists and plastic surgeons using lasers for cutaneous applications and are seeking to optimize their therapeutic results.

Background Requirements Participants should be familiar with the use of lasers for cutaneous applications.

Instructional Content/Expected Learning Objectives At the conclusion of the luncheon, participants will have a better understanding of how to improve their results and minimize their complications in laser treatment of vascular and pigmented lesions, laser resurfacing, and photodynamic therapy.

Director(s) Tina S. Alster, MD

Faculty Jeffrey S. Dover, MD, FRCPC; Arisa E. Ortiz, MD

TIME	ACTIVITY
12:15 PM - 12:20 PM	Introduction and Pre-Test
12:21 PM - 12:36 PM	Pearls - Tina S. Alster
12:37 PM - 12:52 PM	Pearls - Jeffrey S. Dover
12:53 PM - 1:08 PM	Pearls - Arisa E. Ortiz
1:09 PM - 1:15 PM	Q&A, Conclusion and Post-Test

Laser Treatment for Patients of Color- Luncheon

Thursday, April 6 | 12:15 PM - 1:15 PM | Room: 28 C/D

AMA PRA CATEGORY 1 CME CREDITS: 1.00 MAX | CE CONTACT HOURS: 1.00 MAX

Educational Needs This activity will review laser techniques and skills to improve efficacy and safety of laser treatments on patients of color.

Participants This activity is designed for doctors, PAs, nurses and laser practitioners who treat or plan on treating patients of color.

Background Requirements Practitioners should have basic clinical laser skills and training.

Instructional Content/Expected Learning Objectives The activity will cover appropriate treatment choices when treating patients of color, including appropriate laser selection, laser parameters, pre- and post-treatment care, appropriate patient selection, and management of adverse events.

Director(s) Eliot F. Battle Jr., MD; Henry H.L. Chan, MD, PhD, FRCP

Faculty Andrew F. Alexis, MD; Paul M. Friedman, MD; Taro Kono, MD

TIME	ACTIVITY
12:15 PM - 12:20 PM	Introduction and Pre-Test
12:21 PM - 12:31 PM	Skin Rejuvenation Laser Treatments on Skin of Color: My Approach - Andrew F. Alexis
12:32 PM - 12:42 PM	Vascular Laser Treatment on Skin of Color: My Approach - Taro Kono
12:43 PM - 12:53 PM	Laser Treatment for Congenital or Acquired Pigmentary Lesions - Henry H.L. Chan
12:54 PM - 1:04 PM	Laser Treatment to Improve Complexion and Texture on Skin of Color: My Approach - Paul M. Friedman
1:05 PM - 1:15 PM	Q&A, Conclusion and Post-Test

Combining Injectables with Lasers, Lights and Energy-Based Devices - Course

Thursday, April 6 | 1:30 PM - 5:30 PM | Room: 30 A/B

AMA PRA CATEGORY 1 CME CREDITS: 3.75 MAX | CE CONTACT HOURS: 4.50 MAX

Educational Needs This activity is designed to provide information on how to safely and successfully combine aesthetic procedures on the forehead, periocular area, mid-face, perioral, submental/jawline, neck/chest and hands. Energy-based modalities such as laser, radiofrequency, microfocused ultrasound among others will be discussed.

Participants The target audience includes dermatologists, and laser surgeons who already have a well-developed basic understanding of the uses of lasers and are looking for advanced techniques on how to combine treatments.

Background Requirements Participants should already be familiar with the use of toxins and fillers.

Instructional Content/Expected Learning Objectives At the conclusion of the session, physicians will be able to evaluate specific anatomic locations to assess the potential combination of procedures that can be utilized synergistically for safe and superior results.

Director(s) Joel L. Cohen, MD, FAAD, FACMS; Jeremy B. Green, MD

Faculty Brian S. Biesman, MD; Suzanne L. Kilmer, MD; Melanie Palm, MD, FAAD, FAACS; Jason N. Pozner, MD; Neil S. Sadick, MD; Douglas Wu, MD, PhD

TIME	ACTIVITY
1:30 PM - 1:35 PM	Introduction and Pre-Test
1:36 PM - 1:56 PM	Overview of Modalities and Mechanisms of Action - Jeremy B. Green
1:57 PM - 2:17 PM	Forehead - Jason N. Pozner
2:18 PM - 2:38 PM	Periocular Area - Brian S. Biesman
2:39 PM - 2:44 PM	Q&A
2:45 PM - 3:29 PM	BREAK
3:30 PM - 3:50 PM	Mid-face - Melanie Palm
3:51 PM - 4:11 PM	Perioral - Joel L. Cohen
4:12 PM - 4:32 PM	Submental/Jawline - Suzanne L. Kilmer
4:33 PM - 4:53 PM	Decollete - Douglas Wu
4:54 PM - 5:14 PM	Hands - Neil S. Sadick
5:15 PM - 5:25 PM	Q&A
5:26 PM - 5:30 PM	Conclusion and Post-Test

Device-Based Resurfacing, Rejuvenation and Recontouring - Course

Thursday, April 6 | 1:30 PM - 5:30 PM | Room: 30 C/D

AMA PRA CATEGORY 1 CME CREDITS: 3.75 MAX | CE CONTACT HOURS: 4.50 MAX

Educational Needs The objectives of this activity will be to present real and objective data on the devices and optimal techniques available for facial rejuvenation and body contouring.

Participants This activity is aimed at physicians who wish to enhance their understanding of best practice methods in rejuvenation and body contouring.

Background Requirements The prospective participant should ideally have a working understanding of the types of devices used in skin rejuvenation and non-invasive fat reduction. While this is not necessarily aimed at the novice, the material included will be very useful in providing a framework concerning optimal devices and will be enhanced by at least 25% of the time being devoted to an interactive discussion on each topic.

Instructional Content/Expected Learning Objectives It is expected that participants in this activity will be able to integrate this information into their knowledge base and improve competence, and patient outcomes. The format of this activity will allow participants to ask specific questions, which could be answered in an open discussion format or privately after the session has been completed if preferred.

Director(s) Christine C. Dierickx, MD; Brian D. Zelickson, MD

Faculty Martin E. Braun, MD; A. Jay Burns, MD; Roy G. Geronemus, MD; Mitchel P. Goldman, MD; Merete Haedersdal, MD, PhD, DMSc; Suzanne L. Kilmer, MD; E. Victor Ross, MD; Elizabeth L. Tanzi, MD; Nathan S. Uebelhoer, MD

TIME	ACTIVITY
1:30 PM - 1:35 PM	Introduction and Pre-Test
1:36 PM - 1:56 PM	Fractional Ablative and Non-ablative Resurfacing: My Approach - Roy G. Geronemus
1:57 PM - 2:17 PM	Combining Resurfacing with Other Lasers, Toxins and Fillers - Suzanne L. Kilmer
2:18 PM - 2:38 PM	The Role RF Needles Coupled with Visible Light Technologies for Pan-Facial Rejuvenation - E. Victor Ross
2:39 PM - 2:59 PM	The Role of PDT for Rejuvenation - Merete Haedersdal
3:00 PM - 3:20 PM	Classic CO ₂ and Er:YAG for Treatment of Scars on the Face - Nathan S. Uebelhoer
3:21 PM - 3:36 PM	Q&A
3:37 PM - 3:52 PM	BREAK
3:53 PM - 4:13 PM	Fillers, Toxins and Threads - Martin E. Braun
4:14 PM - 4:34 PM	Face and Neck Tightening and Contouring: My Approach - Elizabeth L. Tanzi
4:35 PM - 4:55 PM	Body Tightening and Contouring: My Approach - Mitchel P. Goldman
4:56 PM - 5:16 PM	Do We Still Need Surgery for Rejuvenation and Contouring? - A. Jay Burns
5:17 PM - 5:30 PM	Q&A, Conclusion and Post-Test

Celebration of ASLMS Women in Energy-Based Devices - Special Event (non-CME)

Thursday, April 6 | 5:30 PM - 7:30 PM | Room: 28 C/D/E

Director(s) Thanh-Nga Tran MD, PhD

Panelists Cheryl Deguara PhD; Merete Haedersdal MD, PhD, DMSc; Marina Kamenakis; Fernanda H. Sakamoto MD, PhD; Agustina Vila Echague MD, PhD; Jill S. Waibel MD;

Featured Speaker / Special Guest R. Rox Anderson, MD; Kim Phuc

Hors d'oeuvres and beverages at start and throughout:

TIME	ACTIVITY
5:30 PM - 5:44 PM	Hors d'oeuvres, Beverages and Professional Networking
5:45 PM - 5:49 PM	Introduction and Welcome - Thanh-Nga T. Tran
	Award Presentation - Thanh-Nga T. Tran
5:50 PM - 6:00 PM	<u>ASLMS Leadership, Mentorship & Public Advocacy for Women in Medical Science Award Recipient</u> - <i>Shadow and Light: Journeys of Laser Healing</i> - Jill S. Waibel
6:01 PM - 6:21 PM	Featured Speaker - <i>The Gift of Problems Worth Solving</i> - R. Rox Anderson
6:22 PM - 6:37 PM	Special Q&A Session Topic Related to Featured Presentation - R. Rox Anderson, Fernanda H. Sakamoto, Jill S. Waibel, Kim Phuc
	Expert Panels and Q&A - <i>Impact on International Innovations, Outreach (Humanitarian Medicine), and Problem Solving Related to Women's Health and Related Experiences</i>
6:38 PM - 6:58 PM	* Industry Representatives - Cheryl Deguara, Marina Kamenakis
	* Scientific Representatives - Merete Haedersdal, Fernanda H. Sakamoto
	* Clinical Representatives - Agustina Vila Echague, Jill S. Waibel
6:59 PM - 7:30 PM	Open Social and Professional Networking

Device-Assisted Hair Restoration - Breakfast

Friday, April 7 | 7:00 AM - 8:00 AM | Room: 29 A/B

AMA PRA CATEGORY 1 CME CREDITS: 1.00 MAX | CE CONTACT HOURS: 1.00 MAX

Educational Needs Understand the role of the robot in hair restoration regarding candidate selection. Learn how to integrate a robot into a hair transplant procedure. Learn how to integrate into a hair transplant practice.

Participants The target audience is hair transplant physicians, and any novice interested in learning the procedure, and physicians interested in robotic technology.

Background Requirements There are no specific requirements for this session.

Instructional Content/Expected Learning Objectives At the end of the session, participants should be able to gain a better understanding of:

- » The role of robotic technology in hair transplantation.
- » Advantages of current technology and its limitations.
- » Candidate selection for the procedure.

Director(s) Marc R. Avram, MD; Neil S. Sadick, MD

Faculty N/A

TIME	ACTIVITY
7:00 AM - 7:05 AM	Introduction and Pre-Test
7:06 AM - 7:28 AM	Robotic-Assisted Hair Transplantation - Marc R. Avram
7:29 AM - 7:51 AM	Energy-Based Devices and Injectable Factors in the Treatment of Hair Loss - Neil S. Sadick
7:52 AM - 7:55 AM	Q&A
7:56 AM - 8:00 AM	Conclusion and Post-Test

New Treatments for Tackling Scars - Breakfast

Friday, April 7 | 7:00 AM - 8:00 AM | Room: 29 C/D

AMA PRA CATEGORY 1 CME CREDITS: 1.00 MAX | CE CONTACT HOURS: 1.00 MAX

Educational Needs Identification of different treatment techniques for scar revision. We will also add a pediatric perspective as it pertains to diagnosing, treating, and rehabilitating this uniquely vulnerable population.

Participants Dermatologists, plastic surgeons, and other practitioners who consult on and treat scars.

Background Requirements There are no specific background requirements (basic laser experience helpful).

Instructional Content/Expected Learning Objectives

- » Properly categorize scars and identify best lasers/devices and timing for treatment.
- » Outline proper laser treatment parameters and intervals.
- » Understand how to combine treatments in order to enhance clinical outcome.

Director(s) Andrew C. Krakowski, MD, PhD; Peter R. Shumaker, MD

Faculty R. Rox Anderson, MD; E. Victor Ross, MD

TIME	ACTIVITY
7:00 AM - 7:04 AM	Introduction and Pre-Test
7:05 AM - 7:25 AM	A Review of the Literature - Andrew C. Krakowski; Peter R. Shumaker
7:26 AM - 7:41 AM	Integrating Scar Treatment into Clinical Practice - E. Victor Ross
7:42 AM - 7:56 AM	Beyond the Horizon - R. Rox Anderson
7:57 AM - 8:00 AM	Q&A, Conclusion and Post-Test

Optimizing Patient Experience - Breakfast

Friday, April 7 | 7:00 AM - 8:00 AM | Room: 28 C/D

AMA PRA CATEGORY 1 CME CREDITS: 1.00 MAX | CE CONTACT HOURS: 1.00 MAX

Educational Needs Clinical mastery of laser and energy devices is a prerequisite to using them successfully in clinical practice. But even the most talented laser surgeon needs a steady supply of patients to remain in business. This activity focuses on proven means for creating a great patient experience, meeting their needs and keeping them coming back.

Participants This activity is designed for clinicians who are interested in maximizing patient satisfaction and retention.

Background Requirements There are no specific prerequisites for attending this activity.

Instructional Content/Expected Learning Objectives At the conclusion of this activity, participants will:

- » Develop ideas for maximizing clinical space, utilizing staff for maximal efficiency, and maintaining smooth patient flow in a busy laser practice.
- » Utilize the initial consultation as a tool for enhancing patient satisfaction.
- » Understand methods to expand patient referrals and retain existing patients.
- » Incorporate strategies for managing difficult patient cases and avoiding common pitfalls.

Director(s) Ashish C. Bhatia, MD, FAAD

Faculty Robert Bacigalupi, MD; Jeffrey S. Dover, MD, FRCPC; Jennifer L. MacGregor, MD

TIME	ACTIVITY
7:00 AM - 7:05 AM	Introduction and Pre-Test
7:06 AM - 7:17 AM	Improving the Patient Experience at Their First Visit - Robert Bacigalupi
7:18 AM - 7:29 AM	Tips for Retaining Patients in Your Practice - Jennifer L. MacGregor
7:30 AM - 7:34 AM	Q&A
7:35 AM - 7:46 AM	Attracting Patients and Keeping Them - Jeffrey S. Dover
7:47 AM - 7:52 AM	Tips for Maximizing Your Laser Practice - Ashish C. Bhatia
7:53 AM - 8:00 AM	Q&A, Conclusion and Post-Test

State-of-the-Art in Tattoo Treatment - Breakfast

Friday, April 7 | 7:00 AM - 8:00 AM | Room: 24 A/B

AMA PRA CATEGORY 1 CME CREDITS: 1.00 MAX | CE CONTACT HOURS: 1.00 MAX

Educational Needs Educational needs addressed include overview and update of past, present and future technologies and techniques in laser tattoo removal.

Participants All practitioners, from beginners to seasoned veterans.

Background Requirements Basic understanding of laser technology, specifically lasers designed for removal of tattoos.

Instructional Content/Expected Learning Objectives Obtain an understanding of the latest techniques and technology for the removal of all types of tattoos in various skin types.

Director(s) Nazanin A. Saedi, MD

Faculty Klaus Hoffmann, MD, PhD; Kelly J. Stankiewicz, MD, FAAD

TIME	ACTIVITY
7:00 AM - 7:04 AM	Introduction and Pre-Test
7:05 AM - 7:19 AM	Biology of Tattoos and an Overview of Lasers for Tattoo Removal - Klaus Hoffmann
7:20 AM - 7:29 AM	New Lasers for Treating Tattoos - Nazanin A. Saedi
7:30 AM - 7:39 AM	New Concepts for Treating Tattoos - Kelly J. Stankiewicz
7:40 AM - 7:49 AM	Cosmetic, Traumatic, and Allergic Tattoo Removal - Kelly J. Stankiewicz
7:50 AM - 8:00 AM	Cases, Q&A, Conclusion and Post-Test

Basic Science and Translational Research - Abstract Session

Friday, April 7 | 8:00 AM - 10:00 AM | Room: 30 A/B

AMA PRA CATEGORY 1 CME CREDITS: 2.00 MAX

Educational Needs These sessions will promote understanding of:

- » Tissue and cell/molecular-level responses of skin following energy-based interventions
- » Background on latest technologies for skin imaging, rejuvenation and lypolysis
- » The use of light in medicine for treatment, in which photons transfer their energy to specific targets to modify tissues
- » The use of light in medicine for imaging and diagnostics, in which photons interrogate the structure and function of cells and tissue.
- » How photomedicine is advancing patient care.

Participants Clinicians, scientists, researchers, developers.

Background Requirements Basic knowledge of skin and major structural components, skin extracellular matrix remodeling, and basic light-tissue interactions.

Instructional Content/Expected Learning Objectives Participants will learn about:

- » The latest technologies for skin rejuvenation, spanning ablative and non-ablative approaches with knowledge gained on epithelial response and ECM remodeling.
- » The use of light and imaging for assessing skin properties and structure.
- » Advances in drug delivery using fractional lasers and understanding the skin response to this laser modality.

Hot Topics

- » Drug Delivery.
- » Photothermal Mechanisms.
- » Skin Rejuvenation.
- » Energy-based Remodeling and Lypolysis.

Chair(s) Walfre Franco, PhD; Gracie Vargas, PhD

TIME	ABSTR	ACTIVITY
8:00 AM - 8:05 AM		Introduction
CUTANEOUS APPLICATIONS		
8:06 AM - 8:14 AM	001	SKIN REJUVENATION: A REVIEW OF CURRENT TECHNOLOGY <i>Caerwyn Ash★, Rebecca Whittall, Godfrey Town, Mario Trelles, Dvora Ancona</i> UWTSU, Swansea, Wales, United Kingdom
8:15 AM - 8:17 AM		Q&A
8:18 AM - 8:26 AM	002	SAFETY AND EFFICACY OF 1540nm LASER TO STIMULATE ELASTIN AND COLLAGEN PRODUCTION <i>IN VIVO</i> <i>Merete Haedersdal, Uwe Paasch★, Hans Georg Breunig, Karsten König</i> Bispebjerg University Hospital, Copenhagen, Denmark; University of Leipzig, Leipzig, Germany; Saarland University, Saarbrücken, Germany
8:27 AM - 8:29 AM		Q&A
8:30 AM - 8:38 AM	003	OPTICAL COHERENCE TOMOGRAPHY FOR <i>IN VIVO</i> IMAGING OF ALOPECIA <i>Andrew Heidari★, Jessica Lin, Manuel Valdebran, Kristen Kelly, Zhongping Chen, Natasha Mesinkovska</i> University of California Irvine, Irvine, CA

TIME	ABSTR	ACTIVITY
8:39 AM - 8:41 AM		Q&A
8:42 AM - 8:50 AM	004	COMPARISON STUDY OF SKIN PROPERTIES CALCULATED FROM DIFFUSE REFLECTANCE SPECTROSCOPY OF NORMAL AND DISEASED SKIN <i>Antonio Ortega-Martinez★, Adam Raff, Walfre Franco</i> Massachusetts General Hospital, Boston, MA
8:51 AM - 8:53 AM		Q&A
8:54 AM - 9:02 AM	005	TRANSCUTANEOUS LASER LYPOLYSIS WITH 1,064nm Nd:YAG: EXPERIMENTAL AND NUMERICAL EVALUATION <i>Matija Milanic★, Blaz Tasic, Matija Jezersek, Matjaz Lukac</i> University of Ljubljana, Ljubljana, Slovenia; Fotona D.O.O., Ljubljana, Slovenia
9:03 AM - 9:05 AM		Q&A
FRACTIONAL LASER MEDIATED THERAPY		
9:06 AM - 9:14 AM	006	FRACTIONAL LASER-ASSISTED TOPICAL DELIVERY LEADS TO ENHANCED, ACCELERATED AND DEEPER CUTANEOUS 5-FLUOROURACIL (5-FU) UPTAKE <i>Emily Wenande★, Uffe Høgh Olesen, Mette M. B. Nielsen, Christian Janfelt, Steen Honore Hansen, R. Rox Anderson, Merete Haedersdal</i> Bispebjerg University Hospital, Copenhagen, Denmark; Wellman Center for Photomedicine, Massachusetts General Hospital, Harvard Medical School, Boston, MA
9:15 AM - 9:17 AM		Q&A
9:18 AM - 9:26 AM	007	MOLECULAR EFFECTS OF NON-SEQUENTIAL FRACTIONAL ULTRAPULSED CO₂ LASER IRRADIATION ON HUMAN THREE DIMENSIONAL <i>IN VITRO</i> SKIN MODELS <i>Laurenz Schmitt, Philipp Amann, Yvonne Marquardt, Ruth Heise, Sebastian Huth, Katharina Fietkau, Laura Huth, Timm Steiner, Frank Holzle, Jens Baron★</i> RWTH Aachen University, Aachen, Germany
9:27 AM - 9:29 AM		Q&A
9:30 AM - 9:38 AM	008	THE COAGULATION ZONE ACTS AS A RESERVOIR FOR SODIUM FLUORESCIN <i>Christina Banzhaf★→, Lynlee Lin, Nhung Dang, Miko Yamada, Paul Belt, Peter Soyer, Michael Freeman, Merete Haedersdal, Tarl Prow</i> Bispebjerg Hospital, Copenhagen University, Copenhagen, Denmark; Dermatology Research Centre, Translational Research Institute, Princess Alexandra Hospital, University of Queensland, Brisbane, Australia; Skin Centre, Benowa Queensland, Gold Coast, Australia
9:39 AM - 9:41 AM		Q&A
9:42 AM - 9:50 AM	009	HYPERTROPHIC BURN SCARS MODULATION THROUGH LASER-ASSISTED DELIVERY OF ADIPOSE DERIVED STEM CELLS vs BONE-MARROW MESENCHYMAL STEM CELLS WITH THE CO₂ vs ERBIUM:YAG LASER <i>Jill Waibel★, Evangelos Badiavas, Stephen Davis, Luis Rodriguez-Menocal</i> Miami Dermatology and Laser Institute, Miami, FL; University of Miami, Miami, FL
9:51 AM - 9:53 AM		Q&A
9:54 AM - 10:00 AM		Conclusion

Marketing Your Photomedicine Practice: All Creatures Great and Small - Workshop

Presented by NAALT Clinical and Veterinary Representatives

Friday, April 7 | 8:00 AM - 10:00 AM | Room: 31 B/C

AMA PRA CATEGORY 1 CME CREDITS: 2.00 MAX | CE CONTACT HOURS: 2.00 MAX

Educational Needs The participant will have a good understanding about how to establish, develop and market photomedicine within their medical or veterinary practice.

Participants Medical and veterinary doctors who wish to incorporate photomedicine into their practice.

Background Requirements Trained medical professional with basic knowledge of the physics of light.

Instructional Content/Expected Learning Objectives After this course, attendees should know:

- » How light interacts with tissue to promote healing, reduce inflammation and pain.
- » What factors affect the delivery of light to the target tissue.
- » What type laser is best for your practice.
- » How to structure therapy in terms of time and manpower.
- » How to understand your overhead and return on investment.
- » How to communicate the technology benefits to your patients and staff.
- » How to train your staff.
- » How to market this technology.

Director(s) Terrance Baker, MD; Richard L. Godine, DVM

Faculty N/A

TIME	ACTIVITY
8:00 AM - 8:21 AM	Introduction, Pre-Test and Science and Clinical Applications of Photomedicine Technology - Terrance Baker; Richard L. Godine
8:22 AM - 8:37 AM	Six Golden Rules of Marketing - Terrance Baker; Richard L. Godine
8:38 AM - 8:53 AM	Client Friendly Technology - Terrance Baker; Richard L. Godine
8:54 AM - 9:09 AM	Repeat and Word of Mouth Business - Terrance Baker; Richard L. Godine
9:10 AM - 9:25 AM	The Value of Each New Patient - Terrance Baker; Richard L. Godine
9:26 AM - 9:41 AM	Networking - Terrance Baker; Richard L. Godine
9:42 AM - 10:00 AM	Q&A, Conclusion and Post-Test

Complications, Legal Issues and Laser Safety - Workshop

Friday, April 7 | 8:00 AM - 10:00 AM | Room: Hall F

AMA PRA CATEGORY 1 CME CREDITS: 2.00 MAX | CE CONTACT HOURS: 2.00 MAX

Educational Needs This activity will focus on energy-based device safety, cutaneous and ophthalmic complications from such devices, prevention of complications, how to prevent a lawsuit and physician extender issues. Knowledge of safety, both theoretical and applied, is required by OSHA, ANSI, state regulations, professional bodies, and local facility-based policies. Safety is a dynamic topic, changing and evolving constantly, and therefore becomes an area of education that must be offered periodically by experts in the field who are able to provide the most current information to users.

Participants This activity is designed for physicians and designated extenders using energy-based devices. All professionals are required to obtain safety education, and therefore, there are no inclusions or exclusions on attendance. It is hoped that this barrier free workshop will be marketed as such, inviting physicians, nurses, industry partners, administrators, scientists, allied health workers, and anyone else interested in the safe and appropriate use of lasers in compliance with regulations and standards.

Background Requirements No background is required for this activity.

Instructional Content/Expected Learning Objectives It is expected that participants will learn:

- » About energy-based device safety, cutaneous and ophthalmic complications from such devices, prevention of complications, how to prevent a lawsuit and physician extender issues.
- » How to assess their current practice for compliance with ANSI standards with regard to use of laser protective eye-wear, use of 3rd party (rental) laser systems, and administrative policies.
- » Compare and contrast the application of ANSI standards between laser use in a hospital practice setting and laser use in a private practice.
- » Discuss options for education and training of laser team members that will meet the requirements mandated in ANSI standards, and other relevant regulations and guidelines.

Director(s) David J. Goldberg, MD, JD; H. Ray Jalian, MD

Faculty Mathew M. Avram, MD, JD; Brian S. Biesman, MD; Suzanne L. Kilmer, MD

TIME	ACTIVITY
8:00 AM - 8:05 AM	Introduction and Pre-Test
8:06 AM - 8:20 AM	Lasers and Lawsuits - H. Ray Jalian
8:21 AM - 8:50 AM	Legal Issues Regarding Lasers, Light Sources and Energy Based Devices - Mathew M. Avram
8:51 AM - 9:10 AM	Laser Safety - Suzanne L. Kilmer
9:11 AM - 9:25 AM	Energy Based Device Complications - David J. Goldberg
9:26 AM - 9:40 AM	Safe Laser Treatment Around the Eyes - Brian S. Biesman
9:41 AM - 9:50 AM	Energy Delivery: Physician and Physician Extender Issues - David J. Goldberg
9:51 AM - 10:00 AM	Q&A, Conclusion and Post-Test

Emerging Energy-Based Device Applications in Women's Health - Workshop

Friday, April 7 | 8:00 AM - 10:00 AM | Room: 28 A/B

AMA PRA CATEGORY 1 CME CREDITS: 2.00 MAX | CE CONTACT HOURS: 2.00 MAX

Educational Needs The purpose of this course is to introduce the audience, in a structured and unbiased fashion, to emerging device therapeutic options for the treatment of common gynecologic conditions. The issues to be discussed at this workshop include but are not limited to:

- » Introduction anatomy and basic laser physics laser-tissue interactions to vulvovagina.
- » Presentation on the FDA clearances for application of device-based treatments to the genitourinary tissues.
- » The clinical and histologic findings following device treatments, including fractional laser resurfacing and radio frequency.
- » The application of device-based treatments to urinary incontinence and pelvic prolapse.
- » The application of device-based treatments to atrophic vaginitis.
- » Device-based treatments for other vaginal and vulval disorders such as lichen sclerosis.

Participants Target audience shall include gynecologists and urologists, and laser specialists who wish to attain knowledge in this area.

Background Requirements Background training in gynecology, urology and/or lasers for the vulvovaginal area.

Instructional Content/Expected Learning Objectives It is expected that participants in this activity will be able to identify the anatomy and current FDA clearances for devices in treating genitourinary tissue. They will become familiar with the emerging technologies being developed for urinary incontinence, pelvic prolapse and atrophic vaginitis. They will become aware of the FDA trials underway for these indications.

Director(s) Macrene R. Alexiades, MD, PhD; Nathan L. Guerette, MD, FPMRS, FACOG

Faculty Oscar A. Aguirre, MD; Red Alinsod, MD; Adrian Gaspar, MD; Kevin Stepp, MD; Yona Tadir, MD

TIME	ACTIVITY
8:00 AM - 8:05 AM	Introduction and Pre-Test
8:06 AM - 8:20 AM	Energy-Based Vulvo-Vaginal Therapy: Current Uses and Evidence - Nathan L. Guerette
8:21 AM - 8:35 AM	Laser and Radiofrequency Vaginal Tissue Interactions and FDA Clearances - Macrene R. Alexiades
8:36 AM - 8:49 AM	History - Adrian Gaspar
8:50 AM - 9:04 AM	Fx CO ₂ - Oscar A. Aguirre
9:05 AM - 9:19 AM	Fx Er and Non-Ablative - Kevin Stepp
9:20 AM - 9:34 AM	RF - Red Alinsod
9:35 AM - 9:49 AM	Marketing: Appropriateness and Pitfalls - Yona Tadir
9:50 AM - 10:00 AM	Q&A, Conclusion and Post-Test

Energy-Based Treatments and Imaging for Skin Cancer - Workshop

Friday, April 7 | 8:00 AM - 10:00 AM | Room: 25 B/C

AMA PRA CATEGORY 1 CME CREDITS: 2.00 MAX | CE CONTACT HOURS: 2.00 MAX

Educational Needs The objective of this session is to review current technology for imaging skin cancer and discuss future directions. Additional objectives are to identify various energy-based treatment modalities effective for treating skin cancer and determine unmet needs in the field.

Participants This session is meant for any physician, practitioner, or scientist that treats skin cancer or conducts research in the imaging and/or treatment of skin cancers.

Background Requirements A basic fundamental knowledge of skin cancer is helpful for attending this session.

Instructional Content/Expected Learning Objectives At the end of this discussion, participants should be familiar with novel imaging technologies for imaging skin cancer. Participants should be aware of current energy-based treatment modalities and other modalities that may be available in the future.

Director(s) Arisa E. Ortiz, MD; Benjamin J. Vakoc, PhD

Faculty Merete Haedersdal, MD, PhD, DMSc; Uffe Høgh Olesen, PhD; Milind Rajadhyaksha, BS, MS, PhD; Anthony M. Rossi, MD, FAAD; Anna N. Yaroslavsky, PhD

TIME	ACTIVITY
8:00 AM - 8:03 AM	Introduction and Pre-Test
8:04 AM - 8:23 AM	Photodynamic Therapy for Skin Cancer - Merete Haedersdal
8:24 AM - 8:31 AM	Image Guided Laser-Assisted Drug Delivery - Uffe Høgh Olesen
8:32 AM - 8:46 AM	Towards Image Guided Skin Cancer Surgery - Anna N. Yaroslavsky
8:47 AM - 9:01 AM	Non-Invasive Imaging for Managing and Treating Skin Cancers - Anthony M. Rossi
9:02 AM - 9:16 AM	Skin Cancer Margin Delineation By Optical Coherence Tomography - Benjamin J. Vakoc
9:17 AM - 9:31 AM	Peri-Operative Confocal Imaging-Guided Treatment of Basal Cell Carcinomas - For Mohs Surgery, Laser Ablation - Milind Rajadhyaksha
9:32 AM - 9:46 AM	New Advances in Laser Treatment of Basal Cell Carcinoma - Arisa E. Ortiz
9:47 AM - 10:00 AM	Q&A, Conclusion and Post-Test

Laser-Assisted Drug Delivery - Workshop

Friday, April 7 | 8:00 AM - 10:00 AM | Room: 30 C/D

AMA PRA CATEGORY 1 CME CREDITS: 2.00 MAX | CE CONTACT HOURS: 2.00 MAX

Educational Needs

- » Understand the interaction between fractional lasers and topically applied drugs, providing attendees with a basic understanding of the interaction between laser settings and clinical skin reactions.
- » Evaluate the current clinical state of knowledge in laser-assisted drug delivery in dermatologic oncology, scar treatment, and rejuvenation procedures.
- » Cover safety issues.
- » To update on the latest research and future of fractional laser procedures and in combination with topical drugs and substances.

Participants This activity is primarily designed for clinical laser practitioners such as dermatologic laser surgeons and plastic laser surgeons.

Background Requirements Participants should possess basic clinical laser skills and training.

Instructional Content/Expected Learning Objectives This activity is directed at both potential and experienced users of fractional laser technologies to enhance the uptake of topically applied drugs. The goal of this activity will be to share knowledge of laser-assisted drug delivery and to provide clinical tips to help in your office. We will have a comprehensive session including basic knowledge, clinical update and future perspectives on the combination of fractional lasers and drugs. We will have top experts in aesthetic, academic and private practice come together in a multidisciplinary panel to address this important topic. We will focus on laser parameters and indications to help optimize patient treatment in your office. The activity will end with an enlightening talk on research and the future of scar treatment with laser therapy.

Director(s) Merete Haedersdal, MD, PhD, DMSc; Jill S. Waibel, MD

Faculty Jeffrey S. Dover, MD, FRCP; Andrés Mar Erendsson, MD, PhD; Uwe Paasch, MD, PhD

TIME	ACTIVITY
8:00 AM - 8:05 AM	Introduction and Pre-Test
8:06 AM - 8:26 AM	An Overview of Laser-Assisted Drug Delivery - Andrés Mar Erendsson
8:27 AM - 8:47 AM	Current Advancements in the Treatment of Scars: How We Do It - Jill S. Waibel
8:48 AM - 9:08 AM	Combo of Fractional Lasers and Drugs for Rejuvenation - Jeffrey S. Dover
9:09 AM - 9:29 AM	Skin Cancer Treated with Fractional Lasers and Anticancer Drugs - Merete Haedersdal
9:30 AM - 9:50 AM	Safety, Outlook and Future Perspectives - Uwe Paasch
9:51 AM - 10:00 AM	Q&A, Conclusion and Post-Test

Plenary Session

Friday, April 7 | 10:30 AM - 12:00 PM | Room: Hall F

AMA PRA CATEGORY 1 CME CREDITS: 1.5 MAX

Presiding Kristen M. Kelly, ASLMS President, 2016-2017

Program Chairs Bernard Choi, PhD; Arisa E. Ortiz, MD; Nazanin A. Saedi, MD

Keynote Speaker Kim Phuc

Award Speaker Bo Chen, PhD

TIME	ACTIVITY
10:00 AM - 10:35 AM	Program Co-Chairs Welcome (Announcement of \$1000 Cash Winners) - Bernard Choi; Arisa E. Ortiz; Nazanin A. Saedi
10:36 AM - 10:42 AM	Presidential Address - Kristen M. Kelly
10:43 AM - 11:08 AM	ASLMS Special Recognition and Presidential Citation Awards - Kristen M. Kelly
11:09 AM - 11:15 AM	2017 Conference Abstract Awards - Arisa E. Ortiz
11:16 AM - 11:28 AM	Dr. Horace Furumoto Young Investigator Award Recipient - Introduced by Bernard Choi Objective Measurements in the Development of Aesthetic Treatments - Bo Chen
11:29 AM - 11:59 AM	Keynote Speaker - Introduced by Nazanin A. Saedi Life Lessons: A Journey From War to Peace and Forgiveness - Kim Phuc
12:00 PM - 12:30 PM	ASLMS Business Meeting (members only)

2017 Business Meeting Agenda

1. Call to Order – Kristen M. Kelly, MD
2. Additions to the Agenda – Kristen M. Kelly, MD
3. Approval of Minutes of April 1, 2016 Business Meeting – Kristen M. Kelly, MD
4. Treasurer's Report – E. Victor Ross, MD
5. Secretary's Report – Suzanne L. Kilmer, MD
6. Election Results – Kristen M. Kelly, MD
7. New Business – Kristen M. Kelly, MD
8. Introduction of Mathew Avram, MD, JD, President-Elect
9. Motion to Adjourn – Kristen M. Kelly, MD

ESLD-Challenging Clinical Cases/Series (with International Panel Discussion) - Abstract Session

Friday, April 7 | 1:30 PM - 2:45 PM | Room: 31 B/C

AMA PRA CATEGORY 1 CME CREDITS: 1.25 MAX

Educational Needs This session will explore parameters for laser treatment for different skin lesions for multiple medical indications that still need optimization. It is a challenge for the practicing physician to choose not only the right device for the intervention but also the choice of parameters remains a challenge as research is often still unsatisfactory. By actively exchanging and discussing device choices and treatments parameters for different medical indications, the participant will enhance their knowledge about laser and energy-based devices, will be more at ease with laser and energy based device settings, and ultimately will have satisfying outcomes for the physician, and most of all for their patients.

Participants Any practitioner using laser and energy-based devices in medical applications.

Background Requirements A solid background knowledge of laser and energy-based device applications will be helpful to join the in depth discussion. However even beginning laser and energy-based device practitioners will have the opportunity to discuss their difficulties encountered in their daily practice.

Instructional Content/Expected Learning Objectives At the end of the session, attendees will have a better understanding about how to optimize laser parameters for specific indications to improve the outcome and avoid unwanted side effects. Attendees will also learn about new indications in which laser and energy-based devices might be a valid alternative treatment tool. Attendees will furthermore have the opportunity to learn about and share their own practical treatment pearls within the discussion of each presentation.

Hot topics

- » PDT is being used in daily routine practice to treat cancerous and precancerous lesions. However often clinical penetration is insufficient and outcome is lacking. Enhancing the drug uptake by pre-treatment with microdermabrasion is a possible, inexpensive and easy-to-use tool to overcome this obstacle.
- » Excimer laser and lamps are used to treat localized vitiligo. Topically applied khellin appears to improve this already well-established treatment. Vitiligo treatment is becoming more and more efficient combining different treatment methods.

Chair(s) Ashraf M. Badawi, MD, PhD; Hans Joachim Laubach, MD

TIME	ABSTR	ACTIVITY
1:30 PM - 1:35 PM		Introduction
1:36 PM - 1:42 PM	104	1318nm LASER TECHNOLOGY IN LUNG SURGERY SEEMS TO BE A UNIQUE THERAPY IN SELECTED METASTATIC PATIENTS <i>Steffen Drewes★, Beata Bis, Andreas Friedrich</i> Fachkrankenhaus Coswig, Coswig, Saxony, Germany
1:43 PM - 1:47 PM		Case Discussion with Audience
1:48 PM - 1:54 PM	190	C-PDT AND INTENSIFICATION <i>Muriel Creusot★</i> Centre Dermatologique du Roy, Lasne, Brabant Wallon, Belgium
1:55 PM - 1:59 PM		Case Discussion with Audience
2:00 PM - 2:06 PM	105	ASSOCIATION OF KHELLIN AND EXCIMER LAMP 308nm IN THE TREATMENT OF SEVERE ALOPECIA AREATA <i>Samy Fenniche★, Houda Hammami, Anissa Zaouak</i> Habib Thameur Hospital, Tunis, Tunisia

TIME	ABSTR	ACTIVITY
2:07 PM - 2:10 PM		Case Discussion with Audience
2:11 PM - 2:17 PM	LB21	LOW-LEVEL LIGHT - MINOXIDIL 5% COMBINATION VERSUS EITHER THERAPEUTIC MODALITY ALONE IN MANAGEMENT OF FEMALE PATTERNED HAIR LOSS: A RANDOMIZED CONTROLLED STUDY <i>Samia Esmat, Rehab Hegazy, Heba Gawdat★, Rania Abdel Hay, Hoda Moneib, Rofaida El Naggar, Riham Allam</i> Cairo University, Cairo, Egypt
2:18 PM - 2:22 PM		Case Discussion with Audience
2:23 PM - 2:29 PM	107	CLINICAL AND HISTOLOGICAL EVALUATION OF THE EFFICACY OF DIFFERENT LASER COMBINATIONS IN THE TREATMENT OF BECKER'S MELANOSIS <i>Samia Esmat★, Mona Rabie Abdelhalim, Heba Gawdat, Amina A. Gamal Eldin, Manal A. Badawi, Amira Rashad</i> Cairo University, Cairo, Egypt; National Research Center, Cairo, Egypt
2:30 PM - 2:34PM		Case Discussion with Audience
2:35 PM - 2:45 PM		Q&A and Conclusion

PAPDT-PDT - Abstract Session

Friday, April 7 | 1:30 PM - 5:15 PM | Room: 30 C/D

AMA PRA CATEGORY 1 CME CREDITS: 3.00 MAX

Educational Needs These sessions will highlight the basic science and clinical applications of Photodynamic Therapy. PDT involves the use of light and a photosensitizing agent to ablate tumors and infections, state-of-the-art treatment will be reviewed as well as mechanisms of action.

Participants: Scientists, physicians, students, nurses and industry representatives.

Background Requirements No particular background requirements.

Instructional Content/Expected Learning Objectives Participants will identify gaps in their knowledge, competence and performance.

Hot topics

- » New techniques involving light to treat cancer.
- » The use of daylight to treat skin cancer.
- » Innovative treatment of brain tumors with light.
- » The use of light to kill bacterial infections.

Chair(s) Ron R. Allison, MD; Andres Mar Erlendsson, MD, PhD; Merete Haedersdal, MD, PhD, DMSc

Speaker(s) Theresa M. Busch, PhD; Sandra Gollnick, PhD; Tayyaba Hasan, PhD; Thomas S. Mang, PhD; Uwe Paasch, MD, PhD; Imran Rizvi, PhD; Fernanda H. Sakamoto, MD PhD; Emily Wenande, MD; Georg T. Wondrak, PhD

TIME	ABSTR	ACTIVITY
1:30 PM - 1:33 PM		PAPDT Meeting Introduction - Ron R. Allison; Merete Haedersdal
1:34 PM - 1:44 PM		Introduction to PDT - Thomas S. Mang
1:45 PM - 1:58 PM		Cutaneous PDT: Update - Merete Haedersdal
1:59 PM - 2:12 PM		Microdermabrasion / Ablative Fractional Laser Before Daylight PDT - Emily Wenande
2:13 PM - 2:27 PM		Indoor Daylight PDT - Uwe Paasch
2:28 PM - 2:41 PM		PDT for Acne - Fernanda H. Sakamoto
2:42 PM - 2:44 PM		Q&A
2:45 PM - 3:29 PM		BREAK
3:30 PM - 3:40 PM		Fluence Rate and Photodamage: Remaining Cognizant of the Biological Consequences of Irradiance in PDT - Theresa M. Busch
3:41 PM - 3:51 PM		Harnessing the Endogenous Tryptophan-derived Photosensitizer and AhR-ligand 6-formylindolo[3,2-b]carbazole (FICZ) for Experimental Photodynamic Intervention - Georg T. Wondrak
3:52 PM - 4:02 PM		Photodamage in the Context of Neighboring Cell Reprogramming - Tayyaba Hasan
4:03 PM - 4:13 PM		Basic Science 1 - Sandra Gollnick
4:14 PM - 4:30 PM		Basic Science 2 - Imran Rizvi
4:31 PM - 4:41 PM		Antimicrobial PDT Update - Thomas S. Mang
4:42 PM - 4:44 PM		Q&A
4:45 PM - 4:47 PM		Abstract Session Introduction - Ron R. Allison; Merete Haedersdal

TIME	ABSTR	ACTIVITY
4:48 PM - 4:54 PM	133	ANTIMICROBIAL EFFECT ON CANDIDA ALBICANS BIOFILMS WITH DIFFERENT WAVELENGTHS AND DYES WITH SYNTHETIC KILLER DECAPEPTIDE <i>Elisabetta Merigo</i> ★→, <i>Marlene Chevalier, Stefania Conti, Tecla Ciociola, Carlo Fornaini; Maddalena Manfredi, Paolo Vescovi, Alain Doglio</i> University of Nice, Nice, France; University of Parma, Parma, Italy
4:55 PM - 5:01 PM	134	APPLICATION OF PHOTODYNAMIC THERAPY WITH LED AND METHYLENE BLUE IN STREPTOCOCCUS MUTANS IN THE PRESENCE OF GLUCOSE- IN VITRO STUDY <i>Cintia Leal</i> ★, <i>Leticia Alvarenga, Tamires Silva, Sandra Bussadori, Ilka Kato, Martha Ribeiro, Renato Prates</i> Universidade Nove de Julho São Paulo, São Paulo, Brazil; UFABC São Bernardo de Campo, Brazil; IPEN-CNEN/SP, São Paulo, Brazil
5:02 PM - 5:08 PM	135	SINGLET OXYGEN IS MORE EFFECTIVE THAN RADICALS TO KILL C. ALBICANS BY aPDT <i>Gabriela da Collina</i> ★, <i>Natalia Sobrinho, Thabata Paulino, Christiane Pavani</i> Universidade Nove de Julho São Paulo, São Paulo, Brazil
5:09 PM - 5:15 PM		Q&A and Conclusion

Basic Science and Translational Research - Abstract Session

Friday, April 7 | 1:30 PM - 5:15 PM | Room: 30 A/B

AMA PRA CATEGORY 1 CME CREDITS: 3.00 MAX

Educational Needs These sessions will promote understanding of:

- » The use of light in medicine for treatment, in which photons transfer their energy to specific targets to modify tissues
- » The use of light in medicine for imaging and diagnostics, in which photons interrogate the structure and function of cells and tissue.
- » How photomedicine is advancing patient care.

Participants Clinicians, scientists, researchers, developers.

Background Requirements Basic knowledge of skin and major structural components, skin extracellular matrix remodeling, and basic light-tissue interactions.

Instructional Content/Expected Learning Objectives Participants will learn about:

- » New strategies for creating target selectivity with nanoparticles in light-mediated treatments.
- » Advances in drug delivery using fractional lasers and in understanding the skin response to this laser modality.
- » New light-based technologies that aim to enable medical diagnostics and testing at the time and place of patient care.

Hot topics

- » Bedside Diagnostics.
- » Low-Cost Medical Devices.
- » Point of Care Technologies.
- » Drug Delivery.
- » Nanotechnology.
- » Photothermal Mechanisms.

Chair(s) Walfre Franco, PhD; Gracie Vargas, PhD

TIME	ABSTR	ACTIVITY
1:30 PM - 1:32 PM		Introduction
NANOPARTICLE MEDIATED THERAPY		
1:33 PM - 1:40 PM	10	LIGHT-ACTIVATED ERYTHROCYTE-DERIVED NANOPARTICLES FOR COMBINED PHOTOTHERMAL AND CHEMOTHERAPEUTIC EFFECTS <i>Jenny Mac★, Joshua Burns, Raviraj Vankayala, Bahman Anvari</i> University of California Riverside, Riverside, CA
1:41 PM - 1:43 PM		Q&A
1:44 PM - 1:51 PM	LB1	FRACTIONAL LASER-ASSISTED PERCUTANEOUS DRUG DELIVERY VIA TEMPERATURE-RESPONSIVE LIPOSOMES <i>Takahiro Fujimoto★</i> Clinic F, Chiyoda, Tokyo, Japan
1:52 PM - 1:54 PM		Q&A
1:55 PM - 2:02 PM	12	PULSED AND CW LASER IRRADIATION EFFECTS OF TiN NANOPARTICLES ON CANCER CELLS IN VITRO <i>Noe Zamora-Romero★, Guillermo Aguilar, Luis Felipe Devia-Cruz, David Halaney, Alejandro Alvarez-Barragan, Lorenzo Mangolini</i> University of California Riverside, Riverside, CA

TIME	ABSTR	ACTIVITY
2:03 PM - 2:05 PM		Q&A
2:06 PM - 2:13 PM	13	ENCAPSULATION OF INDOCYANINE GREEN (ICG) INTO ERYTHROCYTE-DERIVED PARTICLES EXTENDS THE HALF-LIFE OF ICG IN MICE CIRCULATION <i>Wangcun Jia★, Joshua Burns, Betty Villantay, Ben Lertsakdadet, Bernard Choi, J. Stuart Nelson, Bahman Anvari</i> Beckman Laser Institute, Irvine, CA; University of California Riverside, Riverside, CA
2:14 PM - 2:17 PM		Q&A
2:18 PM - 2:28 PM	LB2	CHARACTERIZATION OF THE IN VIVO PHARMACOLOGY OF OXYMETAZOLINE AND BRIMONIDINE USING A MOUSE MODEL OF UV-INDUCED ERYTHEMA <i>Edward Hsia★, Minting Tian, Daniel Gill, Jeffrey Dover</i> Allergan, Irvine, CA; SkinCare Physicians, Chesnut Hill, MA
2:29 PM - 2:31 PM		Q&A
2:32 PM - 2:41 PM	LB3	LOW-LEVEL LASER IRRADIATION IN RADIATION ONCOLOGY: THE POTENTIAL APPLICATION FOR RADIOSENSITIZATION <i>Gholamreza Esmaeeli Djavid★, Bahareh Bigdeli, Bahram Goliaei, Alireza Nikoofar</i> Academic Center for Education, Culture and Research, Tehran, Iran; University of Tehran, Tehran, Iran; Iran University of Medical Sciences, Tehran, Iran
2:42 PM - 2:44 PM		Q&A
2:45 PM - 3:29 PM		BREAK
POINT-OF-CARE		
3:30 PM - 3:39 PM	14	HANDHELD LASER SPECKLE IMAGING FOR POINT-OF-CARE BLOOD-FLOW MEASUREMENTS <i>Ben Lertsakdadet★, Ryan Farraro, Bruce Yang, Christian Crouzet, Adrien Ponticorvo, Anthony J. Durkin, Bernard Choi</i> University of California Irvine, Irvine, CA; George Washington University, Washington D.C.
3:40 PM - 3:44 PM		Q&A
3:45 PM - 3:54 PM	15	MOBILE PHONE-BASED UV FLUORESCENCE MICROSCOPY FOR THE IDENTIFICATION OF DERMATOPHYTES <i>Lee Roger Chevres Fernandez★→, William Lewis, Antonio Ortega-Martinez, Walfre Franco</i> University of Puerto Rico, Mayagüez, Puerto Rico; Wellman Center for Photomedicine, Boston, MA
3:55 PM - 3:59 PM		Q&A
4:00 PM - 4:09 PM	16	A THERMAL CONTRAST AMPLIFICATION READER YIELDING 8-FOLD ANALYTICAL IMPROVEMENT FOR DISEASE DETECTION WITH LATERAL FLOW ASSAYS <i>Yiru Wang★→, Zhenpeng Qin, David Boulware, Bobbi Pritt, Lynne Sloan, Warren Chan, John Bischof</i> University of Minnesota Twin Cities, Minneapolis, MN; Mayo Clinic, Rochester, MN; Foundation of New Innovative Diagnostics, Geneva, Romandy, Switzerland; Independent Consultant, Bellevue Washington; Hospital for Tropical Disease, University College London, Great London, United Kingdom; University of Toronto, Toronto, Ontario, Canada
4:10 PM - 4:14 PM		Q&A
4:15 PM - 4:24 PM	17	BUERGER'S EXERCISE EFFECTS ON IMPROVEMENT OF DORSAL FOOT SKIN CIRCULATION ASSESSED BY WIRELESS NEAR-INFRARED SPECTROSCOPE IN PATIENTS WITH VASCULOPATHIC DIABETES FOOT ULCERS: A COHORT PROSPECTIVE STUDY <i>Chang Cheng Chang★, Bor-Shyh Lin, Jhe-Ruei Li, Min-Ling Chen, Mei-Yen Chen, Yao-Kuang Huang</i> China Medical University Hospital-Aesthetic Medical Center, Taichung City, Taiwan; Institute of Electro-Optical Engineering/National Chiao Tung University, Taiwan; Chang Gung University of Science and Technology, Taoyuan, Taiwan; Chang Gung Memorial Hospital, Chia Yi, Taiwan
4:25 PM - 4:29 PM		Q&A
4:30 PM - 4:39 PM	18	<i>Best of Basic Science and Translational Research Session Award Recipient:</i> SMARTPHONE IMAGING OF SUBCUTANEOUS VEINS <i>William Lewis★→, Walfre Franco</i> Harvard Medical School, Boston, MA; Wellman Center for Photomedicine, Boston, MA
4:40 PM - 4:44 PM		Q&A

TIME	ABSTR	ACTIVITY
4:45 PM - 4:55 PM	LB4	RETROSPECTIVE ANALYSIS OF RADIOFREQUENCY FACE AND NECK PATIENTS AND THE IMPORTANCE OF PRE-TREATMENT MAPPING OF THE MARGINAL MANDIBULAR NERVE <i>Gabriella DiBernardo★, Barry DiBernardo, Douglas Wu</i> University of Pittsburgh, Pittsburgh, PA; New Jersey Plastic Surgery, Montclair, NJ; Cosmetic Laser Dermatology, San Diego, CA
4:56 PM - 4:59 PM		Q&A
5:00 PM - 5:10 PM	LB5	CHARACTERIZING SAFETY, PATIENT EXPERIENCE AND EFFICACY OF HYBRID FRACTIONAL LASER (1470nm & 2940nm) TREATMENTS FOR VARIOUS SKIN CONDITIONS <i>Jason Pozner, Chris Robb, Elizabeth Tanzi★, Jill Waibel</i> Sanctuary Medical Center, Boca Raton, FL; Skin & Allergy Center, Spring Hill, TN; Capital Laser and Skin Care, Chevy Chase, MD; Miami Dermatology & Laser Institute, Miami, FL
5:11 PM - 5:15 PM		Q&A

Cutaneous Applications - Abstract Session

Friday, April 7 | 1:30 PM - 5:15 PM | Room: Hall F

AMA PRA CATEGORY 1 CME CREDITS: 3.00 MAX

Educational Needs This session will explore the use of lasers and energy-based devices to treat a wide spectrum of cutaneous conditions. Controlled studies demonstrating objective evidence in support of new devices and new uses of established devices will be presented. Attendees will be encouraged to participate in discussion of the presented data. Updating current knowledge on the use of energy-based devices as well as maximizing results and minimizing complications will be a prime objective of this session.

Participants This session is for all health care practitioners, engineers, scientists, or any interested individuals working with lasers and energy-based devices. All health care personnel will benefit by learning how to maximize results of treatment of cutaneous conditions while minimizing complications.

Background Requirements Participants with a basic understanding of skin biology and physics will derive maximal benefit from the presentations, however, all meeting attendees are welcome to attend and contribute.

Instructional Content/Expected Learning Objectives Attendees will learn about what's new in the field of lasers and energy-based devices. Presentations of new devices and new uses for established devices will provide attendees with data to incorporate into practice or research.

Hot topics

- » Nanoparticles: Magic Bullets.
- » The Picosecond Revolution Continues: A Deeper Understanding of Skin Rejuvenation Techniques.
- » Skin Cancer Treatment and Prevention.

Chair(s) Mathew M. Avram, MD, JD; Kelly J. Stankiewicz, MD, FAAD

Award Speaker Gerald Goldberg, MD

TIME	ABSTR	ACTIVITY
1:30 PM - 1:35 PM		Introduction
1:36 PM - 1:51 PM		<i>Leon Goldman Memorial Award Recipient:</i> Challenges in Dermatologic Lasers: Past, Present and Future - Gerald Goldberg
SKIN CANCER		
1:52 PM - 1:58 PM	28	TREATMENT OF ACTINIC KERATOSIS OF THE CHEST USING A HYBRIDIZED 1470/2940 FRACTIONAL LASER <i>Tammie Campanali, Chris Robb★</i> Skin & Allergy Center, Spring Hill, TN; Vanderbilt University School of Medicine, Nashville, TN
1:59 PM - 2:05 PM	LB10	STAGE-SCANNING LINE-SCANNING CONFOCAL MICROSCOPE <i>Daniel Gareau★, Shane Meehan, John Carucci</i> The Rockefeller University, New York, NY; New York University, New York, NY
2:06 PM - 2:12 PM	29	<i>Best of Cutaneous Applications Session Award Recipient:</i> AN EXPANDED STUDY OF LONG-PULSED 1064nm Nd:YAG LASER TREATMENT OF BASAL CELL CARCINOMA <i>Arisa Ortiz★, Catherine DiGiorgio, Faiza Shafiq, R. Rox Anderson, Mathew Avram</i> University of California San Diego, San Diego, CA; Massachusetts General Hospital, Boston, MA

TIME	ABSTR	ACTIVITY
ACNE		
2:13 PM - 2:19 PM	30	SAFE AND EFFECTIVE TREATMENT OF ACNE VULGARIS IN SKIN TYPES V AND VI USING EXCLUSIVELY LASER THERAPY <i>Abnoeal Bakus, Dina Yaghmai, Mary Massa, Jerome Garden</i> ★ Northwestern University, Chicago, IL; Physicians Laser and Dermatology Institute, Chicago, IL; Rush Dermatology, Westmont, IL
2:20 PM - 2:26 PM	LB11	SINGLE-BLINDED RANDOMIZED, CONTROLLED TRIAL TO STUDY THE EFFECT OF LIGHT-EMITTING DIODE ON WOUND HEALING FOLLOWING LOWER EXTREMITY SURGICAL WOUNDS LEFT TO HEAL BY SECONDARY INTENTION <i>Marina Perper, Ariel Eber, Sebastian Verne, Robert Magno, Keyvan Nouri</i> ★ University of Miami, Miami, FL
2:27 PM - 2:33 PM	LB12	A COMPARATIVE STUDY OF THE EFFECTS OF A NOVEL 2010nm FRACTIONAL LASER OUTPUT ON EPIDERMAL/DERMAL TISSUE <i>Bradley Bloom</i> ★ <i>Roy Geronemus, Paul Wiener</i> Laser & Skin Surgery Center of New York, New York, NY; Light Age, Inc., Somerset, NJ
2:34 PM - 2:44 PM		Q&A
2:45 PM - 3:29 PM		BREAK
NANOPARTICLES		
3:30 PM - 3:36 PM	31	ACNE TREATMENT BASED ON SELECTIVE PHOTOTHERMOLYSIS OF SEBACEOUS FOLLICLES WITH LIGHT ABSORBING GOLD MICROPARTICLES: A EUROPEAN STUDY <i>Merete Haedersdal</i> ★, <i>Christiane Bay, Hans Lomholt, Maurice Adatto</i> Bispebjerg Hospital, Copenhagen University, Copenhagen, Denmark; The Dermatology Clinic Aalborg, Aalborg, Denmark; Skinpulse Dermatology Laser Center, Geneva, Switzerland
3:37 PM - 3:43 PM	32	TREATMENT OF MODERATE TO SEVERE ACNE WITH SNA-001 MEDIATED SELECTIVE THERMOLYSIS: A PROSPECTIVE CONTROLLED FEASIBILITY STUDY <i>Sarah Schram</i> ★, <i>Todd Harris, Paul Lizzul, Brian Zelickson</i> University of Minnesota, Minneapolis, MN; Sienna Biopharmaceuticals, Westlake Village, CA; Skin and Laser Specialists, Edina, MN
3:44 PM - 3:50 PM	33	SNA-001-MEDIATED SELECTIVE PHOTOTHERMOLYSIS FOR PERMANENT REDUCTION OF LIGHT PIGMENTED HAIR: A RANDOMIZED EVALUATOR-BLINDED FEASIBILITY STUDY <i>Mitchel Goldman</i> ★, <i>Todd Harris, Paul Lizzul</i> Cosmetic Laser Dermatology, San Diego, CA; Sienna Biopharmaceuticals, Westlake Village, CA
PHOTOAGING AND PICOSECOND		
3:51 PM - 3:57 PM	34	USING STANDARD AND HIGH PULSE COVERAGE WITH PICOSECOND LASER TREATMENT OF WRINKLES AND ACNE SCARRING: LONG TERM CLINICAL OBSERVATIONS <i>Christine Dierickx</i> ★ Skinperium Boom, Antwerp, Belgium
3:58 PM - 4:04 PM	35	COMBINED 1064nm AND 532nm FRACTIONAL PICOSECOND LASER TREATMENT OF FACIAL WRINKLES <i>Michael Gold</i> ★, <i>Brynn Thompson</i> Tennessee Clinical Research Center, Nashville, TN
4:05 PM - 4:11 PM	LB13	EFFICACY OF A NOVEL MULTI-WAVELENGTH PICOSECOND LASER FOR TREATMENT OF BENIGN PIGMENTED LESIONS AND TEXTURE IMPROVEMENT <i>Kelly Stankiewicz</i> ★, <i>Amogh Kothare</i> The Dermatology Institute of DuPage Medical Group, Naperville, IL; Cutera, Brisbane, CA
4:12 PM - 4:18 PM		Q&A
4:19 PM - 4:27 PM	37	THE COMPARATIVE CUTANEOUS AND HISTOLOGICAL CHANGES OF SKIN TYPES I-VI OVER 24 HOURS WITH FRACTIONAL PICOSECOND 532nm, 1064nm, AND 755nm <i>Emil Tanghetti</i> ★ Center for Dermatology and Laser Surgery, Sacramento, CA
4:28 PM - 4:34 PM	36	HISTOLOGICAL FINDINGS OF FLUENCE-ASSOCIATED INJURY IN CREATION OF LIQB BY PICOSECOND TREATMENT AND CORRELATION TO CLINICAL OUTCOME <i>Adriana Ribe</i> ★ RibeClinic, Barcelona, Spain

TIME	ABSTR	ACTIVITY
4:35 PM - 4:41 PM	38	PHOTOREVITALIZATION USING A NOVEL DUAL-WAVELENGTH PICOSECOND PROCEDURE – A CASE STUDY WITH 10 SUBJECTS <i>Jeremy Green</i> ★, <i>Amogh Kothare</i> University of Miami, Miami, FL; Cutera Inc., Brisbane, CA
4:42 PM - 4:48 PM	39	A RANDOMIZED, DOUBLE-BLIND, STUDY EVALUATING A 755nm PICOSECOND PULSED ALEXANDRITE LASER vs A NON-ABLATIVE 1927nm FRACTIONATED THULIUM LASER FOR THE TREATMENT OF FACIAL PHOTOPIGMENTATION AND AGING <i>Neil S. Sadick</i> ★ Weill Cornell Medicine, New York City, NY
4:49 PM - 4:55 PM	40	FRACTIONAL RADIOFREQUENCY FOR IMPROVING SKIN TEXTURE IN CHINESE <i>Samantha Shek</i> ★, <i>Chi Yeung, KY Kung, Martin MH Chung, Taro Kono, Henry H.L. Chan</i> The University of Hong Kong, Hong Kong, China; Tokai University School of Medicine, Japan
4:56 PM - 5:02 PM	41	THE USE OF MULTI-SPECTRAL IMAGING TO OBJECTIVELY EVALUATE FACIAL SKIN CHANGES FOLLOWING 1927nm FRACTIONAL THULIUM FIBER LASER TREATMENT <i>Sarah Hsu</i> ★, <i>Anne Mahoney, Robert Weiss</i> Maryland Laser, Skin and Vein Institute Baltimore, MD
5:03 PM - 5:09 PM		Q&A
5:10 PM - 5:15 PM		Conclusion

Photobiomodulation - Abstract Session

Friday, April 7 | 1:30 PM - 5:15 PM | Room: 25 B/C

AMA PRA CATEGORY 1 CME CREDITS: 3.00 MAX

Educational Needs The purpose of this session is to present and discuss the latest findings on basic mechanisms of Photobiomodulation (PBM), and pre-clinical and clinical investigations on the critical parameters, mechanisms, and effectiveness of Photobiomodulation Therapy (PBMT) for a broad range of clinical applications. Light and its photonic effects and photo-medicine in general have gained recognition as an area of innovative and novel research with significant clinical implications.

Participants Scientists, engineers, medical practitioners, individuals in industry and other health care professionals involved in biomedical applications of light are invited to participate in these sessions.

Background Requirements Participants should have an understanding of light interaction with biological tissues and basic and clinical research.

Instructional Content/Expected Learning Objectives This session will provide the latest data on basic science and pre-clinical experiments in PBM and clinical use of PBMT for a wide spectrum of applications. The participants will increase their knowledge on the state-of-the-art of PBM basic science and PBMT clinical potential.

Hot topics

- » Photobiomodulation therapy for the management of oral mucositis in cancer patients.
- » Photobiomodulation may inhibit tumor growth by stimulating the immune response.
- » Presence of opsins and cryptochromes in human skin may be photobiomodulation mediators.
- » A novel red-emitting quantum dot LED (QLED) source for photobiomodulation applications.

Chair(s) Juanita J. Anders, PhD; M. Cristina Chavantes, MD; PhD

TIME	ABSTR	ACTIVITY
1:30 PM - 1:35 PM		Introduction
1:36 PM - 1:44 PM	148	THE USE OF PHOTOBIO-MODULATION THERAPY FOR THE MANAGEMENT OF ORAL MUCOSITIS IN CANCER PATIENTS OTHER THAN HEAD AND NECK CANCER: TWO RETROSPECTIVE ANALYSES <i>Jolien Robijns★, Sandrine Censabella, Lien Holvoet, Leen Noé, Marc Brosens, Annelies Maes, Paul Bulens, Daisy Luyten, Eric Joosens, Niels Hellings, Ivo Lambrichts, Veerle Somers, Jeroen Mebis</i> Hasselt University Hasselt, Limburg, Belgium; Jessa Hospital Hasselt, Limburg, Belgium
1:45 PM - 1:47 PM		Q&A
1:48 PM - 1:56 PM	149	INHIBITION OF CHEMORESISTANCE TO 5FU BY 635nm LED IRRADIATION IN CANCER-STEM LIKE CELLS <i>Won Bong Lim★</i> Chosun University, DongGu, Gwangju, Republic of Korea
1:57 PM - 1:59 PM		Q&A
2:00 PM - 2:08 PM	150	PHOTOBIO-MODULATION INHIBITS TUMOR GROWTH <i>IN VIVO</i> BY STIMULATING IMMUNE SURVEILLANCE <i>Giulia Ottaviani★→, Valentina Martinelli, Katia Rupel, Nicoletta Caronni, Asma Naseem, Lorenzo Zandonà, Giuseppe Perinetti, Margherita Gobbo, Roberto Di Lenarda, Rossana Bussani, Federica Benvenuti, Mauro Giacca, Matteo Biasotto, Serena Zaccagna</i> International Centre for Genetic Engineering and Biotechnology, Trieste, Italy; University of Trieste, Trieste, Italy
2:09 PM - 2:11 PM		Q&A

TIME	ABSTR	ACTIVITY
2:12 PM - 2:20 PM	151	PHASE I SAFETY STUDY OF HIGH FLUENCE LIGHT EMITTING DIODE-RED LIGHT (HF-LED-RL) ON HUMAN SKIN: A SINGLE-BLIND, DOSE ESCALATION, RANDOMIZED CONTROLLED TRIAL <i>Derek Ho, Ekaterina Kraeva, Chin-Shang Li, Ted Wun, R. Rivkah Isseroff, Jared Jagdeo★</i> Sacramento VA Medical Center, Mather, CA; University of California Davis, Sacramento, CA
2:21 PM - 2:23 PM		Q&A
2:24 PM - 2:32 PM	152	PHOTOBIO-MODULATION OF NO BIOACTIVITY AND RELEASE IN THE SKIN <i>Daniel Barolet★, Greg Cormack</i> McGill University Montreal, QC, Canada
2:33 PM - 2:35 PM		Q&A
2:36 PM - 2:41 PM	LB28	PRELIMINARY ANALYSIS OF THE EFFECTS OF RED LIGHT PHOTOBIO-MODULATION THERAPY ON FEMALE BREAST CANCER PATIENTS WITH CHEMOTHERAPY-INDUCED ALOPECIA <i>Istvan Stadler, Denise Maracle, Saad Jamshed, Ralph Pennino, Rachel O'Laughlin, Raymond Lanzafame★</i> Rochester Regional Health, Rochester, NY; Lipson Cancer Center, Rochester, NY; Raymond J. Lanzafame, MD PLLC, Rochester, NY
2:42 PM - 2:44 PM		Q&A
2:45 PM - 3:30 PM		BREAK
3:31 PM - 3:39 PM	153	<i>Kerith Foundation Best of Photobiomodulation Session Award Recipient:</i> UNDERSTANDING PHOTOBIO-MODULATION FOR HUMAN WOUND HEALING <i>Irene Castellano-Pellicena★, Natallia Uzunbajakava, Vladimir A. Botchkarev, M. Julie Thornton</i> Philips Research Eindhoven, Noord-Brabant, Netherlands; Center for Skin Sciences, University of Bradford, Bradford, Yorkshire, United Kingdom
3:40 PM - 3:42 PM		Q&A
3:43 PM - 3:51 PM	154	A REVIEW OF FDA-CLEARED HOME-USE PHOTOBIO-MODULATION DEVICES FOR TREATMENT OF ANDROGENETIC ALOPECIA <i>Erin Dodd★, Margo Winter, Maria Hordinsky, Neil S. Sadick, Ronda Farah</i> University of Minnesota, Minneapolis, MN; Weill Cornell Medicine, New York, NY
3:52 PM - 3:54 PM		Q&A
3:55 PM - 4:03 PM	155	PHOTOBIO-MODULATION EFFECT ON CHILDREN'S SCARS <i>Jehan Alsharnoubi★→, Omneia Mohamed</i> Cairo University Cairo, Cairo, Egypt
4:04 PM - 4:06 PM		Q&A
4:07 PM - 4:15 PM	156	CLINICAL EVALUATION OF A DIODE LASER 1210nm ON POST-SURGICAL SCAR: RESULTS OF THE "SLASH" RCT (LASER AFTER SCAR LASER-ASSISTED SKIN HEALING) <i>Dominique Casanova★, Antoine Alliez, Claire Baptista, David Gonelli, Serge Mordon</i> University Hospital La Conception, APHM Marseille, France; University of Lille, INSERM, CHU Lille, U1189 - ONCO-THAI Lille, France
4:16 PM - 4:18 PM		Q&A
4:19 PM - 4:27 PM	157	NANO SIZED PHOTOSENSITIZERS (PS) AND IPL FOR P. ACNES TREATMENT <i>Leonardo Longo★, Olha Sheykh, Anna Maria Mileo, Ahron Gedanken, Anat Lipovsky, Dror Fixler, Inbar Yariv, Rachel Lubart</i> Institute Laser Medicine Firenze, Tuscany, Italy; Bar Ilan University, Ramat Gan, Israel
4:28 PM - 4:30 PM		Q&A
4:31 PM - 4:39 PM	LB29	LONG-TERM FOLLOW-UP OF PATIENTS WITH HYPOTHYROIDISM INDUCED BY AUTOIMMUNE THYROIDITIS SUBMITTED TO LOW-LEVEL LASER THERAPY <i>Daniilo Hofling★, M. Cristina Chavantes, Carlos Alberto Buchpiguel, Giovanni Guido Cerri, Paulo Campos Carneiro, Suemi Marui, Maria Cristina Chammas</i> University of São Paulo, São Paulo, Brazil; Nove de Julho University, São Paulo, Brazil
4:40 PM - 4:42 PM		Q&A

TIME	ABSTR	ACTIVITY
4:43 PM - 4:51 PM	158	LASER THERAPY AND GRIMALDI'S MUSCLE SHORTENING MANOEUVRE IN THE TREATMENT OF TRAUMATIC SPINAL CORD INJURIES <i>Diego Longo</i> ★→, <i>Leonardo Longo, Paolo Lippi, Giulio Cherubini, Vanessa Mangè</i> Institute of Laser Medicine, International Academy Laser Medicine and Surgery, Firenze, Italy; University of Florence, Florence, France
4:52 PM - 4:54 PM		Q&A
4:55 PM - 5:03 PM	159	PHOTOBIMODULATION IN NEURO-ISCHEMIC ULCERS- NOVEL METHOD FOR LIMB SALVAGE IN DIABETIC FOOT-PRELIMINARY REPORT <i>Arun G. Maiya</i> ★→ SOAHS Manipl University, Manipal, Karnataka, India
5:04 PM - 5:06 PM		Q&A
5:07 PM - 5:12 PM		Panel Discussion
5:13 PM - 5:15 PM		Conclusion

Ask Me Anything - Special Event (Non-CME)

Friday, April 7 | 3:10 PM-3:30 PM | Room: Halls D/E

Hosts Robert A. Weiss, MD; Tina S. Alster, MD

Description This event provides attendees with the opportunity to listen to and participate in an energetic, open questions/answers discussion. Inquiries to the session hosts may focus on devices, clinical approaches and personal recommendations for practice.

TIME	ACTIVITY
3:10 PM-3:30 PM	Open Q&A - Robert A. Weiss, Tina S. Alster

Laser Dental Applications - Abstract Session

Friday, April 7 | 3:30 PM - 5:15 PM | Room: 31 B/C

AMA PRA CATEGORY 1 CME CREDITS: 1.75 MAX

Educational Needs To outline the breadth of applications of light based devices in both basic science as well as clinical dentistry.

Participants Clinical dentists, oral surgeons, other dental specialists, and dental researchers.

Background Requirements Craniofacial biology, microbiology, optics and medicine-dentistry.

Instructional Content/Expected Learning Objectives This session will highlight the wide range of potential applications of light-based technologies in basic science and clinical dentistry and provide a biological rationale with the desired clinical outcome. The participants will learn the utility of using specific light-based modalities to address their clinical needs in routine dentistry and oral surgery. In addition, novel applications in dental medicine will be presented, which may offer treatment options previously unavailable. Expanding use of lasers and light-based technologies in dentistry has created a lag in clinical literature that will be addressed.

Hot topics

- » Super pulse diode technology with smart temperature feedback.
- » Non-contact technique of debonding porcelain laminate veneers with Er:YAG.
- » Debonding ceramic orthodontic brackets with diode laser.

Chair(s) Christopher J. Walinski, DDS

TIME	ABSTR	ACTIVITY
3:30 PM - 3:35 PM		Introduction
3:36 PM - 3:42 PM	118	Best of Laser Dental Session Award Recipient: COMBINING SUPER PULSE DIODE TECHNOLOGY AND SMART TEMPERATURE FEEDBACK FOR FAST AND PRECISE SOFT-TISSUE SURGERY <i>Kenneth Magid, Ilya Yaroslavsky★, Dmitri Boutoussov, Alexander Vybornov, Igor Perchuk, Gregory Altshuler</i> Advanced Dentistry of Westchester, Harrison, NY; IPG Medical, Marlborough, MA; Biolase, Inc., Irvine, CA
3:43 PM - 3:49 PM	119	A 980nm DIODE LASER CLOT FORMATION OF THE RABBIT'S DENTAL SOCKETS AFTER TEETH EXTRACTION <i>Balsam Mirdan★</i> University of Kirkuk, Kirkuk, Iraq
3:50 PM - 3:56 PM	120	PERIODONTAL TREATMENT COMBINED TO ANTIMICROBIAL PHOTODYNAMIC THERAPY: EXPERIMENTAL MODEL <i>Bianca Godoy-Miranda★, Estefani Belinello-Souza, Letícia Alvarenga, Cintia Leal, Carolina Leite, Tairine Lima, Jhosepher Previati- Oliveira, Anderson Freitas, Lucas de Pretto, Adjaci Fernandes, Renato Prates</i> Nove de Julho University, São Paulo, Brazil; Center for Lasers and Applications - IPEN-CNEN/SP, São Paulo, Brazil; Institute of Biomedical Engineering, Unicastelo, São Paulo, Brazil
3:57 PM - 4:02 PM		Q&A
4:03 PM - 4:09 PM	121	OCT AND FLUORESCENCE INFLUENCE ON SCREENING DECISIONS FOR ORAL MALIGNANT LESIONS <i>Carmen Todea★, Silvana Canjau, Cosmin Sinescu, Virgil Duma, Adrian Podoleanu</i> "Victor Babes" University of Medicine and Pharmacy, Timisoara, Timis, Romania; "Aurel Vlaicu" University Arad, Romania; University of Kent Canterbury, Kent, United Kingdom

TIME	ABSTR	ACTIVITY
4:10 PM - 4:16 PM	122	EVALUATION OF HARDNESS OF BOVINE DENTAL ENAMEL WITH WHITE SPOT LESIONS FOLLOWING IRRADIATION WITH CARBON DIOXIDE LASER: A PILOT STUDY <i>Luiz Henrique Cabral Oliveira★→, Marcia Regina Oliveira, Pedro Henrique Cabral Oliveira, Sandra Bussadori, Daniela Fatima Teixeira Silva, M. Cristina Chavantes, Anna Carolina Horliana</i> Nove de Julho University, São Paulo, Brazil; Guarulhos University, Guarulhos, Brazil
4:17 PM - 4:22 PM		Q&A
4:23 PM - 4:29 PM	LB24	ELECTROMYOGRAPHIC EVALUATION OF A LOW-LEVEL LASER PROTOCOL FOR THE TREATMENT OF TEMPOROMANDIBULAR DISORDER: A RANDOMIZED, CONTROLLED, BLIND TRIAL <i>Camila Haddad Leal de Godoy, Lara Jansiski Motta, Eugenio Jose Garcia, Kristianne Fernandes, Raquel Agnelli Mesquite-Ferrari, Cristiane Miranda Franca, Fabiano Politti, Sandra Bussadori, Ravana Sfalcin★</i> Nove de Julho University, São Paulo, Brazil
4:30 PM - 4:36 PM	124	DEBONDING OF CERAMICS SELF-LIGATING BRACKETS BY DIODE LASER <i>Natasa Radica★, Predrag Dukic, Neven Vidovic, Dragana Gabric, Josip Skaricic, Senka Mestrovic</i> Private Dental Practice for Orthodontics, Split, Croatia; University of Split, Split, Croatia; University of Zagreb, Zagreb, Croatia
4:37 PM - 4:43 PM	125	CO₂ LASER FOR DENTAL ALUMINA CERAMIC FRAMEWORK WELDING <i>Stéphane da Silva Reis, Adriana Rios Mafra Ferrari, André Guaraci De Vito Moraes, Marcello Rubens Barsi Andreeta, Igor Studart Medeiros, Ricardo Sgura★</i> Nove de Julho University, São Paulo, Brazil; Universidade Federal de São Carlos, São Carlos, Brazil; University of São Paulo, São Paulo, Brazil
4:44 PM - 4:49 PM		Q&A
4:50 PM - 4:56 PM		Intrapulpal Thermal Increment Measurements and Duration of Class II Cavity Preparations Made with Er,Cr:YSGG Laser - Christopher J. Walinski
4:57 PM - 5:03 PM	LB25	USING A MINIATURIZED OPTICAL COHERENCE TOMOGRAPHY PROBE TO ASSESS INTRAOPERATIVE TUMOR MARGINS <i>Jessica Ho★, Dan Ho, Anne Tran, Sumsum Sunny, Andrew Heidari, Bonney James, Amirtha Suresh, Vijay Pillai, Zhongping Chen, Petra Wilder-Smith</i> Beckman Laser Institute, Irvine, CA
5:04 PM - 5:10 PM	LB26	A NOVEL LOW-COST MINIATURE PROBE FOR ORAL DIAGNOSIS <i>Thair Takesh★, Afarin Golabgir Anbarani, Jessica Ho, Vania Firmalino, Ron Liang, Petra Wilder-Smith</i> University of California, Irvine, CA; University of Arizona, Tucson, AZ
5:11 PM - 5:15 PM		Q&A and Conclusion

Tech Connect - Special Event (Non-CME)

Friday, April 7 | 5:30 PM - 7:30 PM | Room: Hall F

Educational Needs

- » Novice practitioners just introducing or having minimal experience using light energy, radio-frequency, ultrasound and/or cryolipolysis devices and/or more experienced practitioners who are interested in expanding their practice to new applications using alternative devices.
- » Experienced (expert) practitioners interested in the comparison and contrasting of devices and procedural approaches used by other experts.

Participants No specific participant details.

Background Requirements No specific background requirements.

Instructional Content/Expected Learning Objectives As a result of expert panel members sharing their perspectives regarding specific technologies and procedural approaches, participants will be able to:

- » Learn about a broad spectrum of devices that can be considered for use in clinical practice.
- » Gain introduction to the use of specific devices for specific clinical procedures.
- » Compare and contrast specific devices for specific procedures.
- » Understand the benefits and disadvantages of using specific devices for specific procedures.
- » Determine which device(s) to purchase for use in their clinical practice.
- » Understand the limitations of devices which they currently use in their practice.
- » Interpret and understand information provided by companies which vend devices and services.
- » Compare and contrast features/benefits of technology so participants better understand the nuances of systems and how this plays out in clinical practice.

Director(s) Roy G. Geronemus, MD; Christopher B. Zachary, MBBS, FRCP

Speaker(s) Red Alinsod, MD; Eric F. Bernstein, MD, MSE; Jeremy A. Brauer, MD; Jeffrey S. Dover, MD, FRCPC; Linda K. Franks, MD; David J. Goldberg, MD, JD; Mitchel P. Goldman, MD; Nathan L. Guerette, MD, FPMRS, FACOG; Michael S. Kaminer, MD; Suzanne L. Kilmer, MD; Jason N. Pozner, MD; E. Victor Ross, MD; Elizabeth L. Tanzi, MD; Robert A. Weiss, MD; Brian D. Zelickson, MD

TIME	SPEAKER	TOPIC
5:30 PM - 5:32 PM		Introduction - Roy G. Geronemus, Christopher B. Zachary
5:33 PM - 5:37 PM	Jeffrey S. Dover	Non-Invasive Body Contouring
5:38 PM - 5:42 PM	Jason N. Pozner	
5:43 PM - 5:47 PM	Elizabeth L. Tanzi	
5:48 PM - 5:55 PM		Q&A
5:56 PM - 6:00 PM	Linda K. Franks	Neck Tightening & Submandibular Fat Reduction
6:01 PM - 6:05 PM	Michael S. Kaminer	
6:06 PM - 6:10 PM	Suzanne L. Kilmer	
6:11 PM - 6:18 PM		Q&A
6:19 PM - 6:23 PM	Mitchel P. Goldman	Vaginal Rejuvenation & Functional Improvement
6:24 PM - 6:28 PM	Nathan L. Guerette	
6:29 PM - 6:33 PM	Red Alinsod	
6:34 PM - 6:41 PM		Q&A

TIME	SPEAKER	TOPIC
6:42 PM - 6:46 PM	Brian D. Zelickson	Vascular Treatments & Rosacea
6:47 PM - 6:51 PM	E. Victor Ross	
6:52 PM - 6:56 PM	Eric F. Bernstein	
6:57 PM - 7:04 PM		Q&A
7:05 PM - 7:09 PM	Robert A. Weiss	Pigmented Lesions & Tattoos
7:10 PM - 7:14 PM	David J. Goldberg	
7:15 PM - 7:19 PM	Jeremy A. Brauer	
7:20 PM - 7:27 PM		Q&A
7:28 PM - 7:30 PM		Conclusion - Roy G. Geronemus, Christopher B. Zachary

Basic Mechanisms of Photobiomodulation - Workshop

Saturday, April 8 | 7:00 AM - 9:00 AM | Room: 28 A/B

AMA PRA CATEGORY 1 CME CREDITS: 2.00 MAX | CE CONTACT HOURS: 2.00 MAX

Educational Needs The use of “low-level” light applications termed photobiomodulation is an expanding field with a broad range of applications in medicine, rehabilitation, dentistry and veterinary medicine. To appreciate how light can have therapeutic effects on many tissues and organs it is essential to understand the molecular mechanisms involved. Experts will focus on the basics of light transmission through tissues and absorption by cytochromes in cells and tissues, and the role of signaling molecules, biological responses of cells and tissues to photons, and mechanistic convergence of photobiomodulation and clinical effects. Clinical and pre-clinical applications, including recent work on traumatic brain injury, nerve injury and repair, muscular performance and recovery and effects of photobiomodulation on stem cells will be discussed.

Participants Scientists, engineers, health care professionals, and industrial representatives interested in low level light applications.

Background Requirements Any scientist or health care provider working with energy based devices would benefit from understanding these basic light-biological interactions and how these processes may be occurring in many currently used energy based clinical modalities.

Instructional Content/Expected Learning Objectives At the conclusion of this workshop, participants will:

- » Understand the photobiological basis for light absorption by chromophores.
- » Be aware of specific wavelengths absorbed by different chromophores.
- » Gain knowledge of the depth of penetration of various wavelengths of light.
- » Be aware of the current proof for the mechanistic basis of photobiomodulation by understanding the role of different signaling molecules.
- » Appreciate the breadth of biological responses of cells and tissues after light treatments.
- » Understand how all this mechanistic proof translates to a clinical efficacy.

Director(s) Juanita J. Anders, PhD; Raymond J. Lanzafame, MD, MBA, FACS

Faculty Praveen Arany, DDS, PhD; David Baxter, PhD

TIME	ACTIVITY
7:00 AM - 7:05 AM	Introduction and Pre-Test
7:06 AM - 7:26 AM	Biological Chromophores, Action Spectra vs Absorption Spectra, Wavelength and Target Tissue and Signaling Molecules in Photobiomodulation - Juanita J. Anders
7:27 AM - 7:47 AM	The Role of Photobiomodulation in Management of Musculoskeletal Injury and Pain - David Baxter
7:48 AM - 7:52 AM	Q&A
7:53 AM - 8:13 AM	Biological Responses to Photobiomodulation in Traumatic Brain Injury and Neurological Disorders - Juanita J. Anders
8:14 AM - 8:34 AM	Photobiomodulation and Stem Cells - Praveen Arany
8:35 AM - 8:55 AM	Photobiomodulation and Clinical Effects: A Convergence of Mechanisms - Raymond J. Lanzafame
8:56 AM - 9:00 AM	Q&A, Conclusion and Post-Test

Laser and Energy-Based Treatments for Leg Veins - Workshop

Saturday, April 8 | 7:00 AM - 9:00 AM | Room: 25 B/C

AMA PRA CATEGORY 1 CME CREDITS: 2.00 MAX | CE CONTACT HOURS: 2.00 MAX

Educational Needs Physicians treating patients with venous disease need to understand the algorithm for evaluating venous insufficiency, treating small and large vein disease and managing complications.

Participants This session is indicated for physicians interested in treating large and small vein disease.

Background Requirements This session is intended for both novice and advanced practitioners.

Instructional Content/Expected Learning Objectives

- » Identify the anatomy and pathophysiology of superficial venous disease.
- » Identify surgical and endovascular strategies for managing large vein disease. New device and techniques will be highlighted.
- » Understand considerations for selection of sclerosant agent and laser devices in the treatment of varicose and telangiectatic leg veins.
- » Minimize the adverse events of leg vein treatments.

Director(s) Margaret Wing-Yan Mann, MD; Vineet Mishra, MD; Robert A. Weiss, MD

Faculty Daniel P. Friedmann, MD; Mitchel P. Goldman, MD; Kasuo Miyake, MD; Margaret A. Weiss, MD

TIME	ACTIVITY
7:00 AM - 7:10 AM	Introduction and Pre-Test
7:11 AM - 7:26 AM	Review of Lower Leg Venous Anatomy and Physiology - Daniel P. Friedmann
7:27 AM - 7:37 AM	Treatment of Truncal Varicosities: Endovenous Ablation - Margaret Wing-Yan Mann
7:38 AM - 7:43 AM	Treatment of Large Vessels: Phlebectomy and Duplex Guided Sclerotherapy - Vineet Mishra
7:44 AM - 7:58 AM	Treatment of Vessels: Cryo-Laser and Cryo-Sclerotherapy - Kasuo Miyake
7:59 AM - 8:14 AM	Treatment of Small Vessels: Sclerotherapy - Mitchel P. Goldman
8:15 AM - 8:30 AM	Treatments of Small Vessels: Lasers / Devices - Robert A. Weiss
8:31 AM - 8:46 AM	Complications - Margaret A. Weiss
8:47 AM - 9:00 AM	Q&A, Conclusion and Post-Test

Laser Safety in the Practice Environment - Workshop

Saturday, April 8 | 7:00 AM - 9:00 AM | Room: 30 C/D

AMA PRA CATEGORY 1 CME CREDITS: 2.00 MAX | CE CONTACT HOURS: 2.00 MAX

Educational Needs The educational activity will address the specifics on collaborative practices within a medical aesthetic facility, the safety control measures associated with each device, national and international laser safety regulations and standards, along with the state specifics of physician delegation and nursing/allied health scope of practice. This activity will address knowledge gap issues and provide information and strategies to incorporate evidence-based best practices for patient safety and the achievement of better outcomes.

Participants The activity is designed for the beginner and experienced physicians, allied health personnel and industry members who are involved in a clinical based aesthetic practice.

Background Requirements No background required, just a willingness to learn.

Instructional Content/Expected Learning Objectives At the conclusion of this session, attendees will be able to:

- » Identify the different types of professionals and their scopes of practice working within a collaborative aesthetic facility.
- » Apply the ANSI standards along with other national safety regulations for the future care of patients.
- » Incorporate strategies in order to analyze the medical-legal aspects of a collaborative aesthetic practice in a variety of states.

Director(s) Eric F. Bernstein, MD, MSE; Rebecca L. Sprague, RN, NP-C

Faculty Mathew M. Avram, MD, JD; Patricia A. Owens, RN, MHA, CMLSO, CNOR

TIME	ACTIVITY
7:00 AM - 7:05 AM	Introduction and Pre-Test
7:06 AM - 7:26 AM	Managing Compliance in a Multiple-Device Practice - Rebecca L. Sprague
7:27 AM - 7:47 AM	Laser and IPL Ocular Injuries: Who, What, When, and How - Patricia A. Owens
7:48 AM - 7:58 AM	Q&A
7:59 AM - 8:09 AM	Legal Issues with Energy-Based Devices - Mathew M. Avram
8:10 AM - 8:49 AM	Safety For All Devices Around the World - Eric R. Bernstein
8:50 AM - 9:00 AM	Q&A, Conclusion and Post-Test

Non-Invasive Body Contouring - Workshop

Saturday, April 8 | 7:00 AM - 9:00 AM | Room: 31 B/C

AMA PRA CATEGORY 1 CME CREDITS: 2.00 MAX | CE CONTACT HOURS: 2.00 MAX

Educational Needs

- » Provide an overview of body contouring devices and how they specifically affect adipocyte viability.
- » Discuss specific devices in detail with a review of the literature and personal experience.
- » Discuss ways to enhance results by combining technologies.

Participants All physicians practicing surgical or non-surgical body contouring in their offices.

Background Requirements Participants should have knowledge of anatomy of the fat compartments of the trunk, extremities and face. Participants must also have familiarity of current classification for body contouring devices.

Instructional Content/Expected Learning Objectives It is expected that participants will be able to more critically judge the results from body contouring devices as well as better understand the mechanism of action on fat cells.

Director(s) Mathew M. Avram, MD, JD; Michael S. Kaminer, MD

Faculty Lawrence S. Bass, MD; David J. Goldberg, MD, JD; Bruce E. Katz, MD; Elizabeth L. Tanzi, MD; Robert A. Weiss, MD

TIME	ACTIVITY
7:00 AM - 7:05 AM	Introduction and Pre-Test
7:06 AM - 7:26 AM	Cryolipolysis, Including Submental Fat - Elizabeth L. Tanzi
7:27 AM - 7:42 AM	Radiofrequency - David J. Goldberg
7:43 AM - 7:58 AM	Ultrasound Technologies - Robert A. Weiss
7:59 AM - 8:12 AM	Q&A
8:13 AM - 8:28 AM	Laser and Low-Level Light Treatments (LLLT) - Lawrence S. Bass
8:29 AM - 8:44 AM	Laser Lipolysis / Liposuction - Bruce E. Katz
8:45 AM - 9:00 AM	Q&A, Conclusion and Post-Test

Periorbital Therapies and Rejuvenation - Workshop

Saturday, April 8 | 7:00 AM - 9:00 AM | Room: Hall F

AMA PRA CATEGORY 1 CME CREDITS: 2.00 MAX | CE CONTACT HOURS: 2.00 MAX

Educational Needs This course will provide attendees with information on basic periorbital anatomy and patient evaluation techniques. The attendees will be educated on complications resulting from treatments to this area and how to manage these post-procedure complications and prevent them from happening. They will also learn about new techniques for periorbital rejuvenation and pearls for common laser, non-laser devices and injectable treatments. Finally, course attendees will have an improved ability to evaluate and educate patients in periorbital rejuvenation options.

Participants The target audience can be any physician, PA, nurse or other physician extender who may be interested in learning how to improve signs of periorbital aging with rejuvenation techniques.

Background Requirements A background knowledge of periocular aesthetics and basic laser and injectables techniques are helpful.

Instructional Content/Expected Learning Objectives

- » Knowledge of periocular anatomy and patient evaluation.
- » Improved knowledge of laser treatments (ablative and non-ablative), as well as new technologies, for periocular use and rejuvenation.
- » Knowledge and understanding of using neuromodulators in the periocular area.
- » Knowledge and understanding, as well as new techniques, of using injectable facial fillers in the periocular area.
- » Understanding of post-procedure complications from periorbital treatments and how to manage and prevent these complications.

Director(s) Brian S. Biesman, MD; Jason D. Bloom, MD

Faculty Joel L. Cohen, MD; Melanie Palm, MD; Jason N. Pozner, MD; Christopher B. Zachary, MD

TIME	ACTIVITY
7:00 AM - 7:05 AM	Introduction and Pre-Test
7:06 AM - 7:20 AM	Periorbital Anatomy & Patient Considerations for Aesthetic Procedures - Jason D. Bloom
7:21 AM - 7:34 AM	Forehead, Eyebrow & Temple Therapies for Facial Harmony - Joel L. Cohen
7:35 AM - 7:49 AM	Resurfacing Techniques (Ablative, Non-Ablative & Fractional) to the Periorbital Area - Christopher B. Zachary
7:50 AM - 8:04 AM	Novel Technologies & Treatments for Periocular Rejuvenation - Brian S. Biesman
8:05 AM - 8:19 AM	Periorbital Upper & Lower Eyelid Improvements to Combat Periocular Aging - Melanie Palm
8:20 AM - 8:34 AM	Management of Periorbital Complications from Aesthetic Procedures - Jason N. Pozner
8:35 AM - 9:00 AM	Q&A, Conclusion and Post-Test

Basic Science and Translational Research - Abstract Session

Saturday, April 8 | 8:00 AM - 9:00 AM | Room: 30 A/B

AMA PRA CATEGORY 1 CME CREDITS: 1.00 MAX

Educational Needs These sessions promote understanding of:

- » The use of light in medicine for imaging and diagnostics, in which photons interrogate the structure and function of cells and tissue.
- » The design of light-based diagnostic devices and techniques.
- » Basic processes of light interaction with tissue and cells.
- » The use of imaging for guiding intervention.

Participants Clinicians, scientists, researchers, developers.

Background Requirements Basic understanding of optical imaging and light tissue interactions.

Instructional Content/Expected Learning Objectives Participants will learn about:

- » New imaging strategies for guiding patient care.
- » How optical imaging can be used to visualize tissue function.
- » Understand molecular events in light-mediated treatments
- » How to monitor interventions.

Hot topics

- » Structural and Functional Imaging.
- » Point of Care Multimodal Imaging.
- » Image-Guided Interventions.

Chair(s) Walfre Franco, PhD; Gracie Vargas, PhD

TIME	ABSTR	ACTIVITY
8:00 AM - 8:02 AM		Introduction
IMAGE GUIDED APPLICATIONS I		
8:03 AM - 8:11 AM	19	LABEL-FREE ANALYSIS OF DYNAMIC METABOLIC CHANGES USING FLIM Michael Evers★→, Nunciada Salma, Reginald Birngruber, Conor L. Evans, Dieter Manstein Cutaneous Biology Research Center, Massachusetts General Hospital, Harvard Medical School, Boston, MA; Institute for Biomedical Optics, University of Luebeck, Luebeck, Germany; Wellman Center for Photomedicine, Massachusetts General Hospital, Harvard Medical School, Boston, MA
8:12 AM - 8:13 AM		Q&A
8:14 AM - 8:21 AM	20	pHLIP FLUORESCENCE IMAGING FOR DELINEATING BREAST CANCER Xin Feng★→, Anna Moshnikova, Oleg Andreev, Yana Reshetnyak, Ashraf Khan, Anna Yaroslavsky University of Massachusetts Lowell, Lowell, MA; University of Rhode Island, Kingston, RI
8:22 AM - 8:24 AM		Q&A
8:25 AM - 8:33 AM	21	OPTICAL COHERENCE TOMOGRAPHY IMAGE-GUIDED SMART LASER KNIFE Nitesh Katta★, Austin Mcelroy, Arnold Estrada, Madison Christine Round, Robert Streit, Thomas Milner University of Texas at Austin, Austin, TX
8:34 AM - 8:36 AM		Q&A

TIME	ABSTR	ACTIVITY
8:37 AM - 8:45 AM	22	MULTIMODALITY OPTICAL CHARACTERIZATION OF IMPAIRED WOUND HEALING IN A PRINCIPAL MODEL OF DIABETES MELLITUS Mayer Saidian★, Adriend Ponticorvo, Rebecca Rowland, Melissa Baldado, Griffin Lentsch, Joshua Williams, Maaikie Pronda, Mihaela Balu, Michael Alexander, Hossein S. Yazdi, Antonio Florez, Li Shiri, Tomas Stromberg, Jonathan R.T. Lakey, Bernard Choi, Anthony Durkin, Roni Kohen, Bruce Tromberg The Institute for Drug Research, The Hebrew University of Jerusalem, Jerusalem, Israel; University of California Irvine, Irvine, CA; Beckman Laser Institute, University of California Irvine, Irvine, CA; Linköping University, Linköping, Sweden
8:46 AM - 8:48 AM		Q&A
8:49 AM - 8:57 AM	23	OCT IMAGING OF SMALL BLOOD VESSEL REMODELING AFTER FRACTIONAL PHOTOTHERMOLYSIS Malte Casper★→, Garuna Kositratna, Hinnerk Schulz-Hildebrandt, Gereon Huettmann, Dieter Manstein Cutaneous Biology Research Center, Massachusetts General Hospital, Boston, MA; Institute for Biomedical Optics, Luebeck, Germany
8:58 AM - 9:00 AM		Q&A

Moving from the Lab to the Clinic - Special CME Session

Saturday, April 8 | 9:30 AM - 10:30 AM | Room: Hall F

AMA PRA CATEGORY 1 CME CREDITS: 1.00 MAX | CE CONTACT HOURS: 1.00 MAX

Educational Needs The activity addresses translation of technologies and concepts from the laboratory to evaluation and implementation in a clinical environment. The audience will learn about both successes, struggles, and unexpected considerations related to this process.

Participants This activity is designed for physicians interested in development and evaluation of new energy-based technologies and concepts.

Background Requirements Prospective participants do not require any special background requirements.

Instructional Content/Expected Learning Objectives Participants are expected to learn about:

- » Emerging energy-based technologies and concepts that are being translated from the laboratory to clinical environment.
- » Important considerations, related to both the scientist/engineer and clinical perspectives, associated with translational research involving energy-based technologies and concepts.

Director(s) Gabriela Apiou, PhD; Bernard Choi, PhD

Faculty Jing Dong PhD; Cadman L. Leggett, MD; Kirshwer S. Nehal MD; Milind Rajadhyaksha, PhD

TIME	ACTIVITY
9:30 AM - 9:35 AM	Introduction
9:36 AM - 9:46 AM	Skin - Scientist / Engineer - Milind Rajadhyaksha
9:47 AM - 9:57 AM	Skin - Clinician - Kishwer S. Nehal
9:58 AM - 10:08 AM	GI - Clinician - Cadman L. Leggett
10:09 AM - 10:19 AM	GI - Scientist / Engineer - Jing Dong
10:20 AM - 10:30 AM	Q&A and Conclusion

Cutting Edge: Laser and Skin - Special CME Session

Saturday, April 8 | 10:30 AM - 12:00 PM | Room: Hall F

AMA PRA CATEGORY 1 CME CREDITS: 1.50 MAX | CE CONTACT HOURS: 1.50 MAX

Educational Needs Clinicians, health professional representatives, scientists, engineers, and industry representatives need big-picture understanding of the success and limitations of current laser and light-based treatment for challenging medical conditions, and of the cutting-edge research that may someday lead to an improvement in the standard care.

Participants All attendees of the ASLMS Annual Conference.

Background Requirements Attendees are not required to have any prior knowledge of laser medicine or basic science.

Instructional Content/Expected Learning Objectives Leading clinicians and scientific researchers will discuss state-of-the-art and future care for patients with challenging medical conditions. This knowledge may lead to increased cooperation among conference attendees and new research directions.

Director(s) R. Rox Anderson, MD; J. Stuart Nelson, MD, PhD

Faculty Yakir Levin, MD, PhD; Dieter Manstein, MD, PhD; E. Victor Ross, MD; Iris Rubin, MD; Robert A. Weiss, MD

Award Speaker Melanie C. Grossman, MD

TIME	ACTIVITY
10:30 AM - 10:32 AM	Introduction
10:33 AM - 10:43 AM	<i>Ellet H. Drake Memorial Award Recipient:</i> My Unexpected Journey Through Laser Hair Removal - Melanie C. Grossman
10:44 AM - 10:55 AM	A Path to Curing Port Wine Stains - Iris Rubin
10:56 AM - 11:06 AM	The (Upcoming) Era of Image-guided Lasers - Yakir Levin
11:07 AM - 11:17 AM	Q&A
11:18 AM - 11:28 AM	Non-Invasive Skin Tightening: Is it Becoming Reality? - Robert A. Weiss
11:29 AM - 11:39 AM	Advances in Pulsed Dye Laser Technology - E. Victor Ross
11:40 AM - 11:50 AM	New Frontiers - Dieter Manstein
11:51 AM - 12:00 PM	Q&A and Conclusion

Clinical Pearls to Start Your Career - Special CME Session

Saturday, April 8 | 1:30 PM - 5:30 PM | Room: 28 C/D/E

AMA PRA CATEGORY 1 CME CREDITS: 3.25 MAX

Educational Needs This activity addresses the need for clinical pearls to increase understanding, competence, and performance with starting a clinical practice.

Participants This activity is designed for physicians, residents, and fellows that are interested in learning more about starting a clinical practice and/or issues related to the first years of clinical practice.

Background Requirements This activity requires a medical degree and basic knowledge of clinical and laser medicine.

Instructional Content/Expected Learning Objectives

- » Discuss issues pertaining to starting an academic or private practice career.
- » Understand the available post-residency fellowships and how they incorporate laser medicine.
- » Discuss how to grow a clinical research practice.
- » Summarize key business facts to improve overall practice and highlight which laser and energy-based modalities are worth investing in.
- » Understand how to develop an appropriate, meaningful relationship with industry.
- » Learn how to maintain a healthy work-life balance while navigating regulatory and insurance hurdles and building a social media presence.

Director(s) Jeremy A. Brauer, MD; Daniel P. Friedmann, MD

Faculty Murad Alam, MD, MSCI; Richard Bankowski; Vineet Mishra MD; Sheila Nazarian, MD; Utpalkumar Patel, MD, PhD; Heidi Prather, MD; E. Victor Ross, MD; Nazanin A. Saedi, MD

TIME	ACTIVITY
1:30 PM - 1:35 PM	Introduction
1:36 PM - 1:49 PM	Starting Your Practice: Academic - Nazanin A. Saedi
1:50 PM - 2:03 PM	Starting Your Practice: Private - Jeremy A. Brauer
2:04 PM - 2:17 PM	Post-Residency Fellowships - Heidi Prather
2:18 PM - 2:31 PM	Managing Social Media - Sheila Nazarian
2:32 PM - 2:44 PM	Q&A
2:45 PM - 3:30 PM	BREAK
3:31 PM - 3:45 PM	Business Pearls - Utpalkumar Patel
3:46 PM - 4:00 PM	Investing in the Right Devices - E. Victor Ross
4:01 PM - 4:15 PM	Building an Industry Relationship - Richard Bankowski
4:16 PM - 4:29 PM	Q&A
4:30 PM - 4:44 PM	Starting a Clinical Research Practice - Daniel P. Friedmann
4:45 PM - 4:59 PM	Maintaining a Work-Life Balance - Vineet Mishra
5:00 PM - 5:14 PM	Decoding the Initials - Murad Alam
5:15 PM - 5:30 PM	Q&A and Conclusion

PAPDT-PDT - Abstract Session

Saturday, April 8 | 1:30 PM - 5:30 PM | Room: 30 C/D

AMA PRA CATEGORY 1 CME CREDITS: 3.25 MAX

Educational Needs These sessions will highlight the basic science and clinical applications of Photodynamic Therapy. PDT involves the use of light and a photosensitizing agent to ablate tumors and infections, state-of-the-art treatment will be reviewed as well as mechanisms of action.

Participants Scientists, physicians, students, nurses and industry representatives.

Background Requirements No particular background requirements.

Instructional Content/Expected Learning Objectives Participants will identify gaps in their knowledge, competence and performance.

Hot topics

- » New techniques involving light to treat cancer.
- » The use of daylight to treat skin cancer.
- » Innovative treatment of brain tumors with light.
- » The use of light to kill bacterial infections.

Chair(s) Ron R. Allison, MD; Andres Mar Erlendsson, MD, PhD; Merete Haedersdal, MD, PhD, DMSc

Speaker(s) Macrene R. Alexiades, MD, PhD; Merrill A. Biel, MD, PhD; Keith A. Cengel, MD, PhD; Thomas S. Mang, PhD; Serge R. Mordon, PhD

TIME	ABSTR	ACTIVITY
1:30 PM - 1:49 PM		Clinical PDT Update: Dermatology - Macrene R. Alexiades
1:50 PM - 1:59 PM		Clinical PDT Update: ENT - Merrill A. Biel
2:00 PM - 2:09 PM		Clinical PDT Update: Thoracic - Keith A. Cengel
2:10 PM - 2:19 PM		Clinical PDT Update: GI - Thomas S. Mang
2:20 PM - 2:29 PM		Clinical PDT Update: CNS - Serge R. Mordon
2:30 PM - 2:39 PM		Clinical PDT Update: Illumination - Serge R. Mordon
2:40 PM - 2:44 PM		Q&A
2:45 PM - 3:29 PM		BREAK
3:30 PM - 3:31 PM		Abstract Session Introduction - Andres Mar Erlendsson; Merete Haedersdal
3:32 PM - 3:37 PM	136	SYNERGISTIC EFFECT OF SIMULTANEOUS CHEMOTHERAPY AND PHOTODYNAMIC THERAPY Ron R. Allison★, Thomas Mang, Frank Pilkiewicz, Steve Rychnovsky MMG, Greenville, NC; University of Buffalo, Buffalo, NY; Adgero, Princeton, NJ
3:38 PM - 3:40 PM		Q&A
3:41 PM - 3:46 PM	137	SPLIT CHEST STUDY OF REJUVENATION USING A LOW ENERGY THULIUM 1927nm LASER PRIOR TO APPLICATION OF AMINOLEVULINIC ACID (ALA) AND PHOTODYNAMIC THERAPY (PDT) vs ALA-PDT ALONE Shannon Hernandez, Jennifer Croix★, Anne Chapas Union Square Laser Dermatology, New York, NY
3:47 PM - 3:49 PM		Q&A
3:50 PM - 3:55 PM	138	DAYLIGHT PDT: SOUTHERN CALIFORNIA EXPERIENCE Brandon Coakley★, Christopher Zachary University of California Irvine, Irvine, CA
3:56 PM - 3:58 PM		Q&A

TIME	ABSTR	ACTIVITY
3:59 PM - 4:04 PM	139	PHOS-ISTOS: A NEW SOLUTION FOR PHOTODYNAMIC TREATMENT OF ACTINIC KERATOSIS Claire Vicentini, Henry Abi-Rached, Elise Thecua, Pascal Deleporte, Fabienne Lecomte, Laurent Mortier, Anne-Sophie Vignion, Rolf-Markus Szeimies, Serge Mordon★ University Lille, Lille, France; Knappschafts-Krankenhaus Recklinghausen, Recklinghausen, Germany
4:05 PM - 4:07 PM		Q&A
4:08 PM - 4:13 PM	140	A RANDOMIZED, DOUBLE-BLIND, PLACEBO-CONTROLLED CLINICAL TRIAL EVALUATING THE ROLE OF SYSTEMIC ANTIHISTAMINE THERAPY FOR THE REDUCTION OF ADVERSE EFFECTS ASSOCIATED WITH TOPICAL 5-AMINOLEVULINIC ACID PHOTODYNAMIC THERAPY Monique Wilson★, Isabela Jones, Douglas Wu, Mitchel Goldman Cosmetic Laser Dermatology, San Diego, CA
4:14 PM - 4:16 PM		Q&A
4:17 PM - 4:22 PM	141	A CASE OF REFRACTORY ELASTOSIS PERFORANS SERPIGINOSA SUCCESSFULLY TREATED WITH ALA-PDT Sean Condon★, Jennifer Lucas Cleveland Clinic Foundation, Cleveland, OH
4:23 PM - 4:25 PM		Q&A
4:26 PM - 4:31 PM	142	CHARACTERIZATION OF A NOVEL DEVICE FOR INTRAOPERATIVE PHOTODYNAMIC THERAPY IN NEUROSURGERY Clément Dupont★→, Nicolas Reyns, Pascal Deleporte, Serge R. Mordon, Maximilien Vermandel University Lille, Nord-Pas-de-Calais, France
4:32 PM - 4:34 PM		Q&A
4:35 PM - 4:40 PM	143	SYNTHESIS OF COUMARIN/BENZYLIDENE CYCLOPENTANONE PHOTOSENSITIZERS FOR TWO-PHOTON EXCITATION PHOTODYNAMIC THERAPY Yanyan Fang★→, Yuxia Zhao, Feipeng Wu Wellman Center for Photomedicine Massachusetts, General Hospital, Boston, MA; Technical Institute of Physics and Chemistry, Chinese Academy of Sciences, Beijing, Beijing China
4:41 PM - 4:43 PM		Q&A
4:44 PM - 4:49 PM	144	Best of PAPDT-PDT Session Award Recipient: NOVEL BITE BLOCKS FOR PRECISION AND ERGONOMIC INTRAORAL PDT LIGHT DOSIMETRY AND DELIVERY WITH A PORTABLE, LOW-COST LED SYSTEM FOR GLOBAL HEALTH APPLICATIONS Hui Liu★→, Amjad Khan, Srivalleesha Mallidi, Grant Rudd, Liam Daly, Imran Rizvi, Filip Cuckov, Jonathan Celli, Tayyaba Hasan University of Massachusetts, Boston, MA; Wellman Center for Photomedicine, Massachusetts General Hospital, Boston, MA
4:50 PM - 4:52 PM		Q&A
4:53 PM - 4:58 PM	145	AN INTRODUCTION TO INDYGO: SET-UP AND PRELIMINARY RESULTS OF THE FIRST PILOT CLINICAL TRIAL ON INTRAOPERATIVE 5-ALA PDT FOR THE TREATMENT OF NEWLY DIAGNOSED GLIOBLASTOMA Maximilien Vermandel★, Clément Dupont, Fabienne Lecomte, Mathilde Quidet, Emilie Le Rhun, Serge R. Mordon, Nicolas Reyns University Lille, Lille, France
4:59 PM - 5:01 PM		Q&A
5:02 PM - 5:07 PM	146	MAGNETIC RESONANCE IMAGING TO ASSESS PHOTODYNAMIC THERAPY EFFECTS ON A PRECLINICAL MODEL: PRELIMINARY RESULTS ON DIFFUSION/PERFUSION MRI TO EVALUATE PDT RESPONSE Maximilien Vermandel★, Henri-Arthur Leroy, Clément Dupont, Serge R. Mordon, Nicolas Reyns University Lille, Lille, France
5:08 PM - 5:10 PM		Q&A
5:11 PM - 5:16 PM	LB27	ALA 20% SOLUTION BLUE LIGHT vs ALA 10% GEL RED LIGHT PDT FOR AKS: SINGLE SUBJECT SPLIT FACE, CROSS-OVER STUDY WITH PORPHYRIN IMAGES Ashley Dong, Phi Dinh, Andrea Willey★ University of California Los Angeles, Los Angeles, CA; Andrea Willey, MD Surgical & Aesthetic Dermatology, Sacramento, CA

TIME	ABSTR	ACTIVITY
5:17 PM - 5:19 PM		Q&A
5:20 PM - 5:25 PM	147	ULTRA FAST THERMAL PDT FOR FACIAL AKs: PROOF OF CONCEPT STUDY <i>Andrea Willey★, Phi Dinh, Ashley Dong</i> Andrea Willey, MD Surgical & Aesthetic Dermatology, Sacramento, CA; University of California Los Angeles, Los Angeles, CA
5:26 PM - 5:30 PM		Q&A and Conclusion

Basic Science and Translational Research - Abstract Session

Saturday, April 8 | 1:30 PM - 5:30 PM | Room: 30 A/B

AMA PRA CATEGORY 1 CME CREDITS: 3.25 MAX

Educational Needs These sessions promote understanding of:

- » The use of light in medicine for imaging and diagnostics, in which photons interrogate the structure and function of cells and tissue.
- » The design of light-based diagnostic devices and techniques.
- » Basic processes of light interaction with tissue and cells.
- » The use of imaging for guiding intervention.

Participants Clinicians, scientists, researchers, developers.

Background Requirements Basic understanding of optical imaging and light tissue interactions.

Instructional Content/Expected Learning Objectives Participants will learn about:

- » New imaging strategies for guiding patient care.
- » How optical imaging can be used to visualize tissue function,
- » Understand molecular events in light-mediated treatments
- » How to monitor interventions.

Hot topics

- » Structural and Functional Imaging.
- » Point of Care Multimodal Imaging.
- » Image-Guided Interventions.

Chair(s) Walfre Franco, PhD; Gracie Vargas, PhD

Speaker(s) Taayba Hasan, PhD; Thomas Milner, PhD

TIME	ABSTR	ACTIVITY
1:30 PM - 1:35 PM		Introduction
1:36 PM - 1:51 PM		<i>Caroline and William Mark Memorial Award Recipient:</i> A Narrative for Laser Medicine: The Central Role of Lasers in Twenty-First Century - Thomas Milner
IMAGE GUIDED APPLICATIONS II		
1:52 PM - 2:02 PM	24	DERMATOSCOPE INCORPORATING LASER SPECKLE IMAGING TO ENABLE SIMULTANEOUS BLOOD FLOW QUANTIFICATION AND VISUAL INSPECTION OF SKIN <i>Sean White★, Bernard Choi</i> Beckman Laser Institute, Irvine, CA
2:03 PM - 2:07 PM		Q&A
2:08 PM - 2:18 PM	25	PHOTOOXIDATION OF TRYPTOPHAN DURING PHOTOCROSSLINKING TREATMENT FOR KERATOCONUS <i>Marua Williams★→, William Lewis, Walfre Franco</i> Wellman Center for Photomedicine, Boston, MA; Harvard Medical School, Boston, MA
2:19 PM - 2:23 PM		Q&A

TIME	ABSTR	ACTIVITY
2:24 PM - 2:34 PM	26	POLARIZATION-SENSITIVE OPTICAL COHERENCE REFLECTOMETRY ALLOWS REAL-TIME MONITORING OF LESION DEPTH DURING RADIOFREQUENCY CARDIAC CATHETER ABLATION: EXPLORATORY STUDY BASED ON IN SILICO MODEL <i>Ana González-Suárez★→, David Herranz, Enrique Berjano, Jose L. Rubio-Guivernau, Eduardo Margallo-Balbas</i> Universitat Politècnica de València, València, Spain; MedLumics S.L., Tres Cantos, Madrid, Spain
2:35 PM - 2:39 PM		Q&A
2:40 PM - 2:44 PM		Conclusion
2:45 PM - 3:30 PM		BREAK
3:31 PM - 3:41 PM	103	<u>Outstanding Early Career Scientific Abstract Award Recipient:</u> PHOTOBIO-MODULATION EFFECTS ON GENE AND PROTEIN EXPRESSION OF PROINFLAMMATORY CHEMOKINES AND CYTOKINES BY J774 MACROPHAGES POLARIZED TO M1 PHENOTYPE <i>Kaline Brito Sousa★, Loriana de Santana Araujo, Naya Madeira Pedroso, Debora de Souza Santos, Maria Fernanda Rodrigues, Raquel Mesquita Ferrari, Sandra Bussadori, Kristianne Fernandes</i> Universidade Nove de Julho, São Paulo, Brazil
3:42 PM - 3:45 PM		Q&A
3:46 PM - 3:56 PM	LB6	THE EFFECT OF PHOTOBIO-MODULATION IN THE MACROPHAGES AFTER SKELETAL MUSCLE ACUTE INJURY <i>Evaldo Silva Junior★, Nadhia Souza, Maria Fernanda Setubal Destro Rodrigues, Raguél Mesquita Ferrari, Sandra Bussadori, Kristianne Fernandes</i> Nove de Julho University, São Paulo, Brazil
3:57 PM - 4:00 PM		Q&A
4:01 PM - 4:11 PM	LB7	AN ADDITIONAL PROOF FOR EFFICACY OF MULTICHANNEL DIODE LASER ACUPUNCTURE IN IMPROVING LEVELS OF THE INFLAMMATORY AIRWAY BIOMARKER IN ASTHMATIC CHILDREN <i>Nagwa Hassan, Mona Soliman★, Magda Y Elseify, Asmaa Alsharkawy, Mai Seoudy Elsheikh, Ola Dabous</i> National Research Center, Cairo, Egypt; National Institute of Laser Enhanced Sciences, Cairo, Egypt; Ain Shams University, Cairo, Egypt
4:12 PM - 4:15 PM		Q&A
4:16 PM - 4:26 PM	27	EFFICACY AND SAFETY PROFILES OF VARIOUS LASER THERAPIES AS COMPARED TO TRANS-URETHRAL RESECTION OF THE PROSTATE <i>Ram Pathak★→, Raymond Pak, Michael Heckman, Nancy Diehl, Emily Vargas, Gregory Broderick, David Thiel</i> Mayo Clinic, Jacksonville, FL
4:27 PM - 4:30 PM		Q&A
4:31 PM - 4:41 PM	LB8	EVALUATING BREAST CANCER RISK FACTORS USING RAMAN SPECTROSCOPY IN LIVE CELLS <i>Fuyao Chen★, Giju Thomas, Wilson Adams, Anita Mahadevan-Jansen</i> Vanderbilt University, Nashville, TN
4:42 PM - 4:45 PM		Q&A
4:46 PM - 4:56 PM	LB9	NON-INVASIVE SKIN CANCER DIAGNOSIS USING DIFFUSE REFLECTANCE, FLUORESCENCE, AND RAMAN SPECTROSCOPY <i>Austin Moy★, Xu Feng, Hieu Nguyen, Yao Zhang, Katherine Sebastian, Mia Markey, Jason Reichenberg, James Tunnell</i> The University of Texas at Austin, Austin, TX; Seton Family Healthcare, Austin, TX
4:57 PM - 5:00 PM		Q&A
5:01 PM - 5:21 PM		Translating Laboratory Science into the Clinic: Photodynamic Therapy of AMD, Skin and Pancreatic Cancers - Tayyaba Hasan
5:22 PM - 5:26 PM		Q&A
5:27 PM - 5:30 PM		Conclusion

Cutaneous Applications - Abstract Session

Saturday, April 8 | 1:30 PM - 5:30 PM | Room: Hall F

AMA PRA CATEGORY 1 CME CREDITS: 3.25 MAX

Educational Needs This session will explore the use of lasers and energy-based devices to treat a wide spectrum of cutaneous conditions. Controlled studies demonstrating objective evidence in support of new devices and new uses of established devices will be presented. Attendees will be encouraged to participate in discussion of the presented data. Updating current knowledge on the use of energy-based devices as well as maximizing results and minimizing complications will be a prime objective of this session.

Participants This session is for all health care practitioners, engineers, scientists, or any interested individuals working with lasers and energy-based devices. All health care personnel will benefit by learning how to maximize results of treatment of cutaneous conditions while minimizing complications.

Background Requirements Participants with a basic understanding of skin biology and physics will derive maximal benefit from the presentations, however, all meeting attendees are welcome to attend and contribute.

Instructional Content/Expected Learning Objectives Attendees will learn about what's new in the field of lasers and energy-based devices. Presentations of new devices and new uses for established devices will provide attendees with data to incorporate into practice or research.

Hot topics

- » Nanoparticles: Magic Bullets.
- » The Picosecond Revolution Continues: A Deeper Understanding of Skin Rejuvenation Techniques.
- » Skin Cancer Treatment and Prevention.

Chair(s) Mathew M. Avram, MD, JD; Kelly J. Stankiewicz, MD, FAAD

TIME	ABSTR	ACTIVITY
1:30 PM - 1:32 PM		Introduction
LEGAL		
1:33 PM - 1:39 PM	42	LASER OPERATOR LAWS AND REGULATIONS IN THE UNITED STATES <i>Catherine DiGiorgio★→, Mathew M. Avram</i> Wellman Center for Photomedicine, Massachusetts General Hospital, Boston, MA; Dermatology Laser and Cosmetic Center, Massachusetts General Hospital, Boston, MA
1:40 PM - 1:46 PM	84	<u>Dr. Richard E. Fitzpatrick Clinical Research and Innovation Award Recipient and Outstanding Early Career Clinical Abstract Award Recipient:</u> SURGICAL OUTCOMES OF LENTIGO MALIGNA MELANOMA PREVIOUSLY TREATED COSMETICALLY AS BENIGN PIGMENTED LESIONS <i>Brian Hibler★, Karen Connolly, Erica Lee, Kishwer Nehal, Anthony Rossi</i> Memorial Sloan Kettering Cancer Center, New York, NY
1:47 PM - 1:53 PM	92	<u>Outstanding Early Career Clinical Abstract Award Recipient:</u> FRACTIONAL LASER-ASSISTED TOPICAL DELIVERY OF THE ANTICANCER AGENT CISPLATIN <i>Emily Wenande★, Uffe Høgh Olesen, Malene Boesen, Stefan Sturup, Bente Gammelgaard, R. Rox Anderson, Merete Haedersdal</i> Bispebjerg University Hospital, Copenhagen, Denmark; Wellman Center for Photomedicine, Massachusetts General Hospital, Harvard Medical School, Boston, MA
1:54 PM - 1:58 PM		Q&A

TIME	ABSTR	ACTIVITY
FAT REMOVAL		
1:59 PM - 2:05 PM	43	RANDOMIZED, CONTROLLED STUDY OF NON-THERMAL, PULSED ULTRASOUND TREATMENT FOR FAT THICKNESS REDUCTION IN FLANKS WITH UNTREATED CONTROL <i>W. Patrick Coleman IV★, William Coleman III</i> Tulane University, New Orleans, LA; Coleman Center for Cosmetic Dermatologic Surgery, Metairie, LA
2:06 PM - 2:12 PM	44	ABDOMINAL CIRCUMFERENCE REDUCTION USING A NON-INVASIVE MONOPOLAR RADIOFREQUENCY DEVICE – A PIVOTAL STUDY WITH 70 SUBJECTS <i>Ashish Bhatia★</i> Northwestern University, Feinberg School of Medicine, Naperville, IL
2:13 PM - 2:19 PM	45	BILATERAL SUBMENTAL CRYOLIPOLYSIS FOR NON-INVASIVE FAT REDUCTION <i>Eric Bernstein★, Jason Bloom</i> Main Line Center for Laser Surgery, Ardmore, PA
2:20 PM - 2:26 PM	46	1060nm DIODE LASER TO REMOVE FAT FROM INNER THIGHS AND LOWER ARMS <i>Klaus Hoffmann★, Klaus Karl P. Hoffmann</i> Ruhr University, Bochum, Germany
2:27 PM - 2:33 PM	47	ONE YEAR FOLLOW-UP FOLLOWING TREATMENT WITH A 1060nm HYPERTHERMIC LASER FOR NON-INVASIVE FAT REDUCTION <i>Lawrence Bass★, Bruce Katz, Sean Doherty</i> Bass Plastic Surgery, New York, NY; Juva Skin & Laser Center, New York, NY; Cynosure, Westford, MA
2:34 PM - 2:44 PM		Q&A
2:45 PM - 3:29 PM		BREAK
3:30 PM - 3:36 PM	48	A RANDOMIZED, SPLIT-BODY STUDY EVALUATING THE EFFICACY OF A NOVEL CRYOLIPOLYSIS APPLICATOR FOR THE TREATMENT OF PSEUDOGYNECOMASTIA <i>Isabela Jones★, Monique Wilson, Douglas Wu, Isabella Guiha, Mitchel Goldman</i> Cosmetic Laser Dermatology, San Diego, CA
3:37 PM - 3:43 PM	49	LARGE FIELD RF FOR REDUCTION OF ABDOMINAL FAT - AN ULTRASOUND STUDY <i>Robert Weiss★, David McDaniel, Sarah Hsu</i> Laser Skin & Vein Institute, Hunt Valley, MD; Institute of Anti-Aging Research, Virginia Beach, VA
3:44 PM - 3:50 PM	50	CLINICAL STUDY TO EVALUATE THE PERFORMANCE OF A FOCUSED ULTRASOUND DEVICE FOR THIGH FAT AND CIRCUMFERENCE REDUCTION COMPARED TO CONTROL <i>Eric Wilkerson★→, Amy Tank, Bradley Bloom, Marc Handler, David Goldberg</i> Skin Laser & Surgery Specialists of New York and New Jersey, New York, NY
3:51 PM - 3:57 PM	51	CRYOLIPOLYSIS FOR REDUCTION OF ARM FAT: SAFETY AND EFFICACY OF A PROTOTYPE COOLCUP APPLICATOR WITH FLAT CONTOUR <i>Jason Rivers★, Shannon Humphrey, Jean Carruthers</i> Pacific Dermaesthetics, Vancouver, BC Canada; Carruthers & Humphrey Cosmetic Dermatology Clinic, Vancouver, BC Canada
3:58 PM - 4:04 PM	LB14	CRYOLIPOLYSIS ABDOMEN TREATMENT TO TRANSFORMATION WITH RAPID REWARMING REPERFUSION RECOVERY <i>Brian Zelikson★, Irmina Wallander</i> Zel Skin & Laser Specialists, Edina, MN
4:05 PM - 4:11 PM	LB15	NON-THERMAL PULSED ULTRASOUND TREATMENT FOR REDUCTION IN ABDOMINAL FAT THICKNESS LAYER <i>Mara Weinstein Velez★, Kathleen Petrell, Jeffrey Dover</i> SkinCare Physicians, Chestnut Hill, MA
4:12 PM - 4:18 PM	LB16	HOW TO ENHANCE FRACTIONAL LASER ASSISTED DRUG DELIVERY? INFLUENCE OF VARIOUS PENETRATION ENHANCEMENT TECHNIQUES ON THE DELIVERY OF INDOCYANINE GREEN IN THE SKIN <i>Arne Meesters★, Marilyn Nieboer, Albert Wolkerstorfer</i> Netherlands Institute for Pigment Disorders, University of Amsterdam, Amsterdam, Netherlands
4:19 PM - 4:27 PM		Q&A

TIME	ABSTR	ACTIVITY
DRUG DELIVERY		
4:28 PM - 4:34 PM	53	PARAMETERS IN FRACTIONAL LASER ASSISTED DELIVERY OF TOPICAL ANESTHETICS: ROLE OF LASER TYPE AND LASER SETTINGS <i>Arne Meesters★→, Marilyn Nieboer, Albert Wolkerstorfer</i> Netherlands Institute for Pigment Disorders, Academic Medical Center, University of Amsterdam, Amsterdam, Noord-Holland, Netherlands
FRACTIONAL RESURFACING		
4:35 PM - 4:41 PM	54	COMPRESSED AIR CYCLES ENHANCE THE FILLING OF FRACTIONAL ABLATIVE LASER CHANNELS <i>Andres Erlendsson★→, Daniel Thaysen-Petersen, Mette Mogensen, Merete Haedersdal</i> Bispebjerg University Hospital, Copenhagen, Denmark
4:42 PM - 4:48 PM	55	ABLATIVE LASER PENETRATION DEPTH AS A FUNCTION OF SCAR PROPERTIES <i>Molly Baumann★, Jacqui Walters, Petra Warner, John Bailey, Heather Powell</i> Ohio State University, Columbus, OH; Shriners Hospitals for Children, Cincinnati, OH
4:49 PM - 4:55 PM	56	FRACTIONAL ABLATION OF EX VIVO HUMAN SKIN USING A NOVEL CO LASER <i>Linh Ha★, Reginald Birngruber, Dieter Manstein</i> Massachusetts General Hospital, Harvard Medical School, Boston, MA; Institute of Biomedical Optics, University of Luebeck, Luebeck, Germany
ROBOTICS		
4:56 PM - 5:02 PM	57	COMPARATIVE ANALYSIS OF THE EVENNESS OF LASER IRRADIATION BY A ROBOT vs HUMAN HAND: A PILOT STUDY OF THE IMPLICATION ON THE EFFECTIVENESS AND SAFETY OF ENERGY-BASED MEDICAL DEVICES <i>Yongsoo Lee★, Jaesung Oh, Hyoin Bae, Jeongsoo Lim, Junho Oh</i> WYNE Dermatology and Plastic Surgery Clinic Cheongju, Chungbuk, South Korea; Korea Advanced Institute of Science and Technology, Daejeon, South Korea
IMAGING		
5:03 PM - 5:09 PM	58	PILOT STUDY ON <i>IN VIVO</i> MULTIPHOTON-MICROSCOPY OF LASER-INDUCED OPTICAL BREAKDOWN IN HUMAN SKIN <i>Mihaela Balu, Griffin Lentsch, Dorota Korta, Karsten König, Kristen Kelly, Bruce Tromberg, Christopher Zachary★</i> University of California, Irvine, Beckman Laser Institute, Irvine, CA; Department of Biophotonics and Laser Technology Saarland, Saarland, Germany
5:10 PM - 5:16 PM	59	COMPARISON OF TAILORED PRETREATMENT REGIMENS WITH MICRODERMABRASION vs ABLATIVE FRACTIONAL LASER PRIOR TO DAYLIGHT PDT – A RANDOMIZED TRIAL <i>Merete Haedersdal★, Emily Wenande, Christiane Bay, Katrine Elisabeth Karmisholt, Katrine Togsverd-Bo</i> Bispebjerg Hospital, Copenhagen University, Copenhagen, Denmark
5:17 PM - 5:24 PM		Q&A
5:25 PM - 5:30 PM		Conclusion

ESLD-Challenging Clinical Cases/Series (with International Panel Discussion) - Abstract Session

Saturday, April 8 | 1:30 PM - 2:45 PM | Room: 31 B/C

AMA PRA CATEGORY 1 CME CREDITS: 1.25 MAX

Educational Needs This session will explore parameters for laser treatment for different skin lesions for multiple medical indications still needs optimization. It is a challenge for the practicing physician to choose not only the right device for the intervention but also the choice of parameters remains a challenge as research is often still unsatisfactory. By actively exchanging and discussing device choices and treatments parameters for different medical indications the participant will enhance their knowledge about laser and energy-based devices, will be more at ease with laser and energy based device settings and ultimately will have satisfying outcomes for the physician and most of all for their patients.

Participants Any practitioner using laser and energy-based devices in medical applications.

Background Requirements A solid background knowledge of laser and energy-based device application will be helpful to join the in depth discussion. However even beginning laser and energy-based device practitioners will have the opportunity to discuss their difficulties encountered in their daily practice.

Instructional Content/Expected Learning Objectives The attendees are expected to come out after the session with a better understanding about how to optimize laser parameters for specific indications to improve the outcome and avoid unwanted side effects. Attendants will also learn about new indications in which laser and energy-based devices might be a valid alternative treatment tool. Attendees will furthermore have the opportunity to learn about and share their own practical treatment pearls within the discussion of each presentation.

Hot topics

- » Non-ablative peri-ocular rejuvenation: significant improvement of the peri-ocular area with no or minimal down time can now be achieved.
- » MRI Assisted laser ablation of prostate cancer: Finally instead of shooting in the dark, with the aid of the MRI, the malignant tissue can be better identified and treated with laser ablation which can significantly minimize the recurrence, a real breakthrough.
- » Treatment of chronic radiation dermatitis: although significant improvements have been made in the last decades in radiotherapy, radiation dermatitis is still a problem facing a large percentage of the treated patients. Effective tools are available to treat chronic radiation dermatitis once installed. Unfortunately these tools are not yet used in routine clinical practice.

Chair(s) Ashraf M. Badawi, MD, PhD; Hans Joachim Laubach, MD;

TIME	ABSTR	ACTIVITY
1:30 PM - 1:35 PM		Introduction
1:36 PM - 1:42 PM	108	FOCAL LASER ABLATION FOR LOCALIZED PROSTATE CANCER <i>Sherif Nour★, Kareem Elfatairy, Christopher Filson</i> Emory University Hospitals and School of Medicine, Atlanta, GA
1:43 PM - 1:47 PM		Case Discussion with Audience
1:48 PM - 1:54 PM	109	NON-ABLATIVE PERIOCCULAR REJUVENATION USING LONG PULSE Er:YAG 2940nm LASER <i>Ashraf Badawi★</i> National Institute of Laser Enhanced Sciences, Cairo, Giza, Egypt

TIME	ABSTR	ACTIVITY
1:55 PM - 1:58 PM		Case Discussion with Audience
1:59 PM - 2:05 PM	110	FRACTIONAL CARBON DIOXIDE RESURFACING COMBINED WITH INTRALESIONAL TRIAMCINOLONE ACETONIDE INJECTIONS FOR KELOIDS AND HYPERTROPHIC SCARS <i>Paolo Bonan★</i> Cosmetic Plastic Surgery and Laser Dermatology Surgery Unit, Florence, Italy
2:06 PM - 2:10 PM		Case Discussion with Audience
2:11 PM - 2:17 PM	111	FRACTIONAL PHOTOTHERMOLYSIS FOR DISCOID LUPUS ERYTHEMATOSUS <i>Hans-Joachim Laubach★, David Alvarez Martinez, Emmanuel Laffitte</i> University Hospital of Geneva, Geneva, Switzerland
2:18 PM - 2:22 PM		Case Discussion with Audience
2:23 PM - 2:29 PM	112	CHRONIC RADIATION DERMATITIS AND FIBROSIS - APPROACH TO TREATMENT <i>Thanh-Nga Tran★, Minh Hoang, Quynh-Anh Phan, Thuy Phung, R. Rox Anderson</i> Massachusetts General Hospital, Boston, MA; University of Medicine and Pharmacy of Ho Chi Minh City, Ho Chi Minh City, Vietnam; Texas Children's Hospital, Houston, TX
2:30 PM - 2:34 PM		Case Discussion with Audience
2:35 PM - 2:45 PM		Q&A and Conclusion

Women's Health - Abstract Session

Saturday, April 8 | 1:30 PM - 5:30 PM | Room: 28 A/B

AMA PRA CATEGORY 1 CME CREDITS: 3.25 MAX

Educational Needs: New applications of laser in genito-urinary syndrome of menopause (GSM), stress urinary incontinence (SUI), and lower female genital tract.

Participants: Gynecologists, Urologists, and other health care professionals who are interested in menopausal medicine (such as endocrinologists, G.P., internal medicine, physiotherapists, nurses and professionals interested in women's health issues. Scientists/engineers with special interest in the design of laser delivery systems.

Background Requirements: Physicians, nurses, engineers, writers/journalists (the media) with special interest in Women's Health issues.

Instructional Content/Expected Learning Objectives: It is expected that participants will receive scientific information on cutting edge technologies to treat age related female lower genital tract issues. These new technologies replace controversial hormonal treatments and other related solutions.

Hot topics

- » Genito-Urinary Syndrome of Menopause. (GSM)
- » Stress Urinary Incontinence. (SUI)
- » Vaginal Wall Rejuvenation Without the Use of Hormones.

Chair(s) Mickey M. Karram, MD; Yona Tadir, MD;

Speaker Adrian Gaspar, MD

TIME	ABSTR	ACTIVITY
1:30 PM - 1:34 PM		Introduction
STRESS URINARY INCONTINENCE		
1:35 PM - 1:41 PM	173	THE EFFECT OF RF EXCITED FRACTIONAL CO₂ LASER FOR THE TREATMENT OF STRESS URINARY INCONTINENCE <i>Falguni Patel</i> ★ Aberdeen, NJ
1:42 PM - 1:48 PM	174	PIXELATED VAGINAL CO₂ LASER TREATMENT FOR STRESS URINARY INCONTINENCE <i>Menachem Alcalay</i> ★, <i>Alexandros Bader</i> , <i>Ksenija Selih Martinec</i> , <i>Eyal Schiff</i> Sheba Medical Center, Ramat Gan, Israel; Private Clinic, London, France; Kalliste Medical Center, Kalliste, Slovenia
1:49 PM - 1:55 PM	175	COMPARISON ON Er:YAG LASER TREATMENT WITH TVT AND TOT IN ASIAN WOMEN WITH STRESS URINARY INCONTINENCE <i>Nobuo Okui</i> ★, <i>Kikue Yoda</i> , <i>Zdenko Vizintin</i> Yokosuka Urogynecology and Urology Clinic, Yokosuka, Kangawa, Japan; Haltek Ltd., Tokyo, Japan; Fotona, Ljubljana, Slovenia
1:56 PM - 2:02 PM	176	EFFECT OF HYBRID 2940nm AND 1470nm INTRAVAGINAL LASER TREATMENT FOR STRESS URINARY INCONTINENCE <i>Shehla Admani</i> ★, <i>Arisa Ortiz</i> University of California San Diego, San Diego, CA
2:03 PM - 2:08 PM		Q&A
2:09 PM - 2:15 PM	177	Best of Women's Health Session Award Recipient: INTRAURETHRAL Er:YAG LASER FOR THE MANAGEMENT OF URINARY SYMPTOMS OF GENITOURINARY SYNDROME OF MENOPAUSE (GSM) <i>Adrian Gaspar</i> ★, <i>Sandra Maestri</i> , <i>Hugo Brandi</i> , <i>Daniel Luque</i> , <i>Zdenko Vizintin</i> Prima Piel Clinic, Mendoza, Argentina; University of Mendoza, Mendoza, Argentina; Fotona, Ljubljana, Slovenia
2:16 PM - 2:36 PM		Laser Vaginal Rejuvenation: Past, Present and Future - Adrian Gaspar
2:37 PM - 2:44 PM		Q&A
2:45 PM - 3:30 PM		BREAK

TIME	ABSTR	ACTIVITY
GENITO-URINARY SYNDROME OF MENOPAUSE		
3:31 PM - 3:37 PM	178	3 YEARS FOLLOW-UP OF PELVIC ORGAN PROLAPSE TREATED WITH Er:YAG LASER <i>Urska Bizjak-Ogrinc</i> ★, <i>Sabina Sencar</i> , <i>Zdenko Vizintin</i> Juna Clinic, Ljubljana, Slovenia; Fotona, Ljubljana, Slovenia
3:38 PM - 3:44 PM	179	LASER TREATMENT OF LICHEN SCLEROSUS ET ATROPHICUS: PRELIMINARY RESULTS OF RANDOMIZED CONTROL TRIAL <i>Urska Bizjak-Ogrinc</i> ★, <i>Sabina Sencar</i> , <i>Adolf Lukanovic</i> , <i>Zdenko Vizintin</i> Juna Clinic, Ljubljana, Slovenia; University Medical Centre Ljubljana, Ljubljana, Slovenia; Fotona, Ljubljana, Slovenia
3:45 PM - 3:51 PM	180	EFFICACY OF A FRACTIONAL CO₂ LASER IN ADDRESSING WOMEN'S HEALTH ISSUES <i>Bruce Katz</i> ★ Mount Sinai Hospital, New York, NY
3:52 PM - 3:58 PM	181	FRACTIONAL CO₂ LASER TREATMENT OF THE VAGINAL CANAL AND EXTERNAL LABIA FOR SYMPTOMS OF VULVO-VAGINAL ATROPHY IN POSTMENOPAUSAL WOMEN <i>Julene Samuels</i> ★, <i>Lori Warren</i> , <i>Martin Garcia</i> The Springs Medical Center, Louisville, KY; Women First of Louisville, Louisville, KY; North Florida OB/GYN, Jacksonville, FL
3:59 PM - 4:05 PM	182	CO₂ LASER AS A TREATMENT OPTION FOR GENITOURINARY SYNDROME OF MENOPAUSE (GSM) IN ONCOLOGICAL PATIENTS: PRELIMINARY RESULTS <i>Giuseppe Scibilia</i> ★, <i>Paolo Scollo</i> , <i>Francesca Nocera</i> Cannizzaro Hospital, Catania, Italy
4:06 PM - 4:12 PM	183	A NOVEL PROCEDURE FOR VAGINAL REJUVENATION USING A CO₂ LASER WITH A NEW NON-ABLATIVE MODALITY <i>Arturo Menchaca</i> ★ Paris Community Hospital, Paris, IL
4:13 PM - 4:20 PM		Q&A
VAGINAL TIGHTENING		
4:21 PM - 4:27 PM	184	EXPERIENCE OF VAGINAL TIGHTENING BY 2940nm Er:YAG LASER IN JAPAN <i>Natsu Watanabe</i> ★, <i>Kikue Yoda</i> , <i>Zdenko Vizintin</i> Medical Corporation Asunarokai Watanabe Dermatology Plastic Surgery Clinic, Osaka, Japan; Haltek Ltd., Tokyo, Japan; Fotona, Ljubljana, Slovenia
4:28 PM - 4:34 PM	185	Er:YAG LASER VAGINAL TIGHTENING USING ROBOTIC PROBE <i>Jorge Gaviria</i> ★, <i>Aureni Betancourt</i> , <i>Zdenko Vizintin</i> Centro Medico Docente Estético Laser "Korpo Laser", Caracas, Venezuela; Fotona, Ljubljana, Slovenia
4:35 PM - 4:41 PM	186	364 CASES OF LASER TREATMENT OF VAGINAL RELAXATION SYNDROME WITH NON-ABLATIVE Er:YAG LASER <i>Midori Mitsuyuki</i> ★, <i>Kikue Yoda</i> , <i>Zdenko Vizintin</i> Midori Beauty Clinic Hiroo, Tokyo, Japan; Haltek Ltd., Tokyo, Japan; Fotona, Ljubljana, Slovenia
4:42 PM - 4:47 PM		Q&A
EXTERNAL GENITALS		
4:48 PM - 4:54 PM	187	EXPERIENCE IN SURGERY LOW AND MEDIUM COMPLEXITY (VULVAR, VAGINAL AND ANAL PATHOLOGY) WITH LASER SYSTEMS <i>Ajakaida Renaud</i> ★, <i>Oscar Suarez</i> , <i>Herman Nass</i> , <i>Wiston Villavicencio</i> Academia Iberoamericana de Laser Medico, Barquisimeto, Venezuela; Hospital Central Antonio Maria Pineda, Barquisimeto, Venezuela; International Barquisimeto Hospital, Barquisimeto, Venezuela
HPV IN GENITAL TRACT		
4:55 PM - 5:01 PM	188	EFFECTIVENESS OF LASER SYSTEMS IN INFERIOR GENITAL TRACT CAUSED BY HPV IN FERTILE AGE WOMEN <i>Oscar Suarez</i> ★, <i>Ajakaida Renaud</i> Academia Iberoamericana de Laser Medico, Barquisimeto, Venezuela
LOCAL ANESTHETICS		
5:02 PM - 5:08 PM	189	PROCIPT-L 4% LIDOCAINE ANESTHETIC GEL FOR INTRA-VAGINAL FRACTIONAL LASER TREATMENTS: A COMPARATIVE PILOT STUDY vs XYLOCAINE 2% GEL <i>Nathan L. Guerette</i> ★ The Female Pelvic Medical Institution of Virginia, Richmond, VA

TIME	ABSTR	ACTIVITY
5:09 PM - 5:15 PM	LB31	IMPROVEMENTS IN VAGINAL/SEXUAL HEALTH FOLLOWING CO₂ LASER TREATMENT <i>Maria Sophocles, Faiza Sadiq★, Renata Estes</i> Women's Healthcare of Princeton, Princeton, NJ
5:16 PM - 5:30 PM		Q&A, Discussion and Conclusion

Photobiomodulation / NAALT- Abstract Session

Saturday, April 8 | 1:30 PM - 5:30 PM | Room: 25 B/C

AMA PRA CATEGORY 1 CME CREDITS: 3.25 MAX

Educational Needs The purpose of this session is to present and discuss the latest findings on basic mechanisms of Photobiomodulation (PBM), and pre-clinical and clinical investigations on the critical parameters, mechanisms, and effectiveness of Photobiomodulation Therapy (PBMT) for a broad range of clinical applications. Light and its photonic effects and photo-medicine in general have gained recognition as an area of innovative and novel research with significant clinical implications.

Participants Scientists, engineers, medical practitioners, individuals in industry and other health care professionals involved in biomedical applications of light are invited to participate in these sessions.

Background Requirements Participants should have an understanding of light interaction with biological tissues and basic and clinical research.

Instructional Content/Expected Learning Objectives This session will provide the latest data on basic science and pre-clinical experiments in PBM and clinical use of PBMT for a wide spectrum of applications. The participants will increase their knowledge on the state-of-the-art of PBM basic science and PBMT clinical potential.

Hot topics

- » Photobiomodulation therapy for the management of oral mucositis in cancer patients.
- » Photobiomodulation may inhibit tumor growth by stimulating the immune response.
- » Presence of opsins and cryptochromes in human skin may be photobiomodulation mediators.
- » A novel red-emitting quantum dot LED (QLED) source for photobiomodulation applications.

Chair(s) Juanita J. Anders, PhD; Terrance Baker, MD; M. Cristina Chavantes MD, PhD

TIME	ABSTR	ACTIVITY
1:30 PM - 1:35 PM		Introduction
1:36 PM - 1:44 PM		Current State of Pain Treatment with PBMT: Two Therapeutic Approaches - Juanita J. Anders
1:45 PM - 1:47 PM		Q&A
1:48 PM - 1:56 PM	161	THE IMPORTANCE OF THE SELECTION OF OPTICAL PARAMETERS, CELL CULTURE CONDITIONS AND TREATMENT PROTOCOLS IN PHOTOBIMODULATION IN VITRO: A MULTI-FACTORIAL ANALYSIS OF THE RESPONSE OF PRIMARY HUMAN DERMAL FIBROBLASTS TO VISIBLE AND NIR LIGHT <i>Charles Mignon★→, Natallia Uzunbajakava, Bianca Raafs, Natalia V Botchkareva, Desmond J. Tobin</i> Philips Research Eindhoven, Netherlands; Center for Skin Sciences, University of Bradford, Bradford, United-Kingdom
1:57 PM - 1:59 PM		Q&A
2:00 PM - 2:08 PM	162	PRELIMINARY STUDIES OF A NOVEL RED-EMITTING QUANTUM DOT LED SOURCE FOR PHOTOBIMODULATION APPLICATIONS <i>Raymond Lanzafame★, Istvan Stadler, Yajie Dong, Hao Chen, Shin-Tson Wu, Juan He</i> Laser Surgical Research Laboratory, Rochester General Hospital, Rochester, NY; Nanoscience Technology Center College of Optics and Photonics, University of Central Florida, Orlando, Florida
2:09 PM - 2:11 PM		Q&A

TIME	ABSTR	ACTIVITY
2:12 PM - 2:20 PM	163	EFFECTS OF LOW-LEVEL LASER THERAPY ON ADHESION AND PROFILARATION OF A549 EPITHELIAL CELLS IN DECELLULARIZED LUNG <i>Renata da Palma★→, Flávia Mafra de Lima, Ramon Farre, Neus Câmara, Luiz Oliveira</i> UNINOVE, São Paulo, Brazil; UNIFESP, São Paulo, Brazil; Barcelona University, Barcelona, Spain
2:21 PM - 2:23 PM		Q&A
2:24 PM - 2:32 PM	164	REGULATION OF THE CAMP/PKA PATHWAY BY RED LIGHT(640nm) IN PC12 AND C2C12 CELLS IS INVOLVED IN ANTIOXYGENATION OF PHOTOBIO-MODULATION <i>Ling Zhu★, Mei Gao, Luodan Yang, Shaojuan Hu, Fan Li, Timon Cheng-Yi Liu</i> South China Normal University, Guang Zhou, Guang Dong, China
2:33 PM - 2:35 PM		Q&A
2:36 PM - 2:41 PM	LB30	PRESENCE OF NON-VISUAL OPSINS IN MAMMALIAN DORSAL ROOT GANGLION NEURONS <i>Juanita J. Anders★, Xingjia Wu</i> Uniformed Services University of the Health Sciences, Bethesda, MD
2:42 PM - 2:44 PM		Q&A
2:45 PM - 3:30 PM		BREAK
3:31 PM - 3:35 PM		Introduction - M. Cristina Chavantes; Terrance Baker
3:36 PM - 3:44 PM	165	LOW-LEVEL LASER THERAPY IN RESOLUTION OF FIBROTIC PROCESS AND SIGNALLING: NEW TOLL TO TISSUE REPAIR <i>Flavia Mafra de Lima★→, Reinaldo Correia da Silva, Renata Kelly da Palma, Marco Antonio Cenedeze, Mauro Perretti, Niels Olsen Saraiva Câmara</i> Federal University of São Paulo, São Paulo, Brazil; Nove de Julho University, São Paulo, Brazil; Queen Mary University of London, London, United Kingdom
3:45 PM - 3:47 PM		Q&A
3:48 PM - 3:56 PM	166	EFFECTS OF LOW-LEVEL LASER THERAPY ON KNEE REPAIR IN AN EXPERIMENTAL MODEL OF INDUCED GOUTY ARTHRITIS <i>Júlia Bovo, Jaqueline Gonçalves, Hamilton Alonso, Ivens Nakagawa, Airton Felizatti, Marcelo Esquisatto, Fernando Bomfim★</i> UNIARARAS, Araras, São Paulo, Brazil
3:57 PM - 3:59 PM		Q&A
4:00 PM - 4:08 PM	167	LOW-LEVEL LASER ASSOCIATED WITH CARBON BIOMATERIAL MAY IMPROVE THE BONE HEALING PROCESS <i>Rachel Dalmaso★→, Patricia Almeida Silva, Rodney Capp Pallotta, Rodrigo Carvalho, Gisele Amaral-Labat, Guilherme FB Lenz e Silva, Gilles Arnold, Rachid Rahouadj, Jossano Saldanha Marcuzzo, Rodrigo AB Lopes-Martins, Rodrigo Labat Marcos</i> UNINOVE, São Paulo, Brazil; Universidade do Sagrado Coração, Bauru, São Paulo, Brazil; POLI - USP, São Paulo, Brazil; Laboratoire de Physique et Mécanique Textiles, Mulhouse, France; Université de Lorraine - INPL, Nancy, Lorraine, France; INPE, São José dos Campos, Brazil; UMC, Mogi, São Paulo, Brazil
4:09 PM - 4:11 PM		Q&A
4:12 PM - 4:20 PM	168	PRESENCE OF OSTEOCALCIN PROTEIN AND GENE EXPRESSION IN BONE TISSUE AFTER LOW-LEVEL LASER IRRADIATION <i>Fernando Bomfim★→, Valeria Sella, Ronaldo Thomasini, Helio Plapler</i> Federal University of São Paulo, São Paulo, Brazil; Medical Faculty of Diamantina, Diamantina, Brazil
4:21 PM - 4:23 PM		Q&A
4:24 PM - 4:32 PM	169	IS SINGLE APPLICATION OF 810nm LASER EFFECTIVE IN FASTER BONE FORMATION?: A RABBIT HISTOMORPHOMETRIC STUDY <i>Shrikar Desai★→</i> HKE'S S.N. Dental College, Kalaburagi, Karnataka, India
4:33 PM - 4:35 PM		Q&A

TIME	ABSTR	ACTIVITY
4:36 PM - 4:44 PM	170	EFFECT OF PHOTOBIO-MODULATION ON THE LEUKOCYTE RECRUITMENT INDUCED BY BOTHROPS JARARACA VENOM IN THE MICROCIRCULATION OF THE CREMASTER MUSCLE OF MICE <i>Luciana Silva★, Ingrid Sestrem-Linhares, Viviane Gouveia, Danila Oliveira, Luis Gonçalves, Stella Zamuner</i> Universidade Nove de Julho, São Paulo, Brazil; Butantan Institute, São Paulo, Brazil
4:45 PM - 4:47 PM		Q&A
4:48 PM - 4:56 PM	171	EFFECTS OF PHOTOBIO-MODULATION THERAPY AND DICLOFENAC ON MORPHOMETRIC ASPECTS IN AN EXPERIMENTAL MODEL OF SKELETAL MUSCLE TRAUMA IN DIABETIC RATS <i>Ligiane Souza Santos, Joyce Camilla Saltorato, Rodrigo Labat Marcos, Geraldo Rosa Jr., Cleuber Rodrigo de Souza Bueno, Ana Alice Teixeira Napolitano, Nathália Araújo Miguel, Rodrigo Carvalho★</i> Universidade do Sagrado Coração, Bauru, São Paulo, Brazil; UNINOVE, São Paulo, Brazil
4:57 PM - 4:59 PM		Q&A
5:00 PM - 5:08 PM	172	PHOTOBIO-MODULATION IN EXPERIMENTAL MODEL OF ISCHEMIA AND REPERFUSION IN TRAM FLAP IN RATS <i>Ana Carolina Gandara Brandimarte, Brenda Cumpri, Larissa Rizzo, Arthur Santos, M. Cristina Chavantes, Ivone Duarte★</i> Universidade Nove de Julho, São Paulo, Brazil
5:09 PM - 5:11 PM		Q&A
5:12 PM - 5:20 PM		Panel Discussion
5:21 PM - 5:30 PM		Conclusion

Ask Me Anything - Special Event (Non-CME)

Saturday, April 8 | 3:10 PM-3:30 PM | Room: Halls D/E

Hosts Eric F. Bernsetin, MD MSE; Suzanne L. Kilmer, MD

Description This event provides attendees with the opportunity to listen to and participate in an energetic, open questions/answers discussion. Inquiries to the session hosts may focus on devices, clinical approaches and personal recommendations for practice.

TIME	ACTIVITY
3:10 PM-3:30 PM	Open Q&A - Eric F. Bernstein, Suzanne L. Kilmer

Cutaneous Applications - Abstract Session

Sunday, April 9 | 7:00 AM - 10:30 AM | Room: Hall F

AMA PRA CATEGORY 1 CME CREDITS: 3.50 MAX

Educational Needs This session will explore the use of lasers and energy-based devices to treat a wide spectrum of cutaneous conditions. Controlled studies demonstrating objective evidence in support of new devices and new uses of established devices will be presented. Attendees will be encouraged to participate in discussion of the presented data. Updating current knowledge on the use of energy-based devices as well as maximizing results and minimizing complications will be a prime objective of this session.

Participants This session is for all health care practitioners, engineers, scientists, or any interested individuals working with lasers and energy-based devices. All health care personnel will benefit by learning how to maximize results of treatment of cutaneous conditions while minimizing complications.

Background Requirements Participants with a basic understanding of skin biology and physics will derive maximal benefit from the presentations, however, all meeting attendees are welcome to attend and contribute.

Instructional Content/Expected Learning Objectives Attendees will learn about what's new in the field of lasers and energy-based devices. Presentations of new devices and new uses for established devices will provide attendees with data to incorporate into practice or research.

Hot topics

- » Nanoparticles: Magic Bullets.
- » The Picosecond Revolution Continues: A Deeper Understanding of Skin Rejuvenation Techniques.
- » Skin Cancer Treatment and Prevention.

Chair(s) Mathew M. Avram, MD, JD; Kelly J. Stankiewicz, MD, FAAD

TIME	ABSTR	ACTIVITY
7:00 AM - 7:02 AM		Introduction
HYPERHIDROSIS		
7:03 AM - 7:09 AM	60	A RETROSPECTIVE MULTISTUDY ANALYSIS OF AXILLARY ODOR REDUCTION FOLLOWING MICROWAVE TREATMENT <i>Jeremy Brauer★, Roy Geronemus</i> Laser & Skin Surgery Center of New York, New York, NY
INFECTIOUS		
7:10 AM - 7:16 AM	61	EFFICACY OF COMBINATION THERAPY WITH EFINAACONAZOLE 10% SOLUTION AND 1064nm Nd:YAG LASER FOR TREATMENT OF TOENAIL ONYCHOMYCOSIS <i>Neil S. Sadick★</i> Weill Cornell Medicine, New York City, NY
SKIN TIGHTENING		
7:17 AM - 7:23 AM	62	A RANDOMIZED, SPLIT-FACE, EVALUATOR-BLIND CLINICAL TRIAL COMPARING MONOPOLAR RADIOFREQUENCY TO MICROFOCUSED ULTRASOUND WITH VISUALIZATION FOR LIFTING AND TIGHTENING OF THE FACE AND UPPER NECK <i>Isabela Jones★, Monique Wilson, Joanna Bolton, Lisa Zaleski-Larsen, Isabella Guiha, Mitchel Goldman, Douglas Wu</i> Cosmetic Laser Dermatology, San Diego, CA

TIME	ABSTR	ACTIVITY
SCARRING		
7:24 AM - 7:30 AM	63	A PILOT STUDY OF THE COMBINED USE OF 755nm ALEXANDRITE PICOSECOND LASER AND INTRADERMAL AIR DISSECTOR IN THE TREATMENT OF ATROPHIC ACNE SCARS IN ASIAN PATIENTS <i>Victoria Belo★, Guada Capiz, Michelle Villanueva</i> Belo Medical Group, Makati City, Metro Manila, Philippines; Belo Medical Group, Taguig City, Metro Manila, Philippines; Belo Medical Group, San Juan City, Metro Manila, Philippines
7:31 AM - 7:37 AM	64	FRACTIONAL 1064nm and 532nm PICOSECOND-DOMAIN LASER TREATMENT OF ACNE SCARS <i>Eric Bernstein★, Kevin Schomacker, Jayant Bhawalkar</i> Main Line Center for Laser Surgery, Ardmore, PA; Syneron Candela, Wayland, MA
7:38 AM - 7:44 AM	65	A SPLIT SCAR COMPARISON STUDY OF HYPERTROPHIC SCAR TREATMENT WITH FRACTIONAL LASER vs FRACTIONAL LASER-ASSISTED TOPICAL CORTICOSTEROIDS DELIVERY <i>Woraphong Manuskitti★, Arisa Kaewkes, Puntarika Phankosol, Rungsiam Wanitphakdeedecha</i> Siriraj Hospital, Mahidol University, Bangkok, Thailand
7:45 AM - 7:51 AM	66	COMPARING THE 585/1064nm MULTIPLEX LASER TO THE 585nm PULSED DYE LASER IN THE TREATMENT OF SURGICAL SCARS <i>Adam Aldahan, Stephanie Mlacker, Vidhi Shah, John Tsatalis, Vincent Hsu, Tara Brah, Sahal Samarkandy, Mohammed Alsaidan, Amr Molla, Jen Ledon, Michael McLeod, Andrew Miner, Keyvan Nouri★</i> University of Miami, Miami, FL
7:52 AM - 7:58 AM	67	SAFETY OF NON-ABLATIVE FRACTIONAL LASER RESURFACING FOR ACNE SCARS WITHIN 30 DAYS AFTER TREATMENT WITH ORAL ISOTRETINOIN <i>Sandeep Saluja★, Erika Summers, Payam Tristani-Firouzi, David Smart</i> University of Utah, Salt Lake City, UT
7:59 AM - 8:05 AM	68	AUTOLOGOUS CELL SUSPENSION GRAFTING FOR DEPIGMENTED SKIN: A RANDOMIZED CONTROLLED TRIAL COMPARING FULL-SURFACE AND FRACTIONAL CO2 LASER RECIPIENT SITE PREPARATION <i>Albert Wolkerstorfer★, Arne Meesters</i> Academic Medical Center Amsterdam, North Holland, Netherlands
8:06 AM - 8:16 AM	LB17	OBJECTIVE MELANIN MEASUREMENTS: REVIEW OF NOVEL DOSIMETRY GUIDANCE DEVICE FOR IPL'S: DOES A TAN AFFECT EPIDERMAL TOLERANCE FOR PATIENTS WITH EQUIVALENT PIGMENT DENSITIES <i>E. Victor Ross★</i> Scripps Clinic, San Diego, CA
8:17 AM - 8:23 AM		Q&A
PIGMENT		
8:24 AM - 8:30 AM	69	RESPONSE TO LASER TREATMENT OF CAFÉ-AU-LAIT MACULES BASED ON MORPHOLOGIC FEATURES <i>Daniel Belkin★, Julia Pettersen Neckman, Hana Jeon, Paul Friedman, Roy Geronemus</i> Laser & Skin Surgery Center of New York, New York, NY
8:31 AM - 8:37 AM	70	CLINICAL EVALUATION OF A PICOSECOND LASER FOR THE TREATMENT OF SOLAR LENTIGINES <i>Hana Jeon★, Daniel Belkin, Julia Pettersen Neckman, Bradley Bloom, Jeremy Brauer, Roy Geronemus</i> Laser & Skin Surgery Center of New York, New York, NY
8:38 AM - 8:44 AM	71	COMPARISON STUDY OF A 755nm PICOSECOND LASER VS A 755nm NANOSECOND LASER IN THE TREATMENT OF DERMAL MELANOSIS <i>Taro Kono★, Henry H.L. Chan, William Groff, Kotaro Imagawa, Tadashi Akamatsu</i> Tokai University Isehara, Kanagawa, Japan; University of Hong Kong, Hong Kong, China; Cosmetic Laser Dermatology, San Diego, CA
8:45 AM - 8:51 AM	72	SUCCESSFUL AND SAFE USE OF Q-SWITCHED LASERS IN THE TREATMENT OF NEVUS OF OTA IN CHILDREN WITH PHOTOTYPES IV-VI <i>Daniel Belkin★, Hana Jeon, Elliot Weiss, Jeremy Brauer, Roy Geronemus</i> Laser & Skin Surgery Center of New York, New York, NY

TIME	ABSTR	ACTIVITY
8:52 AM - 8:58 AM	73	PROSPECTIVE, SPLIT-FACE, EVALUATOR-BLINDED STUDY OF PICOSECOND ALEXANDRITE 755nm LASER VERSUS Q-SWITCHED ALEXANDRITE 755nm LASER ON FRECKLES IN CHINESE <i>Tong Lin★, Yin Yang, Lifang Guo, Yiping Ge, Qiuju Wu, Yule Wu, Mengli Zhang, Rong Zeng</i> Institute of Dermatology, Chinese Academy of Medical Sciences, Nanjing, Jiangsu China
8:59 AM - 9:05 AM	74	SAFETY AND EFFICACY OF THE 755nm PICOSECOND LASER WITH DIFFRACTIVE LENS FOR THE TREATMENT OF FACIAL MELASMA IN CHINESE <i>Samantha Shek★, Chi Yeung, KY Kung, Martin MH Chung, Taro Kono, Henry H.L. Chan</i> The University of Hong Kong, Hong Kong, China; Tokai University Isehara, Kanagawa, Japan
9:06 AM - 9:16 AM	LB18	ACCELERATED TATTOO REMOVAL FACILITATED WITH ACOUSTIC WAVE DEVICE: DELIVERING UP TO 90% FADING IN A SINGLE OFFICE VISIT <i>Omer Ibrahim★, Michael Kaminer</i> SkinCare Physicians, Chestnut Hill MA
9:17 AM - 9:25 AM		Q&A
TATTOO		
9:26 AM - 9:32 AM	75	CLEARANCE OF PROFESSIONAL MULTICOLOR TATTOOS WITH A NOVEL 785nm PICOSECOND-DOMAIN LASER <i>Eric Bernstein★, Kevin Schomacker, Jayant Bhawalkar</i> Main Line Center for Laser Surgery Ardmore, PA; Syneron-Candela, Wayland, MA
9:33 AM - 9:39 AM	76	Q-SWITCHED LASER TREATMENT OF TATTOOS USING A TRANSPARENT PERFLUORODECALIN-INFUSED PATCH: A PIVOTAL TRIAL <i>Brian Biesman★</i> Nashville Centre for Laser & Facial Surgery, Nashville, TN
VASCULAR		
9:40 AM - 9:46 AM	77	EVALUATION OF EFFICACY AND SAFETY OF 500-600nm INTENSE PULSED LIGHT IN TREATING FACIAL TELANGIECTASIA <i>Huihui Gan, Baishuang Yue, Zhong Lu★</i> Huashan Hospital, Fudan University, Shanghai, China; Jinshan Hospital, Fudan University, Shanghai China
9:47 AM - 9:53 AM	78	EVALUATION OF THE SAFETY AND EFFICACY OF MICROFOCUSED ULTRASOUND WITH VISUALIZATION (MFU-V) FOR THE TREATMENT OF SIGNS AND SYMPTOMS OF ERYTHEMATOTELANGIECTATIC ROSACEA-FINAL DATA <i>Mark Lupin★, Rosalyn George, Joel Schlessinger, David Amato, David McDaniel</i> Cosmedica Laser Centre, Victoria, BC, Canada; Wilmington Dermatology Center, Wilmington, NC; Skin Specialist, Omaha, NE; All About Faces, Hummelstown, PA; Laser and Cosmetic Center, Virginia Beach, VA
9:54 AM - 10:00 AM	79	NOVEL VERY SHORT PULSE INTENSE PULSED LIGHT DEVICE vs PULSED DYE LASER FOR TREATMENT OF FACIAL REDNESS <i>E. Victor Ross★, James Jensen, Courtney Green</i> Scripps Clinic, San Diego, CA
10:01 AM - 10:07 AM	80	PATIENT SATISFACTION FOR VASCULAR TREATMENT FOR ROSACEA <i>Jill Waibel★, Ashley Rudnick, Adam Wulkan</i> Miami Dermatology and Laser Institute, Miami, FL; University of Miami, Miami, FL
10:08 AM - 10:14 AM	81	ONE-YEAR FOLLOW UP OF A TRASER CLINICAL TRIAL FOR THE TREATMENT OF NASAL TELANGIECTASIAS <i>Elizabeth Geddes★, Karl Tillman, Christopher Zachary, Paul Friedman</i> Dermatology & Laser Surgery Center, Houston, TX; Solta Medical, Bothell, WA; University of California Irvine, Irvine, CA
10:15 AM - 10:21 AM	LB19	TREATMENT OF FACIAL VASCULAR LESIONS WITH A NOVEL 589nm SOLID-STATE LASER – FIRST CLINICAL OBSERVATIONS <i>Carsten Philipp, Serge Mordon★</i> Zentrum Lasermedizin, Evangelische Elisabeth Klinik, Berlin, Germany; University Lille, INSERM, CHU Lille, U1189 - ONCO-THAI, Lille, France
10:22 AM - 10:30 AM		Q&A

Early Career Abstracts and Luminary Pearls - Abstract Session

Sunday, April 9 | 7:10 AM - 10:30 AM | Room: 30 C/D

AMA PRA CATEGORY 1 CME CREDITS: 3.25 MAX

Educational Needs This session will educate the participants on novel uses and applications of lasers and light based devices in medical, cosmetic, and surgical dermatology.

Participants This session is designed for residents, fellows, and medical students.

Background Requirements Participants should have a basic knowledge of laser and light-based devices.

Instructional Content/Expected Learning Objectives After this session, participants will gain insight into new clinical research and basic science involving lasers and light-based energy devices for multiple medical conditions.

Hot topics

- » Medical applications of laser and light-based devices
- » Multiple studies exploring the efficacy of laser and light based devices for medical diseases

Chair(s) Bradley S. Bloom, MD; Wesley Moy, BS, MS, PhD; Thomas E. Rohrer, MD; Anthony M. Rossi, MD, FAAD

Special Speaker(s) Kristen M. Kelly, MD

TIME	ABSTR	ACTIVITY
7:10 AM - 7:13 AM		Introduction
ULTRASHORT PULSES AND PIGMENT		
7:14 AM - 7:20 AM	LB20	A PILOT STUDY OF SUBDERMAL RADIOFREQUENCY FOR REDUCTION OF MILD TO MODERATE NECK SKIN LAXITY <i>Mara C. Weinstein Velez★, Kathleen Petrell, Jeffrey Dover</i> SkinCare Physicians, Chestnut Hill, MA
7:21 AM - 7:27 AM	82	COMPARISON OF PICOSECOND AND NANOSECOND PULSE DURATIONS IN TREATMENT OF BLACK TATTOOS <i>Timothy McGraw★→, Mark Taylor</i> Gateway Aesthetic Institute and Laser Center, Salt Lake City, UT
7:28 AM - 7:34 AM	83	ULTRASONIC MODULATION OF TISSUE OPTICAL PROPERTIES TO INCREASE TRANSDERMAL LIGHT TRANSMISSION <i>Paul Whiteside★→, Chenxi Qian, Nicholas Golda, Heather Hunt</i> University of Missouri, Columbia, MO
7:35 AM - 7:41 AM	84	<i>Dr. Richard E. Fitzpatrick Clinical Research and Innovation Award Recipient and Outstanding Early Career Clinical Abstract Award Recipient:</i> SURGICAL OUTCOMES OF LENTIGO MALIGNA MELANOMA PREVIOUSLY TREATED COSMETICALLY AS BENIGN PIGMENTED LESIONS <i>Brian Hibler★→, Karen Connolly, Erica Lee, Kishwer Nehal, Anthony Rossi</i> Memorial Sloan Kettering Cancer Center, New York, NY
7:42 AM - 7:48 AM	85	SUCCESSFUL TREATMENT OF MELASMA USING A MODIFIED KLIGMAN FORMULA COMBINED WITH A LOW FLUENCE QS Nd:YAG LASER <i>Monica Enamandram★→, Sarah Sheu, Zakia Rahman</i> Stanford Healthcare, Redwood City, CA
7:49 AM - 7:51 AM		Q&A
7:52 AM - 7:55 AM		Ultrashort Pulses and Pigment Pearl - Thomas E. Rohrer
ABLATIVE		
7:56 AM - 8:02 AM	86	MANAGING MELASMA WITH FRACTIONAL CO₂ LASER <i>Glauce Neff★→</i> Hospital Guilherme Álvaro, Santos, Brazil
8:03 AM - 8:09 AM	87	USE OF ABLATIVE FRACTIONAL CO₂ LASER FOR SCARS IN SKIN TYPE IV-VI <i>Dhwani Mehta★→, David Ozog</i> Henry Ford Hospital, Detroit, MI

TIME	ABSTR	ACTIVITY
8:10 AM - 8:16 AM	88	PLATELET RICH PLASMA INCREASED CLINICAL EFFICACY OF FRACTIONAL CARBON DIOXIDE LASER FOR ACNE SCAR BY ENHANCEMENT OF TGFβ ASSOCIATED FIBROGENETIC PATHWAY <i>Seonguk Min★→, Jungyoon Moon, Ji Young Yoon, Seon Yong Park, Dae Hun Suh</i> Seoul National University Hospital, Seoul, Republic of Korea
8:17 AM - 8:23 AM	89	A TOPICAL ANTI-INFLAMMATORY HEALING REGIMEN UTILIZING CONJUGATED LINOLENIC ACID FOR USE POST-ABLATIVE LASER RESURFACING OF THE FACE: A RANDOMIZED CONTROLLED TRIAL <i>Isabela Jones★, Monique Wilson, Isabella Guiha, Mitchel Goldman, Douglas Wu</i> Cosmetic Laser Dermatology, San Diego, CA
8:24 AM - 8:30 AM	90	THE USE OF CO₂ TO CORRECT MALARPHYMA <i>Ali Arnaout★→, Thomas Dobbs, Paul Caine, Jeremy Yarrow, Richard Logan, Max Murison</i> Welsh Centre for Burns and Plastics, Swansea, Wales, United Kingdom; Princess of Wales Hospital, Bridgend, Wales, United Kingdom
8:31 AM - 8:37 AM	91	THE ROLE OF THE CARBON DIOXIDE LASER IN THE TREATMENT OF ADVANCED HIDRADENITIS SUPPURATIVA AND IN POST-SURGICAL COMPLICATIONS <i>Cynthia Nicholson★, Iltefat Hamzavi, David Ozog</i> Henry Ford Hospital, Detroit, MI
8:38 AM - 8:44 AM	92	<i>Outstanding Early Career Clinical Abstract Award Recipient:</i> FRACTIONAL LASER-ASSISTED TOPICAL DELIVERY OF THE ANTICANCER AGENT CISPLATIN <i>Emily Wenande★→, Uffe Høgh Olesen, Malene Boesen, Stefan Sturup, Bente Gammelgaard, Merete Haedersdal</i> Bispebjerg University Hospital, Copenhagen, Denmark; Wellman Center for Photomedicine, Massachusetts General Hospital, Harvard Medical School, Boston, MA
8:45 AM - 8:48 AM		Q&A
8:49 AM - 8:51 AM		Ablative Pearl - Anthony M. Rossi
NON-ABLATIVE		
8:52 AM - 8:58 AM	93	SUCCESSFUL TREATMENT OF STEATOCYSTOMA MULTIPLEX WITH A 1450nm DIODE LASER <i>Benjamin Garden★→, Jerome Garden, Dina Yaghmai, Abnoeal Bakus, Mary Massa</i> Northwestern University, Chicago, IL
8:59 AM - 9:05 AM	94	COMPARATIVE STUDY ON BRUISE REDUCTION UTILIZING PULSED DYE LASER vs INTENSE PULSED LIGHT <i>Wesley Wu★→, Ramsey Markus</i> Houston Methodist Hospital, Houston, TX; Baylor College of Medicine, Houston, TX
9:06 AM - 9:12 AM	95	<i>Outstanding Early Career Clinica Abstract Award Recipient:</i> FRACTIONAL ABLATIVE LASER ACQUISITION: UTILIZING BREAK-EVEN ANALYSIS IN YOUR PRACTICE <i>Lance Chapman★→, Katherine Ferris, Christopher Zachary</i> University of California Irvine, Irvine, CA
9:13 AM - 9:19 AM	96	CREATING AN EFFECTIVE LASER PROCEDURAL VIDEO <i>Dennis Porto★, David Ozog</i> Henry Ford Health System, Detroit, MI
9:20 AM - 9:23 AM		Q&A
9:24 AM - 9:27 AM		Non-Ablative Pearl - Bradley S. Bloom
DIAGNOSTIC		
9:28 AM - 9:34 AM	97	REFLECTION SPECTRUM COMPARISON IN VIVO OF VULVAR LICHEN SCLEROSUS WHEN TREATED WITH CORTICOSTEROID THERAPY, PHOTOBIO-MODULATION, OR PHOTODYNAMIC THERAPY <i>Guelton Guedes★→, Renata Belotto, Gabriela Campos, Yhago Geraldo, Wellington, Moreira, Nadja Maciel, Barbara Camargo, Daniela Silva</i> Universidade Nove de Julho, São Paulo, Brazil
9:35 AM - 9:41 AM	98	TEMPORAL DECAY OF TOPICAL GLYCOLYSIS MARKER: IN VIVO FLUORESCENCE IMAGING OF DEREGULATION OF ENERGY METABOLISM IN ORAL NEOPLASIA <i>Rahul Pal★, Paula Villarreal, Jinping Yang, Suimin Qiu, Susan McCammon, Gracie Vargas</i> University of Texas Medical Branch, Galveston, TX
9:42 AM - 9:48 AM	99	VIDEODERMOSCOPY AS A NOVEL TOOL FOR THE VISUALIZATION OF LASER THERAPEUTIC ENDPOINTS <i>Sarah Sheu★→, Monica Enamandram, Zakia Rahman</i> Stanford Dermatology, Redwood City, CA

TIME	ABSTR	ACTIVITY
PHOTOBIOIMODULATION		
9:49 AM - 9:55 AM	100	LOW-LEVEL LASER (LLL) REDUCES PULMONARY INFLAMMATION IN ASTHMA EXPERIMENTAL MODEL INDUCED BY OVALBUMIN: VIA LIPOXYGENASE <i>Aurileia Brito★, Nicole Rigonato-Oliveira, Luana Vitoretti, Renata de Palma, Tawany Goncalves-Santos, Cintia Stefano Alves, Stephanie Soares, Flavio Aimbire, Rodolfo Vieira, Ana Paula Ligeiro-Oliveira</i> University Nove de Julho, São Paulo, Brazil; University Federal De São Paulo, Sao Jose Dos Campos, Brazil
9:56 AM - 10:02 AM	101	EFFECT OF LOW-LEVEL LASER THERAPY ON CHRONIC LUNG INFLAMMATION IN EXPERIMENTAL MODEL OF ASTHMA: A COMPARATIVE STUDY OF DOSES <i>Nicole Rigonato-Oliveira★→, Aurileia Brito, Luana Vitoretti, Alana Dias, Stephanie Soares, Rodolfo Vieira, Ana Paula Ligeiro-Oliveira</i> Nove de Julho University, São Paulo, Brazil
10:03 AM - 10:09 AM	102	ANALYSIS OF PHOTOBIOIMODULATION IN THE POPLITEAL VEIN IN PATIENTS WITH SUBACUTE DEEP VEIN THROMBOSIS: PLASMATIC NITRIC OXIDE (NO) GENERATION AND POST-TRANSCRIPTIONAL MOLECULAR ALTERATIONS <i>Eduardo Brigidio, Regiane Feliciano, Adjaldes Moraes, Joao Maretti, Larissa Caproni, M. Cristina Chavantes, Andrey Serra, Paulo Carvalho, Jose Silva★</i> Hospital Mandaqui, São Paulo, Brazil; Nove de Julho University, São Paulo, Brazil
10:10 AM - 10:16 AM	103	<i>Outstanding Early Career Scientific Abstract Award Recipient:</i> PHOTOBIOIMODULATION EFFECTS ON GENE AND PROTEIN EXPRESSION OF PROINFLAMMATORY CHEMOKINES AND CYTOKINES BY J774 MACROPHAGES POLARIZED TO M1 PHENOTYPE <i>Kaline Brito Sousa★→, Loriana de Santana Araujo, Naya Madeira Pedroso, Debora de Souza Santos, Maria Fernanda Rodrigues, Raquel Mesquita Ferrari, Sandra Bussadori, Kristianne Fernandes</i> Universidade Nove de Julho, São Paulo, Brazil
10:17 AM - 10:20 AM		Q&A
10:21 AM - 10:24 AM		Diagnostic and Photobiomodulation Pearl - Kristen M. Kelly
10:25 AM - 10:30 AM		Conclusion

ESLD - Laser and EBD Medicine for Breast Cancer Patients - Abstract Session

Sunday, April 9 | 7:30 AM - 10:30 AM | Room: 30 A/B

AMA PRA CATEGORY 1 CME CREDITS: 3.00 MAX

Educational Needs This session will explore parameters for laser treatment for different skin lesions for multiple medical indications that may still need optimization. It is a challenge for the practicing physician to choose not only the right device for the intervention but also the choice of parameters remains a challenge as research is often still unsatisfactory. By actively exchanging and discussing device choices and treatments parameters for different medical indications the participant will enhance their knowledge about laser and energy-based devices, will be more at ease with laser and energy based device settings and ultimately will have satisfying outcomes for the physician and most of all for their patients.

Participants Any practitioner using laser and energy-based devices in medical applications.

Background Requirements A solid background knowledge of laser and energy-based device application will be helpful to join the in depth discussion. However even beginning laser and energy-based device practitioners will have the opportunity to discuss their difficulties encountered in their daily practice.

Instructional Content/Expected Learning Objectives The attendees are expected to come out after the session with a better understanding about how to optimize laser parameters for specific indications to improve the outcome and avoid unwanted side effects. Attendants will also learn about new indications in which laser and energy-based devices might be a valid alternative treatment tool. Attendees will furthermore have the opportunity to learn about and share their own practical treatment pearls within the discussion of each presentation.

Hot topics

- » Prevention of acute and treatment of chronic radiation dermatitis: although significant improvements have been made in the last decades in radiotherapy, radiation dermatitis is still a problem facing a large percentage of the treated patients.
- » Photobiomodulation appears to be a safe and effective tool to drastically reduce the incidence of acute radiation dermatitis. Unfortunately it is not used in the daily routine yet.
- » Chronic radiation dermatitis is affecting up to 1/3 of breast cancer patients 10 years after radiotherapy. Vascular lasers have been shown to improve quality of life of the affected patient. ESLD public awareness campaign tries to make physicians and patients aware of this effective treatment modality.
- » Panel discussion regarding the ASLMS New Beginnings Radiation Mark Removal and the ESLD Chronic Radiation Dermatitis public awareness and treatment campaigns.

Chair(s) Ashraf M. Badawi, MD, PhD; Hans Joachim Laubach, MD

Schedule on following pages

Abstract Presentations

TIME	ABSTR	ACTIVITY
7:30 AM - 7:35 AM		Introduction
7:36 AM - 7:51 AM	113	<u>Best of ESLD Laser and EBD Medicine for Breast Cancer Patients Award Recipient:</u> PREVENTION OF ACUTE RADIODERMATITIS BY PHOTOBIO-MODULATION: PRELIMINARY RESULTS OF A RANDOMIZED, PLACEBO-CONTROLLED TRIAL IN BREAST CANCER PATIENTS <i>Jolien Robijns★→, Sandrine Censabella, Stefan Claes, Lore Busse, Annelies Maes, Paul Bulens, Niels Hellings, Ivo Lambrichts, An Timmermans, Veerle Somers, Jeroen Mebis</i> Hasselt University, Hasselt, Limburg, Belgium; Jessa Hospital, Hasselt, Limburg, Belgium
7:52 AM - 7:57 AM		Q&A
7:58 AM - 8:08 AM	114	TREATMENT OF CHRONIC RADIODERMATITIS WITH VASCULAR LASERS <i>Jean-Michel Mazer★, Noel Schartz, Gwendoline Sebillle, Marie Jourdan</i> Centre Laser International de la Peau Paris, Paris, France
8:09 AM - 8:14 AM		Q&A
8:15 AM - 8:25 AM	115	<u>Best Overall Basic Science and Translational Research Award Recipient:</u> EFFECT OF LASER THERAPY ON QUALITY OF LIFE IN PATIENTS WITH RADIATION-INDUCED BREAST TELANGIECTASIAS <i>Nina Blank★→, Anthony Rossi, Kishwer Nehal, Stephen Dusza, Erica Lee</i> Memorial Sloan Kettering Cancer Center, New York, NY
8:26 AM - 8:31 AM		Q&A
8:32 AM - 8:42 AM	116	EPIDEMIOLOGICAL DATA CONCERNING "LASER TREATMENTS FOR BREAST CANCER SURVIVORS" PUBLIC AWARENESS CAMPAIGN <i>Hans-Joachim Laubach★, Yvon Perrillat, Jean Michel Mazer, Hugues Cartier</i> University Hospital of Geneva, Geneva, Switzerland; Private Practice, Grenoble, Isere, France; CLIPP, Geneva, Ile de France, France; Cabinet Privé, Arras, Pas de Calais, France
8:43 AM - 8:48 AM		Q&A
8:49 AM - 8:59 AM	117	TREATMENT OF RADIATION TATTOOS WITH A PLATFORM-BASED QS Nd:YAG 1064nm LASER <i>Girish Munavalli★</i> Dermatology, Laser, and Vein Specialists of the Carolinas, PLLC, Charlotte, NC; Wake Forest School of Medicine, Winston Salem, NC
9:00 AM - 9:04 AM		Q&A
9:05 AM - 9:15 AM	LB22	CRYOLIPOLYSIS FOR NON-SURGICAL REDUCTION OF LATERAL CHEST WALL FAT POST-MASTECTOMY <i>Peter Capizzi★, Jennifer Harrington</i> Capizzi MD, Charlotte, NC; Harrington Plastic Surgery, Plymouth, MN
9:16 AM - 9:21 AM		Q&A
9:22 AM - 9:32 AM	LB23	TREATMENT OF BREAST CANCER PATIENTS SUFFERING FROM GENITOURINARY SYNDROME OF MENOPAUSE USING VAGINAL ERBIUM LASER <i>Zdenko Vizintin★</i> Fotona, Ljubljana, Slovenia
9:33 AM - 9:38 AM		Q&A and Conclusion

Panel Discussion: ASLMS New Beginnings Radiation Mark Removal and ESLD Chronic Radiation Dermatitis Treatment Program

Speaker(s) R. Rox Anderson, MD; Hans Joachim Laubach, MD; Jean-Michel Mazer, MD; Anthony M. Rossi, MD; Emil A. Tanghetti, MD; Elizabeth Tanzi, MD

TIME	SPEAKER	TOPIC
9:39 AM - 9:47 AM	Ashraf Badawi, Hans Joachim Laubach	Introduction to Panel Discussion
9:48 AM - 9:53 AM	Emil A. Tanghetti	ASLMS - New Beginnings Radiation Mark Removal
9:54 AM - 9:59 AM	R. Rox Anderson	
10:00 AM - 10:05 AM	Jean-Michel Mazer	
10:06 AM - 10:11 AM	Hans Joachim Laubach	ESLD - Chronic Radiation Dermatitis Treatment
10:12 AM - 10:17 AM	Anthony M. Rossi	
10:18 AM - 10:30 AM		Q&A, Conclusion and Recommendations

ASLMS 2017 Greatest Hits - In Case You Missed It... - Special CME Session

Sunday, April 9 | 10:30 AM - 11:30 AM | Room: Hall F

AMA PRA CATEGORY 1 CME CREDITS: 1.00 MAX

Session Description: This featured 'Greatest Hits' session reviews key highlights selected by the Section Chairs and Course Directors of the main conference abstract sessions and educational programs. This one-hour session provides an overview of the key messages and recognizes some of the most intriguing contributions. This is the perfect opportunity to gain valuable insight about the sessions you may not have been able to attend.

Participants: All conference attendees are invited to attend.

Background Requirements: No special background requirements.

Director(s) Arisa E. Ortiz, MD; Bernard Choi, PhD; Nazanin A. Saedi, MD

Faculty Macrene R. Alexiades, MD, PhD; Ron R. Allison, MD; R. Rox Anderson, MD; Ashraf M. Badawi, MD, PhD; Terrance Baker, MD, MS; Bradley S. Bloom, MD; M. Cristina Chavantes, MD, PhD; Joel L. Cohen, MD, FAAD, FACMS; Andres Mar Erendsson, MD, PhD; Walfre Franco, PhD; Merete Haedersdal, MD, PhD, DMSc; Hans-Joachim Laubach, MD; Andrew C. Krakowski, MD; Anthony M. Rossi, MD, FAAD; Peter R. Shumaker, MD; Kelly J. Stankiewicz, MD, FAAD; Gracie Vargas, PhD

TIME	ACTIVITY
2017 ABSTRACT SESSION GREATEST HITS	
10:30 AM - 10:33 AM	Introduction
10:34 AM - 10:37 AM	Photobiomodulation - M. Cristina Chavantes
10:38 AM - 10:41 AM	Early Career Session - Anthony M. Rossi, Bradley S. Bloom
10:42 AM - 10:45 AM	Cutaneous Applications - Kelly J. Stankiewicz
10:46 AM - 10:49 AM	Basic Science and Translational Research - Walfre Franco; Gracie Vargas
10:50 AM - 10:53 AM	ESLD Challenging Clinical Cases - Hans-Joachim Laubach; Ashraf M. Badawi
10:54 AM - 10:57 AM	PAPDT-PDT - Ron R. Allison; Merete Haedersdal; Andres Mar Erendsson
10:58 AM - 11:02 AM	Conclusion and Introduction to Next Section
2017 EDUCATIONAL PROGRAM GREATEST HITS	
11:03 AM - 11:06 AM	Combining Injectables with Lasers, Lights and Energy-Based Devices - Joel L. Cohen
11:07 AM - 11:10 AM	Emerging Energy-Based Device Applications in Women's Health - Macrene R. Alexiades
11:11 AM - 11:14 AM	Energy-Based Treatments and Imaging for Skin Cancer - Arisa E. Ortiz
11:15 AM - 11:18 AM	New Treatments for Tackling Scars - Peter R. Shumaker; Andrew C. Krakowski
11:19 AM - 11:22 AM	Cutting Edge: Laser and Skin - R. Rox Anderson
11:23 AM - 11:26 AM	Marketing Your Photomedicine Practice (NAALT) - Terrance Baker
11:27 AM - 11:30 AM	Conclusion

Continuing Education Credits

A statement of CME credit hours will be issued to you on-site and/or following the conference which you can forward to your specialty boards, specialty academies or to your State Medical Examining Boards to meet your continuing education requirements.

ACCME Accreditation Statements

FOR ASLMS PROVIDED ACTIVITIES

The American Society for Laser Medicine and Surgery, Inc. is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

FOR JOINTLY PROVIDED ACTIVITIES

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of the American Society for Laser Medicine and Surgery (ASLMS) and:

- » ESLD – European Society for Laser and Energy-Based Devices
- » NAALT – North American Association for Photobiomodulation Therapy
- » PAPDT – Pan-American Photodynamic Association

ASLMS is accredited by the ACCME to provide continuing medical education for physicians.

Continuing Medical Education Credit **NEW - Electronic CME/CE Evaluations!**

CME/CE FOR REGISTERED COURSES, WORKSHOPS, BREAKFASTS AND LUNCHEONS

To receive CME/CE credit hours, registered attendees must submit an electronic CME/CE Evaluation for each registered course, workshop, breakfast or luncheon session. Electronic CME/CE Evaluations are available via the ASLMS 2017 mobile app.

Access to Mobile App and CME Evaluations:

- » PC, Laptop, Blackberry or Windows phone: Go to <https://aslms2017.gatherdigital.com/>
- » iPhone and iPad: Search "ASLMS 2017" on the Apple App Store.
- » Android: Search "ASLMS 2017" on the Google Play Store

LOG-IN and PASSWORD: When launching the app for the first time, please select "Request a Password" on the login screen and enter the email address you used to register for the Annual Conference. You will receive an email with a link to create a password. When prompted, please ALLOW for push notifications from the app.

Registered attendees will find the CME Evaluation for individual sessions within the Agenda section. Open the session and click on the CME/CE Evaluation. View the My Credits button in the app to keep track of the CME Credits you have earned. Upon completion of the electronic CME evaluation, registered attendees will receive a statement of CME credit via email.

CME FOR ANNUAL CONFERENCE SESSIONS

To receive CME credit hours for Annual Conference programming, registered attendees must submit an electronic CME Evaluation and document hours of attendance for each applicable session. Hours are calculated to the nearest quarter hour (.25). All submitted CME Evaluations will first be reviewed by the ASLMS central office. Letters of CME credit will be emailed to attendees within 30 days of the event.

Access to Annual Conference CME Evaluation:

bit.ly/ASLMS-2017ConferenceCME

EDUCATIONAL ACTIVITIES (MUST PRE-REGISTER)	CME CREDIT HOURS*	CE CONTACT HOURS**
PRE-CONFERENCE COURSES		
Fundamentals of Lasers in Health Care	8	9.5
Expert Treatment Approaches	3.75	4.5
Pediatric Laser Focus	3.75	4.5
Nursing/Allied Health	NA	8.5
Combining Injectables with Lasers, Lights, and Energy-Based Devices	3.75	4.5
Device Based Resurfacing, Rejuvenation and Recontouring	3.75	4.5
MASTERS LUNCHEONS		
Fully Ablative and Fractional Resurfacing	1.0	1.0
Neck Rejuvenation	1.0	1.0
Our Favorite Laser Pearls	1.0	1.0
Laser Treatment for Patients of Color	1.0	1.0
Energy-Based Treatments of Onychomycosis	1.0	1.0
MASTERS BREAKFASTS		
Device-Assisted Hair Restoration	1.0	1.0
Optimizing Patient Experience	1.0	1.0
State-of-the-Art in Tattoo Treatment	1.0	1.0
New Treatments for Tackling Scars	1.0	1.0
WORKSHOPS		
Laser Safety in the Practice Environment	2.0	2.0
Marketing your Photomedicine Practice: All Creatures Great and Small (NAALT Clinical and Veterinary)	2.0	2.0
Complications, Legal Issues and Laser Safety	2.0	2.0
Emerging Energy-Based Device Applications in Women's Health	2.0	2.0
Basic Mechanisms of Photobiomodulation	2.0	2.0
Laser-Assisted Drug Delivery	2.0	2.0
Non-Invasive Body Contouring	2.0	2.0
Periorbital Therapies and Rejuvenation	2.0	2.0
Energy-Based Treatments and Imaging for Skin Cancer	2.0	2.0
Laser and Energy-Based Treatment for Leg Veins	2.0	2.0

*AMA PRA Category 1 Credit™ hours are calculated by the quarter-hour (.25) increment and does not include break time.

**In compliance with the California Board of Registered Nursing, California Code of Regulations, CE credit hours are calculated as 1 credit hour per 50 minutes of instruction. A full 25 minutes must apply for .5 credit hour to be obtained.

The American Society for Laser Medicine and Surgery Inc. designates this live activity for a maximum of (credit total dependent on final course selection) AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Conference Only CME Calculations

FRIDAY, APRIL 7	HOURS	BREAK	CME - QUARTER-HOUR (.25) INCREMENTS
Basic Science & Translational Research	8:00 AM - 10:00 AM		2.00
Plenary Session	10:30 AM - 12:00 PM		1.50
ESLD – Challenging Clinical Cases/Series	1:30 PM - 2:45 PM		1.25
Basic Science & Translational Research	1:30 PM - 5:15 PM	45 min	3.00
Cutaneous Applications	1:30 PM - 5:15 PM	45 min	3.00
PAPDT - PDT	1:30 PM - 5:15 PM	45 min	3.00
Photobiomodulation	1:30 PM - 5:15 PM	45 min	3.00
Laser Dental Applications	3:30 PM - 5:15 PM		1.75
Maximum Credits Available for Friday			6.50

SATURDAY, APRIL 8	HOURS	BREAK	CME - QUARTER-HOUR (.25) INCREMENTS
Basic Science & Translational Research	8:00 AM – 9:00 AM		1.00
Moving from the Lab to the Clinic	9:30 AM – 10:30 AM		1.00
Cutting Edge: Laser and Skin	10:30 AM – 12:00 AM		1.50
ESLD – Challenging Clinical Cases/Series	1:30 PM – 2:45 PM		1.25
Clinical Pearls to Start your Career	1:30 PM – 5:30 PM	45 min	3.25
Basic Science & Translational Research	1:30 PM – 5:30 PM	45 min	3.25
Cutaneous Applications	1:30 PM – 5:30 PM	45 min	3.25
PAPDT - PDT	1:30 PM – 5:30 PM	45 min	3.25
Photobiomodulation / NAALT	1:30 PM – 5:30 PM	45 min	3.25
Women's Health	1:30 PM – 5:30 PM	45 min	3.25
Maximum Credits Available for Saturday			6.75

SUNDAY, APRIL 9	HOURS	BREAK	CME - QUARTER-HOUR (.25) INCREMENTS
Cutaneous Applications	7:00 AM – 10:30 AM		3.50
Early Career Abstracts & Luminary Pearls	7:10 AM – 10:30 AM		3.25
ESLD – Laser and EBD Medicine for Breast Cancer Patients / Panel Discussion of ASLMS New Beginnings Radiation Mark Removal and ESLD Chronic Radiation Dermatitis Treatment Program	7:30 AM – 10:30 AM		3.00
ASLMS 2017 Greatest Hits – In Case You Missed It...	10:30 AM – 11:30 AM		1.00
Maximum Credits Available for Sunday			4.50

ELECTRONIC POSTER VIEWING / EPOSTERS (TOTAL BREAK TIME FROM ALL DAYS)			
Maximum Credits Available for ePoster Viewing			4.00

Maximum Credits Available for 2017 Conference			21.75
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CME Mission Statement

The American Society for Laser Medicine and Surgery (ASLMS) is a multi-disciplinary organization whose membership includes representatives from all medical and surgical disciplines, nursing, allied health, dentistry, podiatric medicine, veterinary medicine, industry, research and government.

Purpose

ASLMS is dedicated to enhancing the understanding of lasers and the application of laser, light, energy-based and related technologies in biomedicine. The ASLMS is committed to continuous quality improvement and excellence in all of its activities.

Target Audience

The ASLMS is the largest organization of its kind and seeks to enhance dialogue between clinicians, scientists, industry and government through its variety of educational formats. The educational offerings are organized so that whether a novice or an expert, the attendees are provided with useful information.

Types of Activities Provided

The ASLMS accomplishes this goal through committee meetings, general sessions, the Annual Conference, educational courses, regional courses and other programs. A variety of educational formats are used including plenary lectures, scientific paper and poster presentations, panel discussions, didactic lectures, and educational courses. The latest information regarding biomedical applications of laser technologies is presented by experts from these fields. The ASLMS also functions as both advocate and advisor to a variety of groups and organizations as well as the Food and Drug Administration. These programs are designed to foster dialogue and discussion between clinicians, scientists, and manufacturers.

Content

Educational programs are designed to enable each participant to select the program and course of learning which best meets individual educational needs while at the same time covering a broad and more balanced range of topics.

Expected Results

Written and verbal evaluations as well as pre-test and post-test results measure the degree to which these educational objectives are met and also provide information used for planning and implementation of future activities. All attendees will have exposure to basic science and clinical laser use in their particular field(s) of interest through their attendance and participation in plenary sessions, focus sessions, specialty breakout sessions, and clinical entity-based courses and panel sessions. The multispecialty nature of ASLMS educational offerings, as well as the spirit of disclosure among scientists and clinicians, provides cross-fertilization between specialties that often leads to breakthroughs in medicine, and facilitates the ability of the participants to fill gaps in their knowledge relative to these technologies and their applications. Specialty-specific courses provide exposure to information of clinical and scientific importance to those practicing in the field. Other content, including but not limited to courses and comprehensive educational activities such as the "Fundamentals of Lasers in Health Care" course and regional courses provide educational tools and will measure the degree to which material has been learned through the use of standardized testing methods. It is expected that participants in these activities will identify gaps in their knowledge, competence, or performance. It is expected that participants will use the knowledge gained to improve their clinical outcomes as a result of their improved understanding of the best practices relative to patient treatment with these technologies, and their safe use.

Approved by the Board of Directors, November 15, 2016

Annual Conference Objectives

Educational Needs

The educational needs are to advance the science of laser medicine and surgery, provide better education in the safe and effective clinical use of laser and energy devices, involve trainees in laser education and train non-medical clinical personnel who work in the laser field. Through didactic lectures, panels, courses, and conversation, the ASLMS Annual Conference instructs attendees on everything from the basic science behind energy-tissue interactions to the most up-to-date laser and energy device research to their everyday practical use in the clinic.

Designated Participants

The designated participants are all those interested in the use of laser, energy devices, optics, and ancillary fields of surgery and medicine. The ASLMS Annual Conference is not a specialty specific conference but rather technology specific conference. Physicians attending the conference include dermatologists, plastic surgeons, otolaryngologists, urologists, general surgeons, neurologists, neurosurgeons, cardiologists, oncologists, gynecologists, just to name a few. Laboratory researchers attending the conference include, but are not limited to, engineers, physicists, biologists, and chemists. In addition, attendees from the nursing and allied health fields as well as industry itself are all welcome to share information about a variety of topics on lasers.

Background Requirements

While knowledge of lasers and energy devices and their use in medicine and surgery is desired, the conference is directed at all levels including novices coming to learn about lasers for the very the first time.

Expected Learning Outcomes

Attendees will leave the conference with a better understanding of the new basic science and clinical research in lasers and energy devices that may lead to novel therapeutic strategies. In addition, attendees will be better able to select appropriate laser and energy device therapies for specific patient problems; and anticipate, prevent, and manage adverse events associated with clinical laser treatments and collaborate with patients to develop treatment plans that meet their physical and emotional needs. Attendees will identify gaps in their knowledge and performance and will use the information presented at the Annual Conference to close those gaps and improve their clinical outcomes and reduce their complications. These learning objectives will be reached by attendance in Fundamentals courses, clinical application courses, luncheons, workshops, plenary session, clinical breakout sessions and combined sessions, expert panels, focus sessions, and poster presentations. The multispecialty nature of this conference provides cross-fertilization among specialties, which frequently leads to clinical breakthroughs in multiple fields.

Conference Highlights

Conference highlights include the traditional and very popular pre-conference courses on a wide variety of topics in lasers as well as the basics such as laser safety, fundamentals courses and the nursing and allied health course. There will be an increased emphasis on small group sessions including interactive breakfast and lunch sessions, more time for abstract/breakout sessions, and a cohesive special program for residents and fellows. Additional time will be dedicated to current topics of intense interest (Women's Health and Skin Cancer).

ASLMS Policy on Mechanism to Identify and Resolve Conflict of Interest

The American Society for Laser Medicine and Surgery is The American Society for Laser Medicine and Surgery is accredited by the Accreditation Council for Continuing Medical Education (ACCME). As such, we have made the choice to meet the ACCME's criteria for our practice of continuing medical education. Our accreditation is important to us. We look forward to working together to provide CME at the highest standard.

The ASLMS has implemented a process where everyone who is in a position to control the content of an educational activity must disclose to us all financial relationships with any commercial interest they and their spouse/partner may have received within the last 12 months. Should it be determined that a conflict of interest exists as a result of a financial relationship, it will need to be resolved prior to their involvement. In order to do this, all individuals who are in a position to control the content must complete a disclosure form. If any conflict develops between the time the disclosure form is completed and the educational activity, the individual must notify the ASLMS in writing and disclose the additional conflict of interest. Individuals, who refuse to disclose all financial relationships, will be disqualified from being a part of the planning and implementation of the CME activity.

Process of Identifying and Resolving Conflict of Interest

ANNUAL CONFERENCE (PROGRAM CHAIR, SECTION CHAIRS, SPEAKERS)

1. The President selects the Program Chair.
2. A Disclosure of Conflict of Interest "COI" form is completed by the Program Chair(s).
3. If a Program Chair refuses to disclose all financial relationships, he/she will be disqualified from participating in the program.
4. The CME Director reviews the Program Chair disclosure form and completes an Acknowledgement of Disclosure Review form. If it appears that a Program Chair has a COI as a result of a financial relationship, it will need to be resolved in order for the person to serve as Program Chair. If necessary, determination will be made by the CME Director under the guidance of the Board of Directors whether the proposed Program Chair can participate in the program.
5. The Program Chair(s) select Section Chairs.
6. A COI form is completed by each of the Section Chairs.
7. If a Section Chair refuses to disclose all financial relationships, he/she will be disqualified from participating in the program.
8. The CME Director reviews the Section Chair(s) COI forms and completes an Acknowledgement of Disclosure Review form. If it appears that a Section Chair has a COI as a result of a financial relationship, it will need to be resolved in order for the person to serve as Section Chair. If necessary, determination will be made by the Program Chair and CME Director under the guidance of the Board of Directors whether the proposed Section Chair can participate in the program.
9. The Speakers complete the online disclosure form. The Section Chairs review the abstract and Speaker disclosure and complete an Acknowledgement of Disclosure Review form. If it appears that a Speaker has a COI as a result of a financial relationship, it will need to be resolved prior to the activity. If necessary, the Section Chair, Program Chair and CME Director, under the guidance of the Board of Directors, will make the determination whether the proposed Speaker can participate in the program.
10. If any conflict develops between the time the disclosure form is completed and the educational activity, the individual must notify the ASLMS in writing and disclose the additional conflict of interest.
11. The Section Chair and Speaker disclosure information is posted online, provided to attendees via electronic link, included as part of the preliminary (online only) and final programs (online and print copy at conference) and published in the journal.
12. At the Annual Conference:
 - 12.1. Each Section Chair is provided with a checklist of Speakers who are required to disclose COI. The Section

Chair is instructed to remind the Speaker to verbally disclose COI prior to their presentation, sign off on the checklist provided, and return the form to the ASLMS.

- 12.2. In addition to a COI statement being posted online, provided via electronic link, and printed in program materials, a COI slide will be prepared by the ASLMS Central Office based on the information provided on the completed disclosure form. The slide will be inserted before each presentation on the Central Server and will include any proprietary interest in any drugs, instruments, or devices discussed in the presentation and/or any compensation received. Similarly, a slide will be shown to disclose the fact that the presentation content includes off-label uses of drugs or devices.
- 12.3. If a Speaker discloses a COI in writing, but does not verbally disclose prior to his/her presentation, the Section Chair will remind the Speaker at the end of the presentation to disclose the COI
- 12.4. If a Speaker does not pre-disclose in writing or verbally, but it becomes apparent that a COI exists, the Section Chair, Program Chair, CME Director and/or Board Member will notify the audience and the speaker of the perceived COI. The speaker will be warned that further failures to comply with policy will result in the speaker's inability to participate in CME related activities of ASLMS in the future. (The Board of Directors may, at its discretion, impose other sanctions it feels are appropriate).
- 12.5. Board members are provided with audit forms and asked to verify if Speakers disclose COI.
- 12.6. Attendees complete evaluation forms and are asked to comment about proper COI disclosure. Evaluation forms are reviewed by the CME Director, Program Chair(s) and Section Chairs after which appropriate corrective action is taken.

COURSES (DIRECTORS/FACULTY)

1. The Program Chair(s) select Course Directors.
2. A Disclosure of Conflict of Interest "COI" form is completed by all Course Directors.
3. If a Course Director refuses to disclose all financial relationships, he/she will be disqualified from participating in the program.
4. The CME Director reviews the Course Director disclosure forms. The CME Director completes an Acknowledgement of Disclosure Review form. If it appears that a Course Director has a COI as a result of a financial relationship, it will need to be resolved in order for the person to serve as Course Director. If necessary, determination will be made by the Program Chair(s) and CME Director under the guidance of the Board of Directors if a proposed Course Director can participate in the program.
5. The Course Director(s) select Faculty.
6. The COI forms are completed by all Faculty
7. If a Faculty Member refuses to disclose all financial relationships, he/she will be disqualified from participating in the program.
8. The Course Director(s) and CME Director review the faculty disclosure forms. Course Director(s) complete an Acknowledgement of Disclosure Review form. If it appears that a Faculty Member has a COI as a result of a financial relationship, it will need to be resolved in order for the person to serve as a Faculty Member. If necessary, determination will be made by the Course Director(s), Program Chair(s), and CME Director under the guidance of the Board of Directors whether the proposed Faculty Member can participate in the program.
9. If any conflict develops between the time the disclosure form is completed and the educational activity, the individual must notify the ASLMS in writing and disclose the additional conflict of interest.
10. Disclosure information is posted online, provided to attendees via electronic link, and printed in the final program.
11. At the conference:
 - 11.1. The Course Director(s) are provided with a checklist of Faculty Members who are required to disclose COI. The Course Director(s) are instructed to remind the Faculty to verbally disclose COI prior to their presentation, sign off on the checklist provided, and return the form to the ASLMS.
 - 11.2. In addition to a COI statement being printed in program materials, a COI slide will be prepared by the ASLMS Central Office based on the information provided on the completed disclosure form. The slide will be inserted before each presentation on the Central Server and will include any proprietary interest in any drugs, instruments, or devices discussed in the presentation and/or any compensation received. Similarly, a slide will be shown to disclose the fact that the presentation content includes off-label uses of drugs or devices.

- 11.3. If a Faculty Member discloses a COI in writing, but does not verbally disclose prior to his/her presentation, the Course Director will remind Faculty at the end of the presentation to disclose COI.
- 11.4. If a Faculty Member does not pre-disclose in writing or verbally, but it becomes apparent that a COI exists, the Course Director, Program Chair, CME Director and/or Board Member will notify the audience and the speaker of the perceived COI. The speaker will be warned that further failures to comply with policy will result in the speaker's inability to participate in CME related activities of ASLMS in the future. (The Board of Directors may, at its discretion, impose other sanctions it feels are appropriate).
- 11.5. Board members are provided with audit forms and asked to verify if Faculty discloses COI.
- 11.6. Attendees complete evaluation forms and are asked to comment about proper COI disclosure. Evaluation forms are reviewed by the CME Director, Program Chair(s) and Course Directors after which appropriate corrective action is taken.

BOARD OF DIRECTORS, MEMBERS, OFFICERS, CANDIDATES FOR OFFICE OR COMMITTEES

In order for the Society to further the purpose for which it is organized and to maintain its reputation for excellence, it is important that Society decisions and actions not be influenced unduly by any special interests or individual members. The Society depends upon its members to shape its policies and the actions of organization policy makers must not be inappropriately affected by outside influences. Accordingly, the Board of Directors of the Society has adopted a formal system for disclosure of interests. Society Board of Directors members, officers, candidates for officer positions and committee members must complete and submit a Disclosure of Interest Statement.

1. Members of the ASLMS Board of Directors are required to complete the Disclosure of Interest Statement, annually. Copies of the completed disclosure forms will be included in each Board agenda, posted on the ASLMS website, and available at the ASLMS Central Office upon request.
2. The Disclosure of interests shall include personal interests, interests as director, officer, member, stockholder, shareholder, partner, manager, academic mentor, consultant, employee, researcher, grantee, lobbyist, trustee or beneficiary of any concern and having an immediate family member who holds such an interest in any concern.
3. The disclosure shall list "concerns" which include any corporation, association, joint venture, trust, partnership, limited liability entity, firm, institution, governmental body, endeavor, other entity other than the Society or person.
4. In addition to completing the Disclosure of Interest Statement the discloser has an obligation to advise the Society of any interest of the discloser that is or potentially is in conflict with any interest of the Society as the discloser becomes aware of the conflict of interest or potential conflict of interest.
5. The discloser acknowledges that as a director, officer, candidate for office or committee member of the American Society for Laser Medicine and Surgery, Inc., he/she occupies or seeks a position of trust with a fiduciary duty to act at all times in good faith and with loyalty to the Society.
6. The discloser further acknowledges having received, read and understood the Society's Disclosure of Interest Policy, and that he/she agrees to comply with it.
7. The discloser certifies that, all of the interests as defined in the Policy have been disclosed to the best of his/her knowledge.
8. The Secretary of the Society is charged with the responsibility to monitor potential conflict of interest and bring it to the attention of the Board.
9. All Board Members are expected to verbally disclose conflicts of interest with any pertinent item on the agenda and recuse themselves from discussion and voting, including additional topics that may arise.

Approved by the Board of Directors, November 10, 2015

ASLMS Learners Bill of Rights

The American Society for Laser Medicine and Surgery, Inc. (ASLMS) recognizes that you are a life-long learner who has chosen to engage in continuing medical education to identify or fill a gap in knowledge, skill, or performance. As part of ASLMS' duty to you as a learner, you have the right to expect that your continuing medical education experience with ASLMS includes:

Content that:

- » promotes improvements or quality in health care;
- » is valid, reliable, and accurate;
- » offers balanced presentations that are free of commercial bias for or against a product/service;
- » is vetted through a process that resolves any conflicts of interests of planners, teachers, or authors;
- » is driven and based on learning needs, not commercial interests;
- » addresses the stated objectives or purpose; and
- » is evaluated for its effectiveness in meeting the identified educational need.

A Learning Environment that:

- » supports learners' ability to meet their individual needs;
- » respects and attends to any special needs of the learners;
- » respects the diversity of groups of learners; and
- » is free of promotional, commercial, and/or sales activities.

Disclosure of:

- » relevant financial relationships planners, teachers, and authors have with commercial interests related to the content of the activity; and
- » commercial support (funding or in-kind resources) of the activity.

ePosters

Approximately 20 viewing stations will be located in the Exhibit Hall. Attendees will be able to search and view ePosters by author, title, topic, and/or abstract number. No hard copy posters will be on display. There will be ample time during the lunch hours and breaks for viewing. A maximum of four CME credits will be offered for viewing the ePosters. Please find the ePoster information in the packet included in your conference tote bag.

Each ePoster will include a tab labeled "Questions and Answers". When the conference attendee clicks on the Q&A tab, they will view a running list of questions along with each question's corresponding answer from the author. Additionally, there will be a button labeled "Submit a Question". When the conference attendee clicks this button, they will be provided with a form which has a blank area for them to type and submit their question to the author. The system will update every morning at 6:00 AM local time. All questions and answers from the previous day will be posted to each ePoster. Also, the Q&A log will be viewable in the post-conference online version, but the ability to ask questions will not be available in the post-conference online version.

Following the conference, ePosters will be published on the ASLMS website for the remainder of the calendar year and accessible for ASLMS member viewing.

Looking for More Conference Information?



Don't forget **explore:connect**, our Annual Conference non-CME guide, a companion piece to the Conference Educational Program. This guide goes beyond our educational offerings to provide other important information you need to know to fully experience the conference.

You will find complete information on exhibitors, the exhibit hall map, and other activities taking place in the exhibit hall during the conference, plus details on our speakers and award recipients.

This publication will be an invaluable source of information for you throughout the conference as well as an important takeaway for future reference.

NAME	PAGE #	DISCLOSURE DETAILS
Abad Cesa, Romina	See Supplement	No Disclosures
Abdel Hay, Rania	51	No Disclosures
Abi-Rached, Henry	79	No Disclosures
Adams, Wilson R.	82	No Disclosures
Adatto, Maurice A.	58	Received consulting fees from: Cynosure/Syneron Candela
Admani, Shehla	88	No Disclosures
Agharaf, Natasha	See Supplement	No Disclosures
Aguilar, Guillermo	54	No Disclosures
Aguirre, Oscar	46	Received consulting fees from: Alma Lasers, Inc.; Served on Promotional Speakers Bureau with: Alma Lasers, Inc.
Aimbire, Flavio	100	No Disclosures
Aird, Gregory A.	See Supplement	No Disclosures
Alam, Murad	14, 26, 77	Received grant funding from: ASDS, Brandt, Merz; Received consulting fees from: Amway
Albalkhi, Mohannad	See Supplement	No Disclosures
Alcalay, Menachem	88	No Disclosures
Aldahan, Adam	96	No Disclosures
Alegre, Adrian	11,	No Disclosures
Alexiades, Macrene R.	14, 46, 78, 104	Received grant funding from: Syneron Candela, Lancome, DUSA, DEKA, Alma; Served on advisory board with: Allergan
Alexis, Andrew F.	34	Received grant funding from: Allergan, BiopharmX, Dermira, Novan, Novartis, Rxl; Received honoraria from: Allergan, Galderma, Regeneron, Unilever; Served on advisory board for: Allergan, Galderma, Regeneron, Unilever
Alinsod, Red M.	46, 66	Received equipment from: Thermi, Ellman, Cooper Surgical; Received a discount from: Regen Labs; Received consulting fees from: Thermi, Coloplast; Holds ownership interest with: Caldera Medical; Received royalties from: Thermi, Cooper Surgical, Monarch Medical Products, Thieme Publishing; Have intellectual property rights with: Thermi, Cooper Surgical, Coloplast, Monarch Medical Products; Served on advisory board for: Thermi
Aljekhedab, Fahad	See Supplement	No Disclosures
Allam, Riham	51	No Disclosures
Allison, Ron R.	17, 52, 78, 104	No Disclosures
Almeida Silva, Patricia	92	No Disclosures
Alonso, Hamilton	92	No Disclosures
Alsaidan, Mohammed S.	96	No Disclosures
Alsharkawy, Asmaa	82	No Disclosures
Alsharnoubi, Jehan	61	No Disclosures
Alster, Tina S.	5, 14, 23, 33, 63	Received equipment from: Syneron Candela; Holds ownership interests with: Cearn, Home Skinovations
Altshuler, Gregory	64	Received salary from: IPG
Alvarenga, Leticia	53, 64	No Disclosures
Alvarez Martinez, David	87	No Disclosures
Alvarez, Crysthal	See Supplement	No Disclosures
Alvarez-Barragan, Alejandro	54	No Disclosures
Amann, Philipp	43	No Disclosures
Amaral-Labat, Gisele	92	No Disclosures
Amato, David	97	No Disclosures
Ammon, Tamara	29	No Disclosures
Ancona, Dvora	42	No Disclosures
Anders, Juanita J.	14, 17, 60, 68, 91, 92	Received grant funding from: and CRADA from USUHS and Lite Cure; Lumithera; Received equipment from: B&W Tek, Irradia, LiteCure, Nitto Denko, PhotoThera; Received travel expenses from: Companion Animal LLC, Lite Cure; Received royalties from: Banyon Biomarkers, PhotoThera; Have intellectual property rights with: Henry M Jackson Foundation; Served on advisory board with: Companion Animal LLC, Lite Cure LLC, Lumithera Inc.; Served as officer or director with: ASLMS; OSA
Anderson, Kathy	28	No Disclosures

NAME	PAGE #	DISCLOSURE DETAILS
Anderson, R. Rox	4, 14, 24, 27, 37, 39, 43, 57, 79, 83, 87, 103, 104	Received consulting fees from: Amway, Blossom, Cytrellis Biosystems, Follica, Living Proof, MOE Medical Devices, Next Gen Jane, R2 Dermatology, Seven Oaks, Seventh Sense, Strata Skin Sciences; Holds ownership interests with: Amway, Blossom, Cytrellis Biosystems, Follica, Living Proof, MOE Medical Devices, Next Gen Jane, R2 Dermatology, Seven Oaks, Seventh Sense, Strata Skin Sciences; Have intellectual property rights with: Amway, Blossom, Cytrellis Biosystems, Follica, Living Proof, MOE Medical Devices, Next Gen Jane, R2 Dermatology, Seven Oaks, Seventh Sense, Strata Skin Sciences
Andreetta, Marcello R.	65	No Disclosures
Andreev, Oleg A.	73	Holds ownership interests: pHLIP, Inc.; Have intellectual property rights: pHLIP, Inc.
Andreo, Lucas	See Supplement	Received grant funding from: Coordenação de Aperfeiçoamento de Pessoal de Nível Superior
Angelis, Katia	See Supplement	No Disclosures
Anolik, Robert	See Supplement	No Disclosures
Anvari, Bahman	54, 55	Received grant funding from: National Science Foundation & City of Hope-UC Riverside Biomedical Research Initiative; Holds ownership interests with: Radoptics LLC; Served on advisory board with: ASLMS Board as Biomedical Engineering Representative
Apiou, Gabriela	14, 75	Received travel expenses from: Harvard Catalyst Taxi Transportation; Received honoraria from: Harvard Catalyst Teaching (CME)
Arany, Praveen	68	Received grant funding from: NIH; Philips Research; Received equipment from: QMBI, LightScalpel; Received travel expenses from: Thor Laser, Lumithera; Received salary from: NIH, University of Buffalo; Have intellectual property rights with: Harvard University; Served on advisory board with: Global Photonics Served as officer or director with: ADEA, NAALT, ALD, ASLMS, OSA, SPIE, WALT, AAALAC
Araújo, Loriana de Santana	82, 100	No Disclosures
Arnaut, Ali	99	No Disclosures
Arndt, Kenneth A.	14, 26	Holds ownership interests with: Photomedex
Arnold, Gilles	92	No Disclosures
Arnoldo, Brett	See Supplement	No Disclosures
Ash, Caerwyn	42	No Disclosures
Austen, William G.	See Supplement	No Disclosures
Avram, Marc	14, 38	Received consulting fees from: Restoration Robotics
Avram, Mathew M.	14, 17, 24, 25, 45, 49, 57, 70, 71, 83, 95	Received grant funding from: Zeltiq, Invasix, Allergan; Received research funds from Cutera; Holds ownership interests with: Served as partner for Master of Aesthetics; Received stock options from: Cytrellis, Invasix, Zalea; Have intellectual property rights with: Cytrellis; Served on advisory board with: Scientific Advisory Board for Zeltiq, Cytrellis; Served on Strategic Advisory Board for: Sciton; Served on Editorial Board for: Zalea; Served as Treasurer of: ASDS; Received consulting fees from: Merz Aesthetics
Azizi, Bleron	See Supplement	No Disclosures
Bacigalupi, Robert	40	No Disclosures
Badawi, Ashraf M.	17, 50, 86, 101, 103, 104	Received travel expenses from: IMCAS, Euromedicom, ESLD, EADV, Fotona
Badawi, Manal A.	51	No Disclosures
Bader, Alexandros	88	No Disclosures
Badiavas, Evangelos	43	Holds ownership interests with: Aegle Therapeutics; Have intellectual property rights with: Aegle Therapeutics; Served as officer or director with: Aegle Therapeutics
Bae, Hyoin	85	No Disclosures
Bae, Jung Min	See Supplement	No Disclosures
Bae, Yoon-Soo Cindy	See Supplement	Received consulting fees from: Allergan, Biospecifics, Kythera; Served on advisory board with: Allergan, Medicis
Bailey, John	85	Received consulting fees from: Miliken and Company
Baker, Terrance	14, 17, 44, 91, 92, 104	No Disclosures
Bakus, Abnoeal	58, 99	No Disclosures
Baldado, Melissa	74	No Disclosures
Balu, Mihaela	74, 85	No Disclosures
Bankowski, Richard	77	Served on Industry Advisory Board for: - ASDS; Served as officer or director with: ASLMS
Banzhaf, Christina	43	Received travel expenses from: ASLMS 2016 Travel Grant
Barbosa, Diógenes Soares da Silva	See Supplement	No Disclosures
Barolet, Daniel	61	No Disclosures
Baron, Jens M.	43	No Disclosures

NAME	PAGE #	DISCLOSURE DETAILS
Bass, Lawrence S.	71, 84	Received grant funding from: Cynosure; Received consulting fees from: Cynosure, Endo, and Neothetics; Received travel expenses from: Cynosure; Served on advisory board with: Merz; Served on Promotional Speakers Bureau with: Cynosure
Battle, Jr., Eliot F.	15, 34	Received royalties from: Massachusetts General Hospital
Baumann, Molly	85	No Disclosures
Baxter, David	68	Received grant funding from: New Zealand Breast Cancer Foundation; Received equipment from: LiteCure for clinical trials; Served as officer or director with: National Science Challenge for Aging Well
Bay, Christiane	58, 85	No Disclosures
Beasley, Karen L.	See Supplement	Received honoraria from: Kythera
Beaty, Mark M.	See Supplement	Received travel expenses from: Syneron Candela, Zeltiq; Received honoraria from: Syneron Candela, Zeltiq
Belinello-Souza, Estefani	64	No Disclosures
Belkin, Daniel A.	29, 96	No Disclosures
Belo, Victoria G.	96	No Disclosures
Belotto, Renata	99	No Disclosures
Benvenuti, Federica	60	No Disclosures
Berardo, Clarissa	See Supplement	No Disclosures
Bernstein, Eric F.	5, 15, 23, 24, 66, 67, 70, 84, 94, 96, 97	Received grant funding from: Syneron Candela; Zeltiq; Received a discount from: Syneron Candela, Zeltiq; Received consulting fees from: Syneron Candela; Served on advisory board with: Novoxel, Solta; Syneron Candela; Zeltiq
Betancourt, Aureni	89	No Disclosures
Bhatia, Ashish C.	15, 26, 40, 84	Received consulting fees from: Aclaris, Allergan, Derm Ed Foundation, Derm.md, Galderma, KCI, Merz, Oculus, Sinclair Pharma, Zalea; Received travel expenses from: Allergan, Biomarck, Derm Ed Foundation, Envy, Galderma, Merz, Sinclair Pharma; Received honoraria from: Aclaris, Allergan, Galderma, KCI, Merz Pharma, Sinclair Pharma; Holds ownership interests with: Genzum, Theravant, SimSkin, Biomarck, Derm.md; Served on advisory board with: Allergan, Biomarck, Derm Ed Foundation, Derm.md, Envy, Galderma, Theravant, Sinclair Pharma; Served as officer or director with: Board of Director: Biomarck, Derm.md, Envy Medical, Theravant Corp., American Society of Dermatologic Surgery; Served on Promotional Speakers Bureau with: Allergan, Galderma, Merz Pharma
Bhawalkar, Jayant D.	96, 97	Received travel expenses from: Travel expenses from Candela Corp; Received salary from: Candela Corporation
Biasotto, Matteo	60	No Disclosures
Bidar, Maryam	See Supplement	No Disclosures
Biel, Merrill A.	78	Holds ownership interests with: Aspyrian Therapeutics; Received salary from: Aspyrian Therapeutics; Served as officer or director with: Aspyrian Therapeutics
Bierman, Dina F.	See Supplement	No Disclosures
Biesman, Brian S.	15, 35, 45, 72, 97	Received grant funding from: Allergan, Alma, Cutera, Galderma, Merz, OnLight Sciences Sienna, Suneva, Syneron Candela; Received consulting fees from: Allergan, Cutera, Cytrellis, Galderma, Intraderm, Merz, OnLight Sciences, Revance, Sienna, Syneron Candela, Valeant, Zeltiq; Received honoraria from: Allergan, Cutera, Galderma, Merz, OnLight Sciences, Valeant, Zeltiq; Holds ownership interests with: Cytrellis; Served on advisory board with: Zeltiq, Cytrellis; Served on Promotional Speakers Bureau with: Allergan, Galderma, Merz, Syneron Candela, Valeant, Zeltiq
Birngruber, Reginald	73, 85	No Disclosures
Biron, Julie	See Supplement	No Disclosures
Bis, Beata	50	No Disclosures
Bischof, John	55	Holds ownership interests with: Vigilant Diagnostics, LLC; Have intellectual property rights with: Vigilant Diagnostics, LLC; Served on advisory board with: Vigilant Diagnostics, LLC; Served as officer or director with: Vigilant Diagnostics, LLC
Bizjak-Ogrinc, Urska	89	No Disclosures
Blank, Nina	9, 102	No Disclosures
Bloom, Bradley S.	7, 17, 58, 84, 96, 98, 99, 104	Received grant funding from: Cutera, Cynosure, Focus Medical; Received equipment from: Aerolase, Focus Medical; Received consulting fees from: Merz; Received travel expenses from: Merz, Cutera; Received honoraria from: Cutera, Merz, Solta; Holds ownership interests with: Aerolase; Served on advisory board with: Aerolase; Served as officer or director with: ASLMS; Served on Promotional Speakers Bureau with: Cutera; Aerolase
Bloom, Jason D.	15, 72, 84	Received grant funding from: Zeltiq; Received equipment from: InMode; Received a discount from: ThermaAesthetics; Received consulting fees from: Allergan, Alma Lasers, Galderma, InMode, Merz, Sinclair Pharma, ThermaAesthetics; Received travel expenses from: Allergan, Alma Lasers, Galderma, InMode, Merz, ThermaAesthetics; Received honoraria from: Allergan, Alma Lasers, Galderma, Merz, ThermaAesthetics; Served on advisory board with: Allergan, Galderma, Merz, Sinclair Pharma, ThermaAesthetics; Served on Promotional Speakers Bureau with: Allergan, Alma Lasers, Galderma, Merz, ThermaAesthetics

NAME	PAGE #	DISCLOSURE DETAILS
Boen, Monica	See Supplement	No Disclosures
Boesen, Malene R.	83, 99	No Disclosures
Boixeda, Pablo	See Supplement	No Disclosures
Bolton, Joanna G.	95	No Disclosures
Bomfim, Fernando R.	92	Received travel expenses from: ASLMS Travel Grant;
Bonan, Paolo	87	No Disclosures
Bortoletto, Carolina	See Supplement	No Disclosures
Botchkarev, Vladimir A.	61	Received grant funding from: Amway
Botchkareva, Natalia V.	91	No Disclosures
Bottiroli, Giovanni F.	See Supplement	No Disclosures
Boulware, David	55	Received honoraria from: Biofire; Served on advisory board with: Vigalent Diagnostics
Boutousov, Dmitri	64	Received equipment from: BIOLASE; Received travel expenses from: BIOLASE; Holds ownership interests with: BIOLASE; Received salary from: BIOLASE; Have intellectual property rights with: BIOLASE
Bovo, Júlia	92	No Disclosures
Bowes, Leyda E.	See Supplement	Received grant funding from: Zeltiq Aesthetics
Breunig, Hans Georg	96	No Disclosures
Brah, Tara	88	No Disclosures
Brandi, Hugo	15, 26, 66, 67, 77, 95, 96	No Disclosures
Brauer, Jeremy A.	36	Received honoraria from: Cynosure; Served on advisory board with: Cynosure; Miramar
Braun, Martin E.	42	Received equipment from: Fotona, Lutronic; Received a discount from: Allergan, Galderma, Merz, Fotona, Lutronic; Received consulting fees from: Allergan, Galderma, Merz; Received travel expenses from: Allergan, Galderma, Merz; Received honoraria from: Allergan, Galderma, Merz; Served on advisory board with: Allergan, Galderma, Merz
Brito, Auriléia A.	100	No Disclosures
Broderick, Gregory	82	Received consulting fees from: AbbVie
Brosens, Marc	60	No Disclosures
Brown, James J.	29	No Disclosures
Brugnera, Aldo	See Supplement	Received consulting fees: Camilo Castelo Branco University; Received travel expenses from: Camilo Castelo Branco University; Received salary from: Camilo Castelo Branco University
Buchpiguel, Carlos A.	61	No Disclosures
Buckley, Sara	See Supplement	No Disclosures
Budimir, Ana	See Supplement	No Disclosures
Bueno, Cleuber Rodrigo de Souza	93	No Disclosures
Bulens, Paul	60, 102	No Disclosures
Burns, A. Jay	31, 36	Received grant funding from: Zeltiq, Cytrelis; Received a discount from: Zimmer, Zeltiq, Merz (Cellfina); Served on Advisory Board from: Sciton, Zeltiq
Burns, Joshua	54, 55	No Disclosures
Busch, Theresa M.	52	No Disclosures
Bussadori, Sandra K.	53, 65, 82, 100	No Disclosures
Bussani, Rossana	60	No Disclosures
Bussé, Lore	102	No Disclosures
Cabral Oliveira, Pedro Henrique	65	No Disclosures
Caine, Paul	99	No Disclosures
Calderon, Megan P.	See Supplement	No Disclosures
Callaghan, Daniel	See Supplement	No Disclosures
Camacho-López, Santiago	See Supplement	No Disclosures
Camargo, Barbara	99	No Disclosures
Campanali, Tammie	57	No Disclosures
Canjau, Silvana	64	No Disclosures
Capiz, Guada S.	96	No Disclosures

NAME	PAGE #	DISCLOSURE DETAILS
Capizzi, Peter J.	102	No Disclosures
Caproni, Larissa	See Supplement	No Disclosures
Carneiro, Paulo C.	61	No Disclosures
Carneiro de Oliveira Junior, Manoel	See Supplement	No Disclosures
Caronni, Nicoletta	60	No Disclosures
Carrascosa Jr, Jurandir	See Supplement	No Disclosures
Cartier, Hugues	102	Received honoraria from: Galderma, Ipsen, Evolus, Neutrogena
Carucci, John	57	No Disclosures
Carvalho, Paulo	100	No Disclosures
Carvalho, Rodrigo L.	92, 93	No Disclosures
Casanova, Dominique	61	Received travel expenses from: Urgo Medical; Received honoraria from: Urgo Medical; Served on advisory board with: Urgo Medical; Served on Promotional Speakers Bureau with: Urgo Medical
Cassoni, Alessandra	See Supplement	No Disclosures
Castellano-Pellicena, Irene	10, 61	No Disclosures
Celli, Jonathan	79	No Disclosures
Cenedeze, Marcos Antonio	92	No Disclosures
Censabella, Sandrine	60, 102	Received grant funding from: Flen Pharma NV, Kontich, Belgium
Cerri, Giovanni Guido	61	No Disclosures
Cervantes, Jessica	See Supplement	No Disclosures
Chammas, Maria Cristina	See Supplement	No Disclosures
Chan, Henry H.	15, 34, 59, 96, 97	Received equipment from: Cynosure, Lumenis-Israel, Quanta System-Italy, Venus Concept; Received consulting fees from: Access Business Group; Cynosure; Received honoraria from: Merz Asia; Cutera; Syneron Candela; Holds ownership interests with: Basis Medical Technologies-Canada, Cytrelis Biosystems, Lumenis-Israel, Syneron Candela; Received royalties from: McGraw-Hill Companies; Have intellectual property rights with: Blossom Innovation; Served on advisory board with: Blossom Innovation; Syneron Candela
Chan, Warren	55	Holds ownership interests with: Vigilant
Chang, Chang Cheng	55	No Disclosures
Chapas, Anne M.	26, 29, 78	Received grant funding from: DUSA, Myosience, Restorsea, Watson; Received a discount from: Syneron Candela; Received travel expenses from: Restorea; Served on advisory board with: Valeant; Served on Promotional Speakers Bureau with: Allergan, DUSA, Medicis, Syneron Candela
Chapman, Lance	99	No Disclosures
Chasin, Mitchell C.	See Supplement	No Disclosures
Chavantes, M. Cristina	17, 60, 61, 65, 91, 92, 93, 100, 104	Received salary from: University of Nove de Julho; Choi, Bernard
Chen, Bin	See Supplement	No Disclosures
Chen, Bo	6, 8, 49	Received travel expenses from: Cynosure, Inc; Received salary from: Cynosure, Inc
Chen, Fuyao	82	No Disclosures
Chen, Hao	91	No Disclosures
Chen, Min-Ling	55	No Disclosures
Cheon, Young Woo	See Supplement	No Disclosures
Cherubini, Giulio	62	No Disclosures
Chevres Fernandez, Lee Roger	55	No Disclosures
Chilukuri, Suneel	See Supplement	Served on Promotional Speakers Bureau with: Allergan, BTL Aesthetics, Cynosure, Galderma, PCA Skin, Skin Medica, Suneva
Choi, Bernard	3, 7, 14, 15, 49, 55, 74, 75, 81, 104	Received grant funding from: Air Force Office of Scientific Research, National Institutes of Health; Received honoraria from: INAOE, Puebla, Mexico; Holds ownership interests with: National Instruments; Received salary from: University of California Irvine
Choi, Changyong	See Supplement	No Disclosures
Chung, Martin MH	59, 97	No Disclosures
Claes, Stefan	102	No Disclosures
Clark, Audra	See Supplement	No Disclosures

NAME	PAGE #	DISCLOSURE DETAILS
Claudio Suzuki, Luiz	See Supplement	No Disclosures
Cohen, Joel L.	15, 35, 72, 104	Received consulting fees from: Allergan, Galderma, Merz, Sciton, Lutronic; Received honoraria from: Allergan, Galderma, Merz, Sciton, Lutronic; Served on advisory board with: Allergan, Galderma, Merz, Sciton, Lutronic
Coleman, William	84	No Disclosures
Coleman, W. Patrick	84	Received travel expenses from: Syneron Candela; Received honoraria from: Syneron Candela
Connolly, Karen L.	83, 98	No Disclosures
Cormack, Greg	61	No Disclosures
Corradini, Katherine M.	29	Received travel expenses from: SkinMedica/Allergan Received salary from: SkinMedica/Allergan, MERZ/Xeomin
Cortez, Breno H.	See Supplement	No Disclosures
Creusot, Muriel	50	No Disclosures
Croce, Anna C.	See Supplement	No Disclosures
Croix, Jennifer	78	Received consulting fees from: Merz Xeomin Event
Crouzet, Christian	55	No Disclosures
Cruz, Mayara Luzia Lopes	See Supplement	No Disclosures
Cuckov, Filip	79	No Disclosures
Curcio, Natalie M.	28	Received equipment from: InMode; Received consulting fees from: Suneva; Holds ownership interests with: InMode
da Collina, Gabriela A.	53	No Disclosures
da Costa Palacio, Paulo R.	See Supplement	No Disclosures
da Palma, Renata K.	92	No Disclosures
da Silva, Fernanda C.	See Supplement	No Disclosures
Dalmaso, Rachel M.	92	No Disclosures
Danish Shabbar	See Supplement	No Disclosures
Davis, Stephen	43	No Disclosures
Davoodzadeh, Nami	See Supplement	No Disclosures
de Barros Ferraz, Arthur	See Supplement	No Disclosures
de Pretto, Lucas	64	No Disclosures
de Souza Ferreira, Kelly Cristina	See Supplement	No Disclosures
de Souza, Erika H.	See Supplement	No Disclosures
de Vito Moraes, Andre Guaraci	65	No Disclosures
Deana, Alessandro	See Supplement	No Disclosures
Deguará, Cheryl	37	Received consulting fees from: Lutronic; Received salary from: Cutera
Del Pozo, Jesus	See Supplement	No Disclosures
Deleporte, Pascal	79	No Disclosures
Desai, Shraddha	26	No Disclosures
Desai, Shrikar R.	92	No Disclosures
Di Lenarda, Roberto	60	No Disclosures
Di Pasqua, Laura Guiseppina	See Supplement	No Disclosures
Dias, Alana	100	No Disclosures
DiBernardo, Barry E.	56	Received grant funding from: Cynosure, Thermi, Nutrafol, Defanage; Received consulting fees from: Thermi, Cynosure, Vision Medical, XMedical; Received travel expenses from: Thermi, Cynosure, Vision Medical, Cynosure, Merz, Thermi, xMedical; Holds ownership interests with: Cynosure Public Stock; Served on advisory board with: Thermi, Cynosure, Merz; Served on Promotional Speakers Bureau with: Thermi, Cynosure
DiBernardo, Gabriella	56	Received honoraria from: Thermi Aesthetics, Syneron Candela, Allergan, Merz; Served on advisory board with: Thermi Aesthetics, Syneron Candela, Merz; Served on Promotional Speakers Bureau with: Allergan, Syneron Candela
Diehl, Nancy	82	No Disclosures
Dierickx, Christine C.	15, 24, 25, 36, 58	Received equipment from: loan of equipment; Served on advisory board with: Miradry
DiGiorgio, Catherine M.	57, 83	No Disclosures

NAME	PAGE #	DISCLOSURE DETAILS
Dinh, Phi	79, 80	No Disclosures
Dobbs, Thomas	99	No Disclosures
Dodd, Erin M.	61	No Disclosures
Doherty, Sean T.	84	Received equipment from: Cynosure; Served on Promotional Speakers Bureau with: Allergan
Dong, Ashley M.	79, 80	No Disclosures
Dong, Jing	75	No Disclosures
Dong, Yajie	91	No Disclosures
Dover, Jeffrey S.	7, 15, 26, 33, 40, 48, 55, 66, 84, 98	Received grant funding from: Allergan, Cutera, Cynosure, Lumenis, Merz, Revance, Sebacia, Shaser, Solta, Suneva, Syneron Candela, Valeant, Zeltiq; Strathsby Crown - Evolus, Terakine, Sienna; Received equipment from: Cynosure, Lumenis, Syneron Candela; Received consulting fees from: Cynosure, Solta, Valeant, Zeltiq; Received honoraria from: Allergan, Cutera, Cynosure, Revance, Solta, Syneron Candela, Topokine, Valeant, Zeltiq; Holds ownership interests with: Controversies and Conversations in Laser and Cosmetic Surgery Advanced Symposium; Shaser; Received royalties from: CVS, Elsevier; Have intellectual property rights with: Shaser; Served on advisory board with: Allergan, Cutera, Cynosure, Kythera, Lumenis, Revance, Shaser, Solta, Suneva, Topokine, Valeant, Zeltiq; Served as series editor of: Procedures in Cosmetic Dermatology published by Elsevier; Served as officer or director with: Controversies and Conversations in Laser and Cosmetic Surgery Advanced Symposium
Drazila, Iwona	29	No Disclosures
Drewes, Steffen	50	No Disclosures
Duarte, Ivone	93	No Disclosures
Dubois, Magali	See Supplement	No Disclosures
Dukic, Predrag	See Supplement	No Disclosures
Duma, Virgil	64	No Disclosures
Dupont, Clement	79	No Disclosures
Durkin, Anthony J.	55, 74	No Disclosures
Eber, Ariel E.	58	No Disclosures
Eichenfield, Lawrence F.	27	No Disclosures
Elfatairy, Kareem	86	No Disclosures
Elkin, Gali	See Supplement	Received salary from: ENDYMED
Enamandram, Monica	98, 99	No Disclosures
Erlendsson, Andres M.	17, 48, 52, 78, 85, 104	No Disclosures
Esmat, Samia M.	51	No Disclosures
Esquisatto, Marcelo	92	No Disclosures
Estrada, Arnold	73	No Disclosures
Eun, Sung Hye	See Supplement	No Disclosures
Evans, Conor L.	73	No Disclosures
Evers, Michael	73	No Disclosures
Fabi, Sabrina G.	See Supplement	Received consulting fees from: Allergan, Galderma, Merz, Thermi; Received honoraria from: Allergan, Galderma, Merz, Thermi, Alastin; Served on advisory board with: Allergan, Merz, Galderma, Thermi, Alastin, Sinclair; Served on Promotional Speakers Bureau with: Allergan, Merz, Galderma
Fang, Lin	See Supplement	No Disclosures
Fang, Qiyin	See Supplement	No Disclosures
Fang, Yanyan	79	No Disclosures
Farah, Maya	See Supplement	No Disclosures
Farah, Ronda	61	Holds ownership interests with: Pfizer, Gilead
Farshidi, Dina	See Supplement	No Disclosures
Fatima Teixeira Silva, Daniela	65	No Disclosures
Feliciano, Regiane	100	No Disclosures
Felizatti, Airton I.	92	No Disclosures
Felten, Richard P.	28	No Disclosures
Feng, Xin	73	No Disclosures
Feng, Xu	82	No Disclosures

NAME	PAGE #	DISCLOSURE DETAILS
Fenniche, Samy	50	No Disclosures
Fernandes, Kristianne P.	65, 82, 100	No Disclosures
Ferrari, Adriana Rios Mafra	65	No Disclosures
Ferreira, Rita C.	See Supplement	No Disclosures
Ferrigno, Andrea	See Supplement	No Disclosures
Fietkau, Katharina	43	No Disclosures
Filson, Christopher	86	No Disclosures
Fish, Joel	See Supplement	No Disclosures
Flores, Antonio	See Supplement	No Disclosures
Fornaini, Carlo	53	No Disclosures
Fournier, Nathalie	See Supplement	Received equipment from: Calor, Johnson & Johnson, Merz, Novoxel; Received consulting fees from: Almirall, Johnson & Johnson; Holds ownership interests with: Novoxel; Served on Advisory Board for: Almirall, Johnson & Johnson, Calor, Novoxel
Francis, Nathan	See Supplement	No Disclosures
Franco, Walfre	17, 42, 43, 54, 55, 73, 81, 104	Holds ownership interests with: SevenOaks; Received royalties from: SevenOaks; Have intellectual property rights with: SevenOaks
Franks, Linda K.	66	Received consulting fees from: Allergan, Anterios; Received honoraria from: Allergan, Anterios; Have intellectual property rights with: Allergan, Anterios
Freitas, Anderson	64	No Disclosures
Friedman, Paul M.	15, 24, 34, 96	Received grant funding from: Solta; Served on advisory board with: Allergan, Sienna, Aclaris Therapeutics; Served on Promotional Speakers Bureau with: Allergan
Friedmann, Daniel P.	15, 69, 77	Received grant funding from: Zeltiq Aesthetics; Received equipment from: Lumenis Ltd.; Received consulting fees from: Allergan; Merz North America; Lumenis Ltd.; Received travel expenses from: Allergan; Merz North America; Lumenis Ltd; Stratapharma; Received honoraria from: Allergan; Merz North America; Lumenis Ltd.; Served on advisory board with: Aclaris Therapeutics; Served on Promotional Speakers Bureau with: Allergan; Merz North America
Friedrich, Andreas	50	No Disclosures
Fuchs, Christine	See Supplement	No Disclosures
Fujimoto, Takahiro	54	No Disclosures
Gabric, Dragana	65	No Disclosures
Galiano, Robert	See Supplement	Received grant funding from: Smith & Nephew, Musculoskeletal Transplant Foundation; Received consulting fees from: Smith & Nephew, Musculoskeletal Transplant Foundation; Served on Promotional Speakers Bureau with: Smith & Nephew
Gamal Eldin, Amina A.	51	No Disclosures
Gammelgaard, Bente	83, 99	No Disclosures
Gan, Huihui	97	No Disclosures
Gandhi, Rishi	See Supplement	No Disclosures
Garcia, Eugenio	65	No Disclosures
Garcia, Joao Vitor C.	See Supplement	No Disclosures
Garcia, Martin	89	Received consulting fees from: Syneron Candela
Garden, Benjamin	99	No Disclosures
Garden, Jerome M.	58, 99	Received grant funding from: Syneron Candela; Received equipment from: Cynosure, Syneron Candela; Received a discount from: Cutera
Gareau, Daniel S.	57	No Disclosures
Gaspar, Adrian	6, 10, 46, 88	Received honoraria from: ASLMS
Gaviria P., Jorge E.	89	Received equipment from: G-Runner, Fotona
Gawdat, Heba	51	No Disclosures
Geddes, Elizabeth	97	No Disclosures
George, Rosalyn	97	No Disclosures
Geronemus, Roy G.	15, 29, 36, 58, 66, 67, 95, 96	Holds ownership interests with: Cytrelis, OnLight Sciences, Zeltiq; Served on advisory board with: Cynosure, Syneron Candela, Valeant/Allergan, Zeltiq; Served as investigator for: Cutera, Cynosure, Cytrelis, Galderma, Kerastem, Kythera, Merz, Miramar, Neothetics, New York Stem Cell Foundation, Suneva, Syneron Candela, T.A. Sciences, Valeant/Allergan, Zeltiq
Giacca, Mauro	60	No Disclosures

NAME	PAGE #	DISCLOSURE DETAILS
Gobbo, Margherita	60	No Disclosures
Godine, Richard L.	15, 17, 44	Received equipment from: Spectra Vet, Multi Radiance; Received a discount from: Thor
Godoy-Miranda, Bianca	64	No Disclosures
Gold, Michael H.	15, 32, 58	Received grant funding from: Sunvea, Invasix, EndyMed, Merz, Allergan, Alma, and Galderma; Received honoraria from: Suneva, EndyMed, Syneron Candela, Alma Lasers, Invasix, SkinCeuticals, Merz, Aerolase, Aqua, Allergan, Galderma, DefanAge, SinClair Pharm, Sente, Thermi, Lumenis and Zimmer
Golda, Nicholas J.	98	Received grant funding from: Missouri Fast Track Program Grant; ASLMS, A. Ward Ford Memorial Institute Grant, Covidien; Have intellectual property rights with: Patent 14/730,845 issued
Goldberg, David J.	15, 45, 66, 67, 71, 84	Received grant funding from: Cutera, Focus, Sebacia, Sienna, Allergan, Galderma, Chroma, Foamix, Syneron Candela, InMode; Received consulting fees from: Almirall, J&J, ThermiAesthetics, Merz; Received honoraria from: Cutera, InMode, Endymed, Thermi; Served on advisory board with: J&J, Thermi, Merz, Galderma, Almirall; Served as officer or director with: ASLMS; Served on Promotional Speakers Bureau with: Cutera, Merz, InMode, Endymed
Goldberg, Gerald N.	8, 57	Received a discount from: Cutera, DEKA; Received consulting fees from: Cutera, DEKA, Sciton; Received honoraria from: Cutera, DEKA; Served on Promotional Speakers Bureau with: Cutera, DEKA
Goldman, Mitchel P.	36, 58, 66, 69, 79, 84, 99	Received grant funding from: Merz, Solta, Syneron Candela; Received a discount from: Lumenis, Merz, Solta, Syneron Candela; Received consulting fees from: Lumenis; Received travel expenses from: Lumenis; Received honoraria from: Lumenis
Goldstein, Rachel L.	See Supplement	No Disclosures
Gollnick, Sandra	52	Received consulting fees from: Concordia/Pinnacle
Gomes, Mariana T.	See Supplement	No Disclosures
Goncalves, Jaqueline	92	No Disclosures
Goncalves, Luis R.	93	No Disclosures
Goncalves-Santos, Tawany	100	No Disclosures
Gonzalez-Suarez, Ana	82	No Disclosures
Green, Courtney	97	No Disclosures
Green, Jeremy B.	15, 35, 59	Received grant funding from: Allergan, Alphaeon, Cutera, Kythera, Merz, Neothetics, Revance, Valeant; Served on advisory board with: Allergan, Galderma, Lutronic, Merz, Valeant; Served on Promotional Speakers Bureau with: Allergan, Cutera, Kythera, Lutronic, Merz
Grossman, Melanie C.	8, 76	Received royalties from: Mass Gen Hospital; Have intellectual property rights with: Mass Gen Hospital
Grundfest, Warren S.	See Supplement	Received grant funding from: National Eye Institute, National Cancer Institute, National Institute for Biomedical Imaging and Bioengineering (all branches of NIH), NIH Center for Scientific Review, NCI, State of California Tobacco Related Disease Research Program, Pacific Institute; Received equipment from: Equipment goes to UCLA laboratory; Have intellectual property rights with: All intellectual property is handled by UCLA; Served on advisory board with: North Carolina State University, Arizona State University, University of California, Riverside
Gu, Jeffrey T.	See Supplement	No Disclosures
Guedes, Guelton H.	99	No Disclosures
Guerette, Nathan L.	15, 46, 66, 89	Received consulting fees from: Sciton; Received travel expenses from: Sciton; Served on Promotional Speakers Bureau with: Sciton
Guerra, Cecilia M.	See Supplement	No Disclosures
Guo, Shuli	See Supplement	No Disclosures
Gupta, Aditya K.	30	Received grant funding from: Valeant Canada, Moberg Pharma; Received consulting fees from: Moberg Pharma; Received travel expenses from: Moberg Pharma, Valeant Canada; Received honoraria from: Valeant Canada; Served on advisory board with: Valeant Canada
Ha, Linh	85	No Disclosures
Habenicht, Daniel	See Supplement	No Disclosures
Haedersdal, Merete	15, 17, 24, 25, 36, 37, 42, 43, 47, 48, 52, 58, 78, 83, 85, 99, 104	Received grant funding from: Galderma, Leo Pharma, Procter & Gamble, Sciton, Sebacia; Received equipment from: Ellipse, GME (German Medical Engineering), Sciton, Syneron Candela
Halstead, Michael	See Supplement	No Disclosures
Halvorson, Christian	See Supplement	No Disclosures
Hamadah, Omar	See Supplement	No Disclosures
Hamilton, Heather	26	No Disclosures
Hamzavi, Iltefat	99	Received grant funding from: AbbVie, Adelphi Values, Allergan, Estee Lauder, Ferndale Laboratories, all grants paid to institution; Received equipment from: Johnson and Johnson; Received consulting fees from: Ferndale Laboratories, Johnson and Johnson (paid to institution); Received honoraria from: National Psoriasis Foundation, SAWC; Served on advisory board with: AbbVie (non-compensated), Ferndale Laboratories

NAME	PAGE #	DISCLOSURE DETAILS
Han, Lina	See Supplement	No Disclosures
Han, Tae Young	See Supplement	No Disclosures
Handler, Marc Z.	84	No Disclosures
Hansen, Steen Honore	43	No Disclosures
Hargreaves, Eric L.	See Supplement	No Disclosures
Harris, Todd	58	Received travel expenses from: Sienna Biopharmaceuticals; Holds ownership interests with: Sienna Biopharmaceuticals; Received salary from: Sienna Biopharmaceuticals; Have intellectual property rights with: Sienna Biopharmaceuticals; Served as officer or director with: Sienna Biopharmaceuticals
Harth, Yoram	See Supplement	No Disclosures
Hasan, Tayyaba	6, 52, 79, 81, 82	Received Honoraria from: Pinnacle Biologics, Inc., Washington University School of Medicine; Served on Advisory Board for: PDT Pancreatic Cancer Advisory Board, Multiple Melanoma Nanotherapy External Advisory Board
Hashem, Amira R.	See Supplement	No Disclosures
He, Juan	91	No Disclosures
Hegazy, Rehab	51	No Disclosures
Heidari, Andrew E.	42, 65	No Disclosures
Heise, Ruth	43	No Disclosures
Hellings, Niels	60, 102	No Disclosures
Hernandez, Shannon L.	10, 29, 78	Received salary from: Merz (\$200 received for a PR event)
Herranz, David	82	Received salary from: Medlumics
Hibler, Brian P.	9, 83, 98	No Disclosures
Ho, Derek	61	No Disclosures
Ho, Jessica	65	No Disclosures
Hoang, Minh	87	No Disclosures
Hoffmann, Klaus	41, 84	Received grant funding from: Cutera, Cynosure; Received equipment from: BTL, Lumenis, Cutera, Cynosure, Zeltiq; Received travel expenses from: Cutera, Cynosure; Received honoraria from: BTL, Lumenis, Cutera, Cynosure, Zeltiq
Hofling, Danilo B.	61	No Disclosures
Hofmann, Maja	See Supplement	No Disclosures
Holm, Jesper Gronlund	See Supplement	No Disclosures
Holvoet, Lien	60	No Disclosures
Honeybrook, Adam L.	See Supplement	No Disclosures
Hoopman, John E.	28	No Disclosures
Horlana, Anna Carolina R.	65	No Disclosures
Hoss, Erika	See Supplement	No Disclosures
Hsu, Sarah H.	59, 84	No Disclosures
Hsu, Vincent	96	No Disclosures
Hu, Shaojuan	92	No Disclosures
Hu, Xiaoming	See Supplement	No Disclosures
Huang, Luping	See Supplement	No Disclosures
Huang, Yao-Kuang	55	No Disclosures
Huerter, Christopher	See Supplement	No Disclosures
Huettmann, Gereon	74	No Disclosures
Humphrey, Shannon	84	Received consulting fees from: Allergan, Galderma, GSK, Kythera, Loreal, Merz, Revance, Sienna Biopharm; Served as an investigator for: Allergan, Cutanea, Evolus, Kythera, Revance, Zeltiq; Served on Promotional Speakers Bureau with: Allergan, Kythera, Loreal
Hunt, Heather K.	98	Received grant funding from: National Science Foundation; Received a discount from: Academic discounts through Thorlabs, Optosigma, Newport, Fisher, etc; Received travel expenses from: National Science Foundation, University of Missouri; Received salary from: University of Missouri
Huth, Laura	43	No Disclosures
Huth, Sebastian	43	No Disclosures
Ibrahim, Omer	97	No Disclosures
Imran, Jonathan	See Supplement	No Disclosures

NAME	PAGE #	DISCLOSURE DETAILS
Isseroff, R. Rivkah	See Supplement	Received grant funding from: California Institute Regenerative Medicine; Received travel expenses from: Wound Healing Society; Received honoraria from: NIH grant review; Received salary from: University of California, VA
Jagdeo, Jared R.	61	Received grant funding from: DUSA; Received consulting fees from: Zeltiq; Received travel expenses from: Dermira; Received honoraria from: SkinFix, P & G, PhotoMedex, Nutrafol, Sente; Served on advisory board with: Galderma, L'Oreal, Dermira; Served on Promotional Speakers Bureau with: DUSA
Jalian, H. Ray	15, 45	Received consulting fees from: Zeltiq; Holds ownership interests with: Accure Acne; Served on advisory board with: Accure Acne
Jamshed, Saad	61	No Disclosures
Janfelt, Christian	43	No Disclosures
Jennings, John L.	See Supplement	Received equipment from: Cynosure
Jensen, James D.	97	Received consulting fees from: Miramar Labs
Jeon, Hana	29, 96	No Disclosures
Jeong, Seo-won	See Supplement	No Disclosures
Jezersek, Matija	43	No Disclosures
Jia, Wangcun	55	No Disclosures
Jones, Isabela T.	79, 84, 95, 99	No Disclosures
Jo, Hyunmu	See Supplement	No Disclosures
Joosens, Eric	60	Received travel expenses from: Sanofi-Aventis, Roche; Served on advisory board with: Leofarma
Kamenakis, Marina	37	No Disclosures
Kaminer, Michael S.	15, 66, 97	Received consulting fees from: Allergan, Zeltiq, Miramar, Cutera, L'Oreal; Served on advisory board with: Miramar, Zeltiq, Cytrelis
Kannan, Swati	See Supplement	No Disclosures
Kappel, Stefani	24	Received equipment from: ThermiRF, Merz, Allergan, Silhouette Instalift; Received consulting fees from: Merz; Received travel expenses from: Merz; Received honoraria from: Merz; Received salary from: ZO Skin Health; Served on advisory board with: Merz; Served on Promotional Speakers Bureau with: Allergan, Merz, ThermiRF, ZO Skin Health
Karavan, Mahsa	See Supplement	No Disclosures
Karmisholt, Katrine Elisabeth	85	Received travel expenses from: Clinical training by Sciton
Karram, Mickey M.	17, 88	Received grant funding from: Cynosure; Received consulting fees from: Cynosure; Received travel expenses from: Cynosure; Received honoraria from: Cynosure; Served on Advisory Board: Cynosure; Served on Promotional Speakers Bureau: Cynosure;
Kato, Ilka	53	No Disclosures
Katta, Nitesh	73	No Disclosures
Katz, Bruce E.	71, 84, 89	Received grant funding from: Cosmeceutec, Cynosure, Kythera, Neothetics; Received consulting fees from: DEKA Allergan, Merz, Galderma; Received honoraria from: Syneron Candela; Served on advisory board with: Allergan, Aliva, Merz, Syneron Candela, Valeant; Served on Promotional Speakers Bureau with: Cynosure
Keller, Emily C.	26	No Disclosures
Kelly, Charis	See Supplement	No Disclosures
Kelly, Kristen M.	3, 14, 16, 24, 27, 42, 49, 85, 98, 100	Received grant funding from: National Institutes of Health, Sturge Weber Foundation; Received equipment from: Light Sciences Oncology, Syneron Candela, Thermi and Solta; Received consulting fees from: MundiPharma, Pierre Fabre
Kenkel, Jeffrey M.	See Supplement	Received honoraria from: Allergan
Khan, Amjad	79	No Disclosures
Khatri, Khalil A.	See Supplement	No Disclosures
Khetarpal, Shilpi	26	No Disclosures
Kilmer, Suzanne L.	5, 16, 23, 31, 35, 36, 45, 49, 66, 94	Received grant funding from: Allergan, Cynosure, Cytrelis, Galderma, Lumenis, Merz, Miramar, Sciton, Sebacia, Sienna Labs, Solta/Valeant, Zarin, Zeltiq; Received consulting fees from: Allergan, Galderma; Received travel expenses from: Solta, Zeltiq; Served on advisory board with: Cytrelis, Galderma, Lumenis, Merz, Miramar, Sciton, Sebacia, Sienna Labs, Syneron Candela, Zarin, Zeltiq, Zift
Kim, Gyong Moon	See Supplement	No Disclosures
Kim, Jongsic	See Supplement	No Disclosures
Kim, Miri	See Supplement	No Disclosures
Kleyn, Aaron	See Supplement	No Disclosures
Kohen, Roni	74	No Disclosures

NAME	PAGE #	DISCLOSURE DETAILS
Konig, Karsten	42, 85	No Disclosures
Kono, Taro	34, 59, 96, 97	Received equipment from: Cynosure, Syneron Candela; Served on advisory board with: Syneron Candela
Kositratna, Garuna	74	Received grant funding from: Lumenis, Inc.; Have intellectual property rights with: Method and Apparatus for Dermatological Treatment, application number: CA2881672
Kothare, Amogh	58, 59	No Disclosures
Kraeva, Ekaterina	61	No Disclosures
Krakowski, Andrew C.	16, 27, 39, 104	No Disclosures
Kruter, Laura	26	No Disclosures
Kuan, Edward C.	See Supplement	Received travel expenses from: ASLMS; Served on advisory board with: ASLMS
Kuo, Karen	See Supplement	No Disclosures
Lafaye, Severine	See Supplement	No Disclosures
Laffitte, Emmanuel	87	No Disclosures
Lambrichts, Ivo	60, 102	No Disclosures
Lanzafame, Raymond J.	16, 28, 61, 68, 91	Received grant funding from: Apria Science; Received equipment from: Apria Science, ImArcSys LiteCure; Received consulting fees from: Apria Science, Coleman Research Group, GLG Councils, Leerink Swan, Merz; Received travel expenses from: ASLMS, Society of Laparoendoscopic Surgeons (i.e. Reimbursement for Board of Directors), course faculty, and/or CME Director activities at programs for both ASLMS and SLS; Have intellectual property rights with: Biomedical Gateway LLC, Conversion Energy Enterprises, ImArcSys, New Skin Therapies LLC; Served as officer or director with: ASLMS, Council of the New York Chapter of the American College of Surgeons, House of Delegates of Medical Society of the State of New York, Monroe County Medical Society, North American Association for Laser Therapy, Society of Laparoendoscopic Surgeons
Laubach, Hans-Joachim	17, 50, 86, 87, 101, 102, 103, 104	No Disclosures
Leal, Cintia R.	53, 64	No Disclosures
Lecomte, Fabienne	79	No Disclosures
Ledon, Jen	96	No Disclosures
Lee, Erica H.	83, 98, 102	No Disclosures
Lee, Hanna	See Supplement	No Disclosures
Lee, Ji Hae	See Supplement	No Disclosures
Lee, TaeBum	See Supplement	No Disclosures
Lee Yongsoo	85	Received honoraria from: Antoni de Gimbernat International Prize; Have intellectual property rights with: Korean Patent No. 10-1015881 'Scar and Skin Lesion Treatment Systems and Methods Utilizing Lasers.'; Served as officer or director with: Co-CEO, Oh & Lee Medical Robot, Inc.
Leggett, Cadman	75	Received equipment from: NinePoint Medical research equipment
Leite, Carolina	64	No Disclosures
Lentsch, Griffin	74, 85	No Disclosures
Lenz e Silva, Guilherme FB	92	No Disclosures
Leroy, Henri-Arthur	79	No Disclosures
Lertsakdadet, Ben	55	No Disclosures
Levin, Yakir	76	Received grant funding from: ASDS
Lewis, William	10, 55, 81	No Disclosures
Li, Chin-Shang	61	No Disclosures
Li, Daniel	See Supplement	No Disclosures
Li, Dong	See Supplement	No Disclosures
Li, Jhe-Ruei	55	No Disclosures
Ligeiro-Oliveria, Ana Paula	100	No Disclosures
Lim, Jeongsoo	85	No Disclosures
Lim, Won Bong	60	No Disclosures
Lima, Tairine	64	No Disclosures
Lin, Jessica	42	No Disclosures
Lin, Lynlee	43	No Disclosures
Lin, Tong	97	No Disclosures
Lipovsky, Anat	61	No Disclosures

NAME	PAGE #	DISCLOSURE DETAILS
Lipps, Kirsten	See Supplement	No Disclosures
Liu, Hui	10, 79	No Disclosures
Liu, Timon Cheng-Yi	92	No Disclosures
Lizzul, Paul F.	58	Received salary from: Employee and Stock Ownership in Sienna Biopharmaceuticals
Logan, Richard	99	No Disclosures
Lomholt, Hans B.	58	No Disclosures
Longo, Diego	62	Received travel expenses from: ASLMS
Longo, Leonardo	61, 62	Received travel expenses from: NESAs (New European Surgery Academy), Poland Society of Aesthetic Medicine, Ukrainian Society of Aesthetic Medicine and Plastic Surgery
Lopes-Martins, Rodrigo AB	92	No Disclosures
Lu, Zhong	97	No Disclosures
Lubart, Rachel	61	No Disclosures
Lukac, Matjaz	43	Received salary from: Fotona
Lukanovic, Adolf	89	No Disclosures
Luna Palacios, Yryx Y.	See Supplement	No Disclosures
Lupin, Mark	97	No Disclosures
Luque, Carlos Daniel Sergio	88	No Disclosures
Luyten, Daisy	60	No Disclosures
Mac, Jenny	54	Received grant funding from: ASLMS; Received travel expenses from: UCR GSA Travel Grant, UCR Biochemistry Wedding Award, ASLMS; Received salary from: being a Graduate Student Researcher
MacGregor, Jennifer L.	26, 29, 40	Received consulting fees from: Allergan
Madni, Tarik	See Supplement	No Disclosures
Maes, Annelies	60, 102	No Disclosures
Maestri, Sandra	88	No Disclosures
Mafrá de Lima, Flavia	92	No Disclosures
Magid, Kenneth	64	Received equipment from: Biolase/IPG; Received consulting fees from: Biolase/ IPG; Received salary from: Biolase/IPG; Served on advisory board with: Biolase/IPG
Magno, Robert	58	No Disclosures
Mahadevan-Jansen, Anita	82	No Disclosures
Mahoney, Anne M.	59	No Disclosures
Maire, Cyril	See Supplement	No Disclosures
Maisel, Amanda L.	See Supplement	No Disclosures
Maiya, Arun G.	62	No Disclosures
Makdisi, Joy	See Supplement	No Disclosures
Malhorta, Neel	See Supplement	No Disclosures
Mallalieu, Jared E.	See Supplement	No Disclosures
Mallidi, Srivalleesha	79	No Disclosures
Mamalis, Andrew	See Supplement	No Disclosures
Mang, Thomas S.	52, 78	Received consulting fees from: Concordia Pharma and Pinnacle Biologics; Served on advisory board with: Adgero biopharmaceuticals
Mange, Vanessa	See Supplement	No Disclosures
Mann, Margaret W.	16, 69,	No Disclosures
Manstein, Dieter	73, 74, 76, 85	Received consulting fees from: GME German Medical Engineering, Zeltiq; Has consulting contract with R2; Received honoraria from: Zeltiq (wife); Holds ownership interests with: Blossom Innovation, GME German Medical Engineering, Zalea; Received royalties from: Massachusetts General Hospital (licensing contracts with Cynosure, Cytrelis, Solta, Zeltiq); Served on Advisory Board for: Zeltiq
Maracle, Denise	61	No Disclosures
Marcos, Rodrigo Labat	92, 93	No Disclosures
Marcuzzo, Jossano Saldanha S.	92	No Disclosures
Maretti, Joao	100	No Disclosures

NAME	PAGE #	DISCLOSURE DETAILS
Margallo-Balbas, Eduardo	See Supplement	No Disclosures
Marin, Ana	99	No Disclosures
Markey, Mia	82	No Disclosures
Markus Ramsey	43	No Disclosures
Marquardt, Yvonne	88	No Disclosures
Martinec, Ksenija Selih	60	No Disclosures
Martinelli, Valentina	61	No Disclosures
Marui, Suemi	See Supplement	Received consulting fees from: Sanofi, Siemens
Mascaro, Marcelo B.	58, 99	No Disclosures
Massa, Mary C.	See Supplement	No Disclosures
Matos, Patrick	102, 103	No Disclosures
Mazer, Jean-Michel	See Supplement	No Disclosures
McCormack, Michael C.	28, 29, 84, 97	No Disclosures
McDaniel, David H.	8, 16, 28, 29	Received grant funding from: BTL Aesthetics, Cynosure, Ulthera/CellFina, Fibrocell Science, Illumitex, Dermarche Labs, Allergan, Merz, SkinBetter Science, Thermigen, Pfizer; Received equipment from: BTL Aesthetics, Cynosure, Zimmer, Thermi Aesthetics; Received a discount from: BTL Aesthetics, Cynosure, ThermiAesthetics; Received consulting fees from: Cynosure, SkinMedica/Allergan/Kythera/Activis, BTL Aesthetics, Dermaforce, Illumitex; Received travel expenses from: Kythera, Allergan, SkinCeuticals; Received honoraria from: SkinMedica/Allergan/Kythera/Activis, BTL Aesthetics, Dermarche Labs, Cynosure, Zeltiq, SkinCeuticals; Holds ownership interests with: LifeSpan Extension, McDaniel Institute of Anti-Aging Research; Served on advisory board with: SkinMedica/Allergan/Kythera/Activis, Fibrocell Science, Cynosure; Served as officer or director with: McDaniel Institute of Anti-Aging Research, McDaniel Laser and Cosmetic Center Served on Promotional Speakers Bureau with: Kythera;
McDermott, Laura L.	83	Holds ownership interests with: NuGene, Inc.; Received salary from: DermaSweep, Inc.; Served on advisory board with: NuGene, Inc.
McElroy, Austin	29	No Disclosures
McGrath, Clare	98	No Disclosures
McGraw, Timothy A.	60, 102	No Disclosures
Mebis, Jeroen	84, 85, 96	Received grant funding from: Vlk, Think Pink, ASA laser; Received consulting fees from: Roche, BMS, Novartis, Leo Pharma; Received travel expenses from: Novartis, Roche, Pfizer; Served on advisory board with: Roche, BMS, Leo Pharma
Meesters, Arne	See Supplement	No Disclosures
Mehmeti, Blerim	98	No Disclosures
Mehta, Dhvani	29	No Disclosures
Meier, Peter	See Supplement	No Disclosures
Mello, Ryan	89	No Disclosures
Menchaca, Arturo	See Supplement	Received honoraria from: ACell, Coloplast, Lasering USA
Mendes Pinto, Marcelo	53	No Disclosures
Merigo, Elisabetta	28, 29, 42	No Disclosures
Mesquita Ferrari, Raquel A.	82, 100	No Disclosures
Mestrovic, Senka	65	No Disclosures
Mignon, Charles	91	Received grant funding from: European grant; Received equipment from: Philips research; Received salary from: Philips research
Miguel, Nathalia Araujo	See Supplement	No Disclosures
Milanic, Matija	43	No Disclosures
Mileo, Anna Maria	61	No Disclosures
Miller, Daniel	See Supplement	No Disclosures
Milner, Thomas	8, 73, 81	Received grant funding from: CPRIT and Clayton Foundation; Received travel expenses from: Grant Reviewing; Received honoraria from: Invited Talks; Holds ownership interests with: Insight Photonics; Received salary from: UTexas; Received royalties from: UCalifornia and UTexas; Have intellectual property rights with: IP owned by UCalifornia, and UTexas
Min, Seonguk	99	No Disclosures
Miranda Franca, Cristiane	65	No Disclosures
Mirdan, Balsam M.	64	No Disclosures
Mishra, Vineet	16, 69, 77	Received travel expenses from: Ellipse; Received honoraria from: Syneron Candela

NAME	PAGE #	DISCLOSURE DETAILS
Miyake, Kasuo	69	Received equipment from: VeinViewer; Received a discount from: Alma Lasers; Received travel expenses from: Alma Lasers and VeinViewer
Mlacker, Stephanie	96	No Disclosures
Mogensen, Mette	85	Received grant funding from: Innovation Fund, Denamrk. ShapeOCT; Received consulting fees from: Leo Pharma, Denmark
Mohammad, Tasneem F.	See Supplement	Sub-Investigator for: Allergan; Estee Lauder; Ferndale Labs
Molon, Angela C.	See Supplement	No Disclosures
Monheit, Gary D.	See Supplement	Received consulting fees from: Allergan Corporation, Revance, Galderma, Merz, Suneva; Served as clinical investigator for: Allergan Corporation, Revance, Galderma, Merz, Suneva, Teoxane, Alphaeon
Moon, Jungyoon	99	No Disclosures
Mordon, Serge R.	61, 78, 79, 97	No Disclosures
Morton, Laurel M.	26	Received consulting fees from: Cytrelis; Received honoraria from: Cosmetic Bootcamp, Boston, MA
Moshnikova, Anna	73	No Disclosures
Motta, Lara Jansiski	65	No Disclosures
Motta, Pamela	See Supplement	No Disclosures
Moy, Wesley	17, 98	No Disclosures
Mraz Robinson, Deanne	26	Received grant funding from: Cynosure, ThermiAesthetics; Received equipment from: Cynosure, ThermiAesthetics; Received consulting fees from: Merz, Paradigm Medical; Received travel expenses from: Paradigm Medical; Served on advisory board with: ThermiAesthetics; Served on Promotional Speakers Bureau with: Paradigm Medical
Mudda, Jayashree	See Supplement	No Disclosures
Munavalli, Girish S.	24, 25, 102	Received grant funding from: Lutronic, Lumenis, Syneron Candela, Zeltiq; Received consulting fees from: Lutronic, Lumenis, Syneron Candela, Zeltiq, Inmode; Received honoraria from: Lutronic, Lumenis, Syneron Candela, Zeltiq, Inmode; Served on advisory board with: Sebacia
Murison, Max	99	No Disclosures
Muser, Inga	See Supplement	No Disclosures
Nakagawa, Atsuhiko	See Supplement	No Disclosures
Nakagawa, Ivens T.	92	No Disclosures
Nakano, Toru	See Supplement	No Disclosures
Napolitano, Ana Alice Teixeira	93	No Disclosures
Nam, Seung Min	See Supplement	No Disclosures
Naseem, Asma	60	No Disclosures
Nazarian, Sheila	77	Served on advisory board with: Merz, miraDry; Served on Promotional Speakers Bureau with: Zeltiq, Cynosure, Merz, Sciton, Vivace, miraDry
Neff, Glauce M.	98	No Disclosures
Nehal, Kishwer S.	75, 83, 98, 102	No Disclosures
Nelson, Aislyn M.	See Supplement	No Disclosures
Nelson, J. Stuart	16, 76	Received grant funding from: National Institutes of Health, Pfizer/Wyeth, Syneron Candela; Received equipment from: Syneron Candela, Cutera; Received travel expenses from: Syneron Candela; Received honoraria from: Syneron Candela; Received royalties from: University of California; Have intellectual property rights with: Syneron Candela
Nelson, Steven A.	See Supplement	No Disclosures
Nemergut, Michael	27	No Disclosures
Ng, Michelle S.	See Supplement	No Disclosures
Ngammongkolrat, Ruamporn	See Supplement	No Disclosures
Nguyen, Austin H.	See Supplement	No Disclosures
Nicholson, Cynthia	99	Served as a Sub-Investigator for: Allergan, Estee Lauder, and Ferndale Laboratories
Nielsen, Mette M. B.	43	No Disclosures
Noe, Leen	60	No Disclosures
Nouri, Keyvan	30, 58, 96	No Disclosures
Ochoa, Shari A.	See Supplement	No Disclosures
Oh, Jaesung	85	No Disclosures

NAME	PAGE #	DISCLOSURE DETAILS
Ojeda, Victoria D.	See Supplement	No Disclosures
Okui, Nobuo	88	No Disclosures
O'Loughlin, Rachel	See Supplement	No Disclosures
Olesen, Uffe Høgh	43, 47, 83, 99	No Disclosures
Olivan, Silvia Regina	See Supplement	No Disclosures
Oliveria, Luiz Henrique C.	92	No Disclosures
Oliveira, Marcia Regina C.	65	No Disclosures
Oliveria, Danila	93	No Disclosures
Ortega-Martinez, Antonio	43, 55	No Disclosures
Ortiz, Arisa E.	3, 7, 10, 14, 16, 24, 33, 47, 49, 57, 88, 104	Received equipment from: BTL, Cutera, Invasix, Merz, Sciton, Solta, Zeltiq; Received consulting fees from: Alastin, Merz, Sciton; Received travel expenses from: Invasix, Kythera, Sciton; Received honoraria from: Alastin, Invasix, Kythera, Sciton; Holds ownership interests with: Allergan, Neothetics; Served on advisory board with: Alastin, Invasix, Sciton, Sienna; Served on Promotional Speakers Bureau with: Invasix, Kythera, Sciton
Ortiz, Raquel L.	See Supplement	No Disclosures
Ottaviani, Giulia	60	Received salary from: K-Laser D.o.o. (Slovenia)
Ovtcharov, Tracy	29	No Disclosures
Owens, Patricia A.	16, 28, 70	Received consulting fees from: Body by Orange Twist, Rockwell Laser Industry; Received travel expenses from: Rockwell Laser Industry; Received honoraria from: Cosmetic Bootcamp LLC for meeting design, Dermatology Nurses Association; Holds ownership interests with: AestheticMed Consulting International LLC and Online Laser Training LLC; Received royalties from: Cengage Malady; Have intellectual property rights with: OLTUSA; Served as officer or director with: ICSP
Ozog, David M.	98, 99	No Disclosures
Paasch, Uwe	42, 48, 52	No Disclosures
Pal, Rahul	99	No Disclosures
Pallotta, Rodney Capp	92	No Disclosures
Palm, Melanie	35, 72	Received grant funding from: Ampersand, Allergan/Kythera, Galderma; Received consulting fees from: Galderma, Merz, Allergan, Lutronic, Lumenis; Received travel expenses from: Allergan, Galderma, Merz; Received honoraria from: Allergan, BTL, Galderma, Merz, Encore, Valeant, Lutronic, Lumenis; Served on Advisory Board for: Allergan, Galderma, Merz, BTL; Served on Promotional Speakers Bureau for: Allergan/Kythera, Galderma, Merz, BTL, Lumenis, Encore Dermatology, Valeant
Patel, Falguni	88	Received honoraria from: Syneron Candela
Patel, Utpalkumar	7, 77	Received consulting fees from: Aldeyra Therapeutics
Pathak, Ram	82	No Disclosures
Pathak, Swetha	See Supplement	No Disclosures
Pavani, Christiane	53	Received salary from: UNINOVE
Pedroso, Naya Madeira	82, 100	No Disclosures
Petit, Villavicencio W.	See Supplement	No Disclosures
Perchuk, Igor	64	Received travel expenses from: IPG; Received salary from: IPG
Perez, Silvana	See Supplement	No Disclosures
Perez-Laguna, Vanesa	See Supplement	No Disclosures
Perinetti, Giuseppe	60	No Disclosures
Perper, Marina	58	No Disclosures
Pestoni, Carmela	See Supplement	No Disclosures
Petrell, Kathleen G.	84, 98	No Disclosures
Petersen Neckman, Julia	See Supplement	No Disclosures
Phankosol, Puntarika	96	No Disclosures
Phelan, Herb A.	See Supplement	No Disclosures
Philipp, Carsten M.	97	Received equipment from: ADVALIGHT; Served on advisory board with: ADVALIGHT
Pilkiewicz, Frank G.	78	Received equipment from: Adgero Biopharmaceuticals, Inc.; Received travel expenses from: Adgero Biopharmaceuticals, Inc.; Holds ownership interests with: Adgero Biopharmaceuticals, Inc.; Received salary from: Adgero Biopharmaceuticals, Inc.; Have intellectual property rights with: Adgero Biopharmaceuticals, Inc.; Served as officer or director with: Adgero Biopharmaceuticals, Inc
Pinski, Kevin S.	See Supplement	Received a discount from: Aerolase; Served on advisory board with: Aerolase; Served on Promotional Speakers Bureau with: Aerolase
Pinto, Marcelo, M.	See Supplement	No Disclosures

NAME	PAGE #	DISCLOSURE DETAILS
Pinto, Nathali C.	See Supplement	No Disclosures
Plapler, Helio	92	No Disclosures
Podoleanu, Adrian	64	No Disclosures
Pollard, Leslie J.	28	No Disclosures
Ponticorvo, Adrien	55, 74	No Disclosures
Porto, Dennis A.	99	Received equipment from: FirstDerm, iDoc24; Received a discount from: DermLite; Received consulting fees from: VisualDx; Received travel expenses from: Neutrogena, Forefront Dermatology; Holds ownership interests with: CGIX, GNOW
Powel, Heather M.	85	Received grant funding from: Milliken Healthcare LLC;
Pozner, Jason N.	7, 32, 35, 56, 66, 72	Received grant funding from: MTF, TDM; Received equipment from: Apollo, Bella Contour, Cutera, Cynosure, Exilis, Human Med, Inmode, Invasix, Jeisys, Lutronic, Oculoplastik, Sciton, Inc., Serene Medical, Solta, Sound Surgical, Syneron Candela, Thermi, Zimmer; Received a discount from: Alma, Canfield, Cytori, Ellman, Invasix, Ra Medical, Solta, Sound Surgical, Zeltiq; Received consulting fees from: Merz, Sciton, Inc.; Holds ownership interests with: Cytrellis, Invasix, Keller Medical, Plastic Surgery Channel, Real Self, Revance, Sciton Inc., TDM, Thermi; Served on advisory board with: Allergan, Canfield, Cytrellis, Mentor, Merge, Midmark, Merz, New Beauty, Plastic Surgery Channel, Real Self, Syneron Candela, Valeant; Served as officer or director with: Served as editor for Aesthetic Plastic Surgery, Journal of Cosmetic & Laser Therapy, PSEN, QMP; Served as investigator for Syneron Candela, Cynosure, HOYA, Invasix; Served as reviewer for Plastic and Reconstructive Surgery, Prime: Internation Journal of Aesthetic; Served on Promotional Speakers Bureau with: Alma, Lifecell, Solta, Sound Surgical, Thermi, Zeltiq
Prates, Renato A.	53, 64	No Disclosures
Prather, Heidi	77	No Disclosures
Previati-Oliveira, Jhosepher	64	No Disclosures
Pritt, Bobbi	55	No Disclosures
Pritzker, Rachel N.	26	No Disclosures
Pronda, Maaikie	74	No Disclosures
Qian, Chenxi	98	Received grant funding from: University of Missouri Fast Track Program Grant, A. Ward Ford Memorial Institute Grant
Qin, Zhenpeng	55	No Disclosures
Raafs, Bianca	91	No Disclosures
Rabie Abdelhalim, Mona	51	No Disclosures
Radica, Natasa	65	No Disclosures
Raff, Adam B.	43	No Disclosures
Rahman, Zakia	98, 99	Received equipment from: Solta, Sciton; Received consulting fees from: Cutera, Tria Beauty, Lexington Int, Zeltiq; Received travel expenses from: Solta; Served on advisory board with: Lexington Int.
Rajadhyaksha, Milind	47, 75	Holds ownership interests with: Equity in Caliber Imaging and Diagnostics
Randolph, Mark A.	See Supplement	No Disclosures
Redmond, Robert W.	See Supplement	No Disclosures
Rees, Meikin L.	29	Received grant funding from: ASLMS; Received travel expenses from: ASLMS
Reichenberg, Jason	82	No Disclosures
Reis, Stephane da Silva	65	No Disclosures
Renaud, Ajakaida Y.	89	No Disclosures
Reshetnyak, Yana K.	73	Holds ownership interests with: pHLIP Inc; Have intellectual property rights with: pHLIP Inc; Served as officer or director with: pHLIP Inc
Ribe, Adriana	58	No Disclosures
Ribeiro, Beatriz	See Supplement	No Disclosures
Ribeiro, Martha	53	No Disclosures
Rigonato-Oliveira, Nicole C.	100	No Disclosures
Rivers, Jason K.	84	Received grant funding from: Allergan, Leo, Regeneron, Xenon, Zeltiq; Received a discount from: Allergan, Galderma, Valeant; Received consulting fees from: Allergan, Cipher, Galderma, MetaOptima, Valeant; Received travel expenses from: Allergan, Ipsen, Leo; Received honoraria from: Allergan, Cipher, Ipsen, Johnson & Johnson, Valeant; Holds ownership interests with: Riversol; Served on advisory board with: Allergan, Cipher, Galderma, Valeant; Served as officer or director with: Riversol; Served on Promotional Speakers Bureau with: Allergan
Rizvi, Imran	52, 79	No Disclosures

NAME	PAGE #	DISCLOSURE DETAILS
Robb, Chris W.	56, 57	Received equipment from: Infini; Received consulting fees from: Celacyn; Received travel expenses from: Sciton, Galderma; Served on advisory board with: Sciton, Celacyn; Served on Promotional Speakers Bureau with: Sciton
Robijns, Jolien	11, 60, 102	Received grant funding from: ASA laser srl; Limburgs Kankerfonds; Live a life; Received travel expenses from: Group Laser de la SFD; Received salary from: Limburg Clinical Research Program (LCRP) UHasselt-ZOL-Jessa, supported by the foundation Limburg Sterk Merk, province of Limburg, Flemish government, Hasselt University, Ziekenhuis Oost-Limburg, and Jessa Hospital
Rodrigues, Jose	See Supplement	No Disclosures
Rodrigues Soares, Clariana	See Supplement	No Disclosures
Rogers, John D.	See Supplement	Received salary from: Galderma
Rohrer, Thomas E.	17, 98	Received grant funding from: Allergan, Merz; Received a discount from: Syneron Candela; Received honoraria from: Syneron Candela; Served on advisory board with: Syneron Candela
Rosa Jr., Geraldo	93	No Disclosures
Ross, E. Victor	16, 24, 27, 28, 29, 32, 36, 39, 49, 66, 67, 76, 77, 96, 97	Received grant funding from: Alma, Cutera, Cynosure, Lumenis, Lutronic, Syneron Candela; Received equipment from: Cynosure; Received a discount from: Alma; Received consulting fees from: Cynosure, Inmode, Lumenis, Miramar Labs, Sebacia, Syneron Candela, Sciton; Received travel expenses from: Alma, Cynosure, Cutera, Lumenis
Rossi, Anthony M.	7, 17, 47, 83, 98, 99, 102, 103, 104	Received grant funding from: Skin Cancer Foundation; Received consulting fees from: Dynamed, Esteya, Novartis; Received travel expenses from: Maviq; Received honoraria from: Allergan; Cutera; Served on advisory board with: AAD; Served as officer or director with: AAD; ASLMS, ASDA
Rowland, Rebecca	74	No Disclosures
Rubin, Iris	16, 27, 76	No Disclosures
Rubio-Guivernau, Jose	82	Received travel expenses from: MedLumics S.L.; Holds ownership interests with: MedLumics S.L.; Received salary from: MedLumics S.L.; Served as officer or director with: MedLumics S.L.
Rudd, Grant	79	No Disclosures
Runyan, Gem	See Supplement	No Disclosures
Rupel, Katia	60	No Disclosures
Sadick, Neil S.	16, 35, 38, 59, 61, 95	Received consulting fees from: Venus Concept, Cutera, Suneva, Galderma; Received travel expenses from: Venus Concept, Cutera; Received honoraria from: Solta, Endymed, Venus concept, Storz, Z-wave, Eternogen; Served on advisory board with: Venus Concept; Served as officer or director with: Venus Concepts
Sadiq, Faiza	90	No Disclosures
Saedi, Nazanin	3, 7, 14, 16, 24, 25, 26, 41, 49, 77, 104	Received grant funding from: Cynosure; Received equipment from: Cynosure; Received consulting fees from: Cynosure, Solta, Vivo Capital; Received honoraria from: Cynosure, Solta; Served on Promotional Speakers Bureau with: Cynosure, Solta
Saidian, Mayer	74	No Disclosures
Sakamoto, Fernanda H.	4, 24, 25, 37, 52	Received consulting fees from: Living Proof; Olivo, Inc.; Received honoraria from: Strata Sciences; Sofregen; Holds ownership interests with: Seven Oaks; Living Proof; Seventh Sense; MOE Devices; Cytrelis; Received royalties from: Seven Oaks; Have intellectual property rights with: Seven Oaks; Served on advisory board with: Quanta Lasers
Saknite, Inga	See Supplement	No Disclosures
Saltorato, Joyce Camilla	93	No Disclosures
Saluja, Raminder K.	See Supplement	Served on advisory board: Cynosure; Served on Promotional Speakers Bureau: Cynosure
Saluja, Sandeep S.	96	No Disclosures
Samarkandy, Sahal J.	96	No Disclosures
Samuels, Julene	89	No Disclosures
San Luis, Nikki	See Supplement	No Disclosures
Sanches, Iris	See Supplement	No Disclosures
Sandhu, Sophia	See Supplement	No Disclosures
Santos, Debora de Souza	See Supplement	No Disclosures
Santos, Larissa C.	See Supplement	Received grant funding from: ASLMS
Saraiva Camara, Niels Olsen	92	No Disclosures
Sato, Chiaki	See Supplement	No Disclosures
Sawaya, Jennifer L.	See Supplement	No Disclosures
Schalch, Tatiana D.	See Supplement	No Disclosures
Schartz, Noel	102	No Disclosures

NAME	PAGE #	DISCLOSURE DETAILS
Schilling, Laura M.	See Supplement	No Disclosures
Schmitt, Laurenz	43	No Disclosures
Schomacker, Kevin T.	96, 97	No Disclosures
Schram, Sarah E.	See Supplement	No Disclosures
Schulman, Joshua	See Supplement	No Disclosures
Scibilia, Giuseppe	See Supplement	No Disclosures
Sebastian, Katherine	82	No Disclosures
Sebille, Gwendoline	102	No Disclosures
Sella, Valeria	92	No Disclosures
Sencar, Sabina	89	No Disclosures
Seoudy Elsheikh, Mai	82	No Disclosures
Serra, Andrey	100	No Disclosures
Sfalcin, Ravana A.	See Supplement	No Disclosures
Sgura, Ricardo	See Supplement	No Disclosures
Shafiq, Faiza	57	No Disclosures
Sheu, Sarah	98	No Disclosures
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NAME	PAGE #	DISCLOSURE DETAILS
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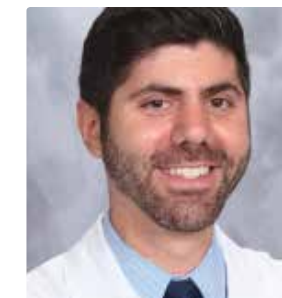
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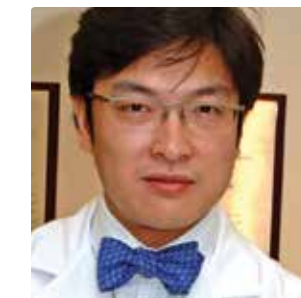
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