## Schedule at a Glance

<table>
<thead>
<tr>
<th>Time</th>
<th>WEDNESDAY, 01/11</th>
<th>THURSDAY, 01/12</th>
<th>FRIDAY, 01/13</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00 am</td>
<td>Instructional Courses</td>
<td>Instructional Courses</td>
<td>Instructional Courses</td>
</tr>
<tr>
<td>7:30 am</td>
<td>Welcome &amp; Panel Management of the Mangled Hand</td>
<td>Presidential Welcome</td>
<td>Hand Surgery Endowment President Report</td>
</tr>
<tr>
<td>8:00 am</td>
<td>Management of Hand Trauma in an Austere Environment</td>
<td>Presidential Address</td>
<td>Debate 1</td>
</tr>
<tr>
<td>8:30 am</td>
<td>Panel</td>
<td>Concurrent Panels A &amp; B</td>
<td>Debate 2</td>
</tr>
<tr>
<td>9:00 am</td>
<td>Coffee Break</td>
<td>Concurrent Scientific Paper Sessions A &amp; B</td>
<td>Open Forum Session</td>
</tr>
<tr>
<td>9:30 am</td>
<td>Prevention and Management of Hand Stiffness After Trauma</td>
<td>Invited Guest Lecture</td>
<td>Scientific Paper Session A2</td>
</tr>
<tr>
<td>10:00 am</td>
<td>Invited Guest Lecture James Chang, MD</td>
<td>Brazilian Hand Society Session</td>
<td>Joint Concurrent AAHS/ASPN Panel</td>
</tr>
<tr>
<td>10:30 am</td>
<td>Coffee Break with Exhibitors</td>
<td>Presidential Address Mandayam A. Srinivasan, PhD</td>
<td>ASPN Council Meeting</td>
</tr>
<tr>
<td>11:00 am</td>
<td>Panel Prevalence and Management of Hand Stiffness After Trauma</td>
<td>Invited Guest Lecture Terry R. Light, MD</td>
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</tr>
<tr>
<td>11:30 am</td>
<td>Hands-On Development Workshops</td>
<td>Brazilian Hand Society Session</td>
<td>Sparse Paper Session A2</td>
</tr>
<tr>
<td>12:00 pm</td>
<td>Hands-On Development Workshops</td>
<td>Concurrent Scientific Paper Sessions A &amp; B</td>
<td>Sparse Paper Session A3 &amp; B</td>
</tr>
<tr>
<td>12:30 pm</td>
<td>Hands-On Development Workshops</td>
<td>Debat 1</td>
<td>Open Forum Session</td>
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<td>1:00 pm</td>
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<td>Open Forum Session</td>
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<td>1:30 pm</td>
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<td>Open Forum Session</td>
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<tr>
<td>6:00 pm</td>
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<td>Debat 1</td>
<td>Open Forum Session</td>
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<td>Debat 2</td>
<td>Open Forum Session</td>
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<tr>
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<td>Debat 1</td>
<td>Open Forum Session</td>
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<tr>
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<td>Hands-On Development Workshops</td>
<td>Debat 2</td>
<td>Open Forum Session</td>
</tr>
<tr>
<td>8:00 pm</td>
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<td>Debat 1</td>
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<tr>
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<td>9:00 pm</td>
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<td>Debat 1</td>
<td>Open Forum Session</td>
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</tbody>
</table>

**Legend**

- **AAHS**: American Academy of Hand Surgery
- **ASPN**: American Society for Preventive Surgery
- **ASRM**: American Society for Reconstructive Microsurgery
- **Combined Day AAHS/ASPN/ASRM**

**Schedule at a Glance**

- **AAHS Program**
  - Instructional Courses
  - Welcome & Panel Management of the Mangled Hand
  - Panel Treating Hand Trauma in an Austere Environment
  - Coffee Break
  - Prevention and Management of Hand Stiffness After Trauma
  - Invited Guest Lecture James Chang, MD
  - Hands-On Development Workshops
    - Surgeons Workshop: Principles and Application of Internal Fixation in the Hand
    - Therapist Workshop: Advanced Splinting Techniques in the Hand and Wrist
  - Mentors Reception: Wine with the Wizards
  - Welcome Reception

- **AAHS Program**
  - Instructional Courses
  - Presidential Welcome
  - Debate 1
  - Debate 2
  - Concurrent Panels A & B
  - Concurrent Scientific Paper Sessions A & B
  - Invited Guest Lecture James Chang, MD
  - Hands-On Development Workshops
    - Surgeons Workshop: Principles and Application of Internal Fixation in the Hand
    - Therapist Workshop: Advanced Splinting Techniques in the Hand and Wrist
  - Mentors Reception: Wine with the Wizards
  - Welcome Reception

- **AAHS & ASPN Programs**
  - Instructional Courses
  - Presidential Welcome
  - Debate 1
  - Debate 2
  - Concurrent Panels A & B
  - Concurrent Scientific Paper Sessions A & B
  - Invited Guest Lecture Mandayam A. Srinivasan, PhD
  - Coffee Break/Exhibitors
  - Brazilian Hand Society Session
  - Presidential Address Steven McCabe, MD
  - Invited Guest Lecture Terry R. Light, MD
  - Brazilian Hand Society Session
  - Invited Guest Lecture Mandayam A. Srinivasan, PhD
  - Annual Business Meeting
  - AAHS Members Only
  - Invited Lecture Uros Ahcan, MD, PhD
  - Instructional Courses
  - Comprehensive Hand Review Course
  - Scientific Paper Session 1 & Lunch
  - Scientific Paper Session 2
  - Panel
  - AAHS Annual Meeting Dinner Dance

**Legend**

- **AAHS**: American Academy of Hand Surgery
- **ASPN**: American Society for Preventive Surgery
- **ASRM**: American Society for Reconstructive Microsurgery
- **Combined Day AAHS/ASPN/ASRM**
The AAHS 2012 Annual Meeting theme is “Learning from Friends” — Life-long learning is an integral part of hand surgery and hand therapy practice. This meeting has been geared to provide a stimulating educational experience in a relaxed and engaging format with a lively social program.

Along with the traditional free papers, Association members will now have a unique opportunity to share their new ideas at the “Members Forum,” a session for 2 minute presentations on member innovations. Delegates can choose from among 24 complementary Instructional Courses (including 2 courses certified for MOC by the ABPS) with faculty comprised of internationally renowned hand surgeons and therapists focusing on both common clinical issues and challenging problems. Presentations will be case-based explaining principles of safe practice supported by outcome-based evidence. The program also includes panel discussions comparing traditional and newer treatment options for Dupuytren’s disease, nerve gaps and wrist arthritis. “Hot-button” management controversies will be discussed in a series of lively debates between experts. Along with the Presidential address given by Dr. Steve McCabe, featured speakers will include Dr. Terry Light, Professor and Chair of Orthopaedic Surgery at Loyola University, Chicago, and Dr. Mandayam A. Srinivasan, Senior Research Scientist from the Massachusetts Institute of Technology. The Association especially extends a warm welcome to our guest members from the Brazilian Hand and colleagues at home.

The ASPN scientific sessions will span three days, and the program is highly integrated with AAHS and ASRM, including a joint AAHS-ASPN panel on Friday, combined programming on Saturday and a joint ASPN-ASRM panel on Sunday. We have built upon the excellent integration of last years’ meetings, and hopefully made it even better!

In addition to a variety of instructional courses, panels and scientific paper sessions, ASPN will once again feature an interactive poster session with cocktails — you WONT WANT TO MISS IT!!! Invited speakers include Professor Uros Ahcan, MD, PhD from Ljubljana Slovenia, Tessa Hadlock, MD from Boston and Tessa Gordon, PhD from Toronto. The AAHS-ASPN-ASRM keynote speaker is Steve Levitt, the acclaimed author whose best-selling book Freakonomics has armed millions of readers with enough riddles and stories for a thousand cocktail parties.

I would like to sincerely thank ASPN President, Ivica Ducic, and Randy Bindra and David Song, program directors for AAHS and ASRM respectively, as well as the other leadership of all three organizations for their assistance and support in making this an outstanding meeting!

Welcome to Red Rock!

David H. Song, MD, MBA, FACS
2012 ASRM Program Chair
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<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuesday, January 10</td>
<td>4:00pm – 7:00pm</td>
</tr>
<tr>
<td>Wednesday, January 11</td>
<td>6:30am – 3:00pm</td>
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<tr>
<td>Thursday, January 12</td>
<td>6:30am – 3:00pm</td>
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<td>Friday, January 13</td>
<td>6:30am – 5:30pm</td>
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<tr>
<td>Saturday, January 14</td>
<td>6:30am – 5:00pm</td>
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<tr>
<td>Sunday, January 15</td>
<td>6:30am – 4:30pm</td>
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<tr>
<td>Monday, January 16</td>
<td>6:30am – 3:30pm</td>
</tr>
<tr>
<td>Tuesday, January 17</td>
<td>6:30am – 1:00pm</td>
</tr>
</tbody>
</table>

AAHS Electronic Poster Viewing Times

All posters will be displayed in an electronic poster (ePoster) format. ePosters are electronic versions of presenters' work in single power point slides that will be displayed in a kiosk on-site in the Exhibit Hall from Thursday, January 12 to Saturday, January 14. Please refer to the ePosters listing in the book to reference a specific title or author. Reference page 42 for details.

ASPN Poster Presentation Viewing Hours

The ASPN Poster Presentations will be placed in the ASPN General Session, Summerlin CD Room from Friday, January 13th - Sunday, January 15th. ASPN will host a Special Poster Presentation Session on Saturday, January 14th from 4:50pm-5:45pm.

ASRM Digital Poster Viewing Hours

The ASRM Digital Poster Presentations will be placed in the Exhibits Hall room from Sunday, January 15th – Tuesday, January 17th. A poster viewing luncheon will be held on Sunday, January 15th from 12:15pm-1:15pm to provide interaction with the poster authors.

Commercial Exhibits

The commercial exhibits will be located in the Charleston Room. A variety of commercial exhibits are featured at the meeting, enabling the attendees to learn about the technological advances pertaining to upper extremity surgery, neurosurgery and reconstructive microsurgery, and to meet key suppliers. Please refer to the Exhibit Listing in this book.

Exhibit Hours

<table>
<thead>
<tr>
<th>Day/Date</th>
<th>Time</th>
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<tbody>
<tr>
<td>Thursday, January 12</td>
<td>6:30am - 1:40pm</td>
</tr>
<tr>
<td></td>
<td>6:30am-7:00am  AAHS Breakfast/Exhibits</td>
</tr>
<tr>
<td></td>
<td>10:30am-10:55am  AAHS Break/Exhibits</td>
</tr>
<tr>
<td></td>
<td>12:40pm-1:40pm  AAHS Lunch/Exhibits</td>
</tr>
<tr>
<td>Friday, January 13</td>
<td>6:30am - 2:30pm</td>
</tr>
<tr>
<td></td>
<td>6:30am-7:00am  AAHS Breakfast/Exhibits</td>
</tr>
<tr>
<td></td>
<td>10:10am-10:30am  AAHS Break/Exhibits</td>
</tr>
<tr>
<td></td>
<td>2:00pm-2:15pm  ASPN Break/Exhibits</td>
</tr>
<tr>
<td>Saturday, January 14</td>
<td>6:30am - 3:00pm</td>
</tr>
<tr>
<td></td>
<td>6:30am-8:00am  AAHS/ASPN/ASRM Breakfast/Exhibits</td>
</tr>
<tr>
<td></td>
<td>9:30am-10:00am  AAHS/ASPN/ASRM Break/Exhibits</td>
</tr>
<tr>
<td></td>
<td>2:30pm-2:50pm  ASPN/ASRM Break/Exhibits</td>
</tr>
<tr>
<td></td>
<td>6:00pm-7:30pm  ASPN/ASRM Welcome Reception</td>
</tr>
<tr>
<td>Sunday, January 15</td>
<td>7:00am - 1:30pm</td>
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<tr>
<td></td>
<td>7:00am-8:00am  Breakfast/Exhibits</td>
</tr>
<tr>
<td></td>
<td>10:00am-10:15am  Break/Exhibits</td>
</tr>
<tr>
<td></td>
<td>12:15pm-1:15pm  ASRM Poster/Exhibits Luncheon</td>
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</tbody>
</table>

Monday, January 16

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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</thead>
<tbody>
<tr>
<td>7:00am-9:00am</td>
<td>Breakfast/Exhibits</td>
</tr>
<tr>
<td>9:30am-10:00am</td>
<td>Break/Exhibits</td>
</tr>
<tr>
<td>11:45am-12:30pm</td>
<td>Lunch/Exhibits</td>
</tr>
<tr>
<td>7:00pm-10:00pm</td>
<td>ASRM Vegas Style Social Event</td>
</tr>
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</table>

* An Internet Station will be located in the exhibit hall and is available to all attendees during the published exhibit hours.

Speaker Ready Room Hours

The Speaker Ready Room will be located in the Willows Room.

<table>
<thead>
<tr>
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</tr>
<tr>
<td>Tuesday, January 17</td>
<td>6:00am – 12:45pm</td>
</tr>
</tbody>
</table>

Dress Code

We encourage meeting attendees to dress casually and comfortably. Jackets and ties are not required for any business or networking events. If you plan to be outdoors in the evening, a jacket may be preferred.

Message Board

A message board will be set up near Meeting Services in the Registration area. Please refer to the message board for meeting notices and general announcements.

COPYRIGHT

All of the proceedings of the annual meeting, including the presentations of scientific papers, are intended solely for the benefit of the membership of the American Association for Hand Surgery, American Society for Peripheral Nerve and American Society for Reconstructive Microsurgery. No statement or presentation made at the meeting 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 the American Association for Hand Surgery, American Society for Peripheral Nerve and American Society for Reconstructive Microsurgery. Any sound reproduction, transcript, or other use of material presented at the meeting without the permission of the speaker or the American Association for Hand Surgery, American Society for Peripheral Nerve and American Society for Reconstructive Microsurgery is prohibited to the full extent of common law copyright in such material.

Mobile Application

A mobile application containing contents of the Annual Meeting Program, Abstract Book, and link to handouts, will be available on both the iOS (iPad and iPhone) and Android platforms. In addition, we will have a mobile website with the same content but different functionality for those who have Blackberry smartphones. Please visit any of these websites to download today www.handsurgery.org, www.peripheralnerve.org or www.microsurg.org

THE USE OF CAMERAS OR PHOTOGRAPHIC EQUIPMENT IS NOT PERMITTED.
2012 Exhibitor Listing

ACell Inc.
Booth #6
6640 Eli Whitney Drive, Suite 200
Columbia, MD 21046

Description of products:
Next generation “ECM” devices that repair and remodel damaged tissues, includes an intact epithelial basement membrane, releases bioactive components triggering abundant new blood vessel formation and recruiting numerous cells to the wound, including progenitor cells, which differentiate into site-specific tissues, leaving new tissue where scar tissue would normally be expected.

ACell Products
MatriStem® Wound Matrix, MatriStem MicroMatrix®, MatriStem Surgical Matrix RS, MatriStem Surgical Matrix PSM, MatriStem Surgical Matrix PSMX, and MatriStem Pelvic Floor Matrix
www.acell.com

AMERICAN SOCIETY OF HAND THERAPISTS
Booth #33
Karen Peterson
15000 Commerce Pkwy, #C
Mount Laurel, NJ 08054
Phone: 856-380-6856
ASHT@asht.org

The American Society of Hand Therapists is a professional organization comprising licensed occupational and physical therapists who specialize in the treatment and rehabilitation of the upper extremity. Stop by the ASHT booth to talk with us about the latest in hand therapy services and continuing education opportunities.
www.asht.org

AM SURGICAL
Booths #26, 27
290 E Main Street, Ste 200,
Smithtown, NY 11787
Phone: 800-437-9653
mbinnick@amsurgical.com

A.M. Surgical, Inc offers an endoscopic release system featuring a clear cannula and scope-mounting blade that is used for endoscopic cubital tunnel, carpal tunnel and trigger finger release.
www.amsurgical.com

SHARPOINT™ / ANGIOTECH
Booth #41
100 Dennis Drive
Reading, PA 19606
Phone: 610-221-7676
info@angio.com

M.E.T™ microsurgical needles utilize Infinite Edge™ technology, a proprietary process that ensures incision products are consistently sharp and dimensionally true. All microsuture needles are made of specialty stainless-steel wire that has been tempered to a precision balance of hardness and tensile strength. Angiotech’s unique in-house manufacturing processes ensures that each needle falls within exceptionally tight production tolerances. The end result: a needle that holds a fine edge and is resistant to bending as you apply the necessary pressure.
www.sharpont.com

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Booth #10
Aptis Medical, LLC
3602 Glenview Avenue
Glenview, KY 40025
Phone: 502-523-6738
info@apitismedical.com

APTIS MEDICAL specializes in taking current concepts to the next level. With the success of the Scheker DRUJ prosthesis, Apts has provided a product that totally replaces the DRUJ, prevents subluxation and allows the bearing of weight. Other new and innovated designs for joint replacement are soon to follow.
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Booth #38
Marie Bonazinga
300 Shames Dr.
Westbury, NY 11590
Phone: 800-645-3569
assi@accuratesurgical.com

ASSI a world leader and your only source for the Finest Hand Crafted Microsurgical Instrumentation and Micro Vascular Clamps for the Hand and Reconstructive Surgeon. We offer Instrumentation for Perforator Flaps and extremely fine procedures, our Patented Lalonde Bone Clamps, Hand Table, Nerve and Tendon Sets for Surgery of Peripheral Nerves. We also offer an extensive range of Plastic Surgery instrumentation including Breast Retractors and Mammary Retractors, Walden Breast Marker, Areola Markers from 18 – 60mm dia., Gynecomastia Retractor Gonzales Gluteal Remodeling Instrumentation, our Noble True Non-Stick Micro Monopolar and Bipolar Forceps, and our complete range of SuperCut Regular and Ceramic Coated Scissors. Stop by and see what is New.
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AUXILIUM PHARMACEUTICALS, INC.
Booth #22 & 23
40 Valley Stream Pkwy.
Malvern, PA 19335
Phone: 484-321-5900
karen@thefalkgroup.com

Auxilium Pharmaceuticals, Inc.’s mission includes the development and marketing of novel treatment options for many of society’s unmet medical needs. We are the makers of XIAFLEX® (collagenase clostridium histolyticum), the only FDA-approved nonsurgical choice with proven efficacy indicated for the treatment of adults with Dupuytren’s contracture with a palpable cord.
www.auxilium.com, XIAFLEX.com

AXOGEN
Booth #4
13859 Progress Blvd.
Suite 100
Alachua, FL 32615
Phone: 888-296-4361
vsingh@axogeninc.com

AxoGen is a regenerative medicine company with a portfolio of proprietary products and technologies for peripheral nerve reconstruction and regeneration. AxoGen is bringing the science of nerve repair to life with its Avance® Nerve Graft, AxoGuard® Nerve Connector, and AxoGuard® Nerve Protector.
www.axogeninc.com
BUXTON BIOMEDICAL  
Booth #40  
15A Melanie Lane  
East Hanover, NJ 07936  
Phone: 973-560-4848

Come linger in my parlor, Cooed the spider to the fly. Let me weave a web of wonder ‘bout products you should try. I’ve tidied up my table, Everything’s arranged. Hand instruments familiar...and some a little strange. Come in a little closer now, and set yourself near here. This scissors just within your grasp; There’s nothing here to fear. I’ll spin my yarn of intrigue, Tell you stories oh so grand! Here, hold this rongeur or this rasp! Don’t mind that silken strand.

www.buxtonbio.com

CARL ZEISS MEDITEC  
Booth 17  
5160 Hacienda Drive, Dublin, CA 94568  
Phone: 925-557-4100  
i.info@meditec.zeiss.com

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CHECKPOINT SURGICAL LLC  
Booth #28  
22901 Millcreek Blvd.  
Suite 110  
Cleveland, OH 44122  
Phone: 877-478-9106  
info@checkpointsurgical.com

Designed by a world-class team of surgeons and biomedical engineers, the CHECKPOINT® Stimulator/Locater is a hand-held, intraoperative nerve and muscle stimulator that helps surgeons locate, identify and evaluate motor nerve and muscle function in surgical procedures that require careful and precise soft tissue dissection or nerve exploration and repair techniques.

www.checkpointsurgical.com

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Booth #7  
577 West Century Blvd., #670  
Los Angeles, CA 90045  
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info@ceortho.com

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Brooklyn, NY 11215  
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The Guatemala Healing Hands Foundation is a nonprofit organization dedicated to improving the quality and availability of health care in Guatemala through education, surgery, and therapy. Specializing in the treatment of congenital hand conditions, burns, and injuries, we aim to reach the Guatemalan population through 12-day medical missions led by a team of specialized and skilled surgeons, therapists, and dedicated volunteers.

www.guatemalahands.org

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www.handbiolab.com

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The Hand Rehabilitation Foundation, established in 1975, is a 501(c)(3) non-profit corporation formed to promote research and education, and disseminate information to physicians and therapists who work with children and adults with hand disorders caused by injury, disease, or present at birth. Among its other educational offerings, each year The Foundation sponsors an annual symposium known worldwide as The Philadelphia Meeting. This symposium brings together an international faculty of hand surgeons and certified hand therapists to teach and demonstrate the most current advances in hand rehabilitation correlated with hand surgery. Since the first symposium in 1974, thousands of hand therapists, occupational therapists, physical therapists and surgeons have increased their clinical skills and knowledge by attending this meeting.

www.handfoundation.org

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jeff@instratek.com

Instratek, Inc.™ is a Houston, TX based global medical device company, synonymous with minimally invasive surgical technologies for over 20 years. Instratek develops, manufactures, and markets endoscopic instrumentation for Carpal Tunnel and Trigger Finger. In addition, implant products include the CMC Cable FIX for basal thumb arthritis.

www.instratek.com

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Integra, a world leader in regenerative medicine, manufactures and markets medical devices used in plastic and reconstructive surgery, orthopedics and general surgery. These products focus on lower extremity fixation, upper extremity fixation, wound repair, tendon protection, and peripheral nerve repair/protection. Integra’s reconstructive portfolio includes NeuraGen Nerve Guide, Integra Dermal Regeneration Template and the KMI and Newdeal line of products for extremity fixation.

www.integralife.com

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Buffalo Grove, IL 60089
Phone: 800-248-0123
info@leica-microsystems.com

Leica Microsystems supports plastic and reconstructive surgeons and their care of patients with the highest-quality, most innovative surgical microscopes today. Visit the Leica Microsystems booth to see the premium-quality Leica M525 surgical microscope, new Leica F50 multi-discipline microscope, and more. Leica Microsystems offers superb optics and comfort for the surgeon.

www.leica-microsystems.com

LIFECCELL
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swoodring@lifecell.com

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www.lifecell.com

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sgervase@lww.com
www.lww.com

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Plymouth, MI 48170
Phone: 734-259-7011
info@materialise.com

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www.materialise.com/ortho

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Phone: 507-289-8313
anding.william@mayo.edu

Mayo Clinic’s Microvascular Surgery Skills Course is a five day program focused on skill development in the use of microvascular surgical techniques. The course allows each attendee to receive extensive individualized training. Staff, residents and fellows are all welcome to attend. CME credits are also available.
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Phone: 303-273-5344
vsp@medicalmodeling.com

Medical Modeling specializes in Virtual Surgical Planning (VSP®) and production of models, guides and templates to transfer a digital pre-surgical plan to the operating room. Especially relevant to reconstructive microvascular surgery, our work with VSP® of fibula free flap grafts for maxilla/mandibular reconstruction has proven invaluable to many teams performing this operation. Stop by our booth to learn more about our unique product offering.

www.medicalmodeling.com

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Des Moines, IA 50323
Phone: 800-762-7921
tkellen@medlinkusa.com

Medlink manufactures the 2880 reconstructive microscope. The 2880 is the only microscope designed exclusively for reconstructive microsurgeons. The 2880 features, Dual Magnification, 180 degree independent rotating heads, 4” x 12” X-Y, and dual, full function footswitches and hand switches.

www.medlinkusa.com

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webinfo@osteomed.com

OsteoMed Small Bone Orthopedics division offers the Hand and Upper Extremity surgeon premium implant products and quality service. OsteoMed is a leading global innovator, developer, manufacturer and marketer of specialty medical devices, surgical implants and powered surgical instruments. The company’s success is driven by its ability to develop and deliver innovative, quality products that improve patient outcomes and offer technically advanced, simple and cost effective solutions. OsteoMed’s state of the art manufacturing facility and world headquarters is located in Dallas, Texas.

www.osteomed.com

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Arlington Heights, IL 60005
Phone: 800-766-4955
jeverson@plasticsurgery.org

The Plastic Surgery Education Network (PSEN) is the comprehensive online education portal for plastic surgery – the aggregator of the specialty’s core knowledge from residency to retirement. This collaborative site developed by ASPS in cooperation with ACAPS, AAHS, ASAPS, ASPN, ASRM, ASMS and PSRC offers procedural videos, recorded lectures, CME/MOC courses, and much more.

www.psenetwork.org

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Phone: 5 51621072345
danny@razek.com.br


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bfeingold@skeletaldynamics.com
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www.skeletaldynamics.com

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Small Bone Innovations, Inc. (SBI) is a sole source provider of products, technology, and education for small bone and joint surgeons worldwide in the medical device market.
wwwtotalsmallbone.com

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lizzy@spectros.com
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info@synovismicro.com
Synovis Micro, The Microsurgeon’s Most Trusted Resource®, provides innovative, advanced technologies specifically for microsurgeons including the FLOW COUPLER®; Microvascular Anastomotic COU-PLER™; GEM Neurotube® the gold standard in nerve conduits; S&T® Microsurgical Instruments; GEM Micro Sterilization Trays™; GEM Original and SuperFine MicroClips™ and Appliers; GEM Focus™ LED Cordless Headlight; and Acland® Micro Vascular Clamps.
www.synovismicro.com

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West Chester, PA 19380
Phone: 610-719-5000
info@synthes.com
Synthes is a leading global medical device company. We develop, produce and market instruments, implants and biomaterials for the surgical fixation, correction and regeneration of the human skeleton and its soft tissues.
www.synthes.com

TEI BIOSCIENCES INC.
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Phone: 617-268-1616
info@teibio.com
A Boston-based, privately-held, leading biomedical company, TEI Biosciences has applied its expertise in regenerative medicine to develop and commercialize novel biologic devices for a broad spectrum of soft tissue repair and regeneration applications – from dura, tendon and hernia repair to plastic and reconstructive surgery, and wound healing.
www.teibio.com
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nnelson@tornier.com
Tornier’s market-leading extremities products provide solutions for the shoulder, foot, ankle, hand, wrist, and elbow specialists. These products address a broad range of applications for joint reconstruction, trauma and osteosynthesis, biologic regeneration and repair, and sports medicine.

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Touch Bionics is a provider of world-leading prosthetic technologies and supporting services designed to achieve positive outcomes for people with upper limb deficiencies. Our products include multi-articulating prosthetic finger and hand solutions, as well as passive functional silicone prostheses that closely match the natural appearance of the wearer.
www.touchbionics.com

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Santa Clarita, CA 91355
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tiffany.townsend@trimedortho.com
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info@vioptix.com
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www.vioptix.com

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nervesurgery@wustl.edu
Peripheral Nerve Surgery is an open-access educational website that provides valuable information for healthcare providers treating complex peripheral nerve trauma. Presented are concepts of nerve anatomy/physiology, evaluation techniques/management strategies, and surgical options. The surgical options include information on nerve-related procedures, which are supported by an extensive surgical tutorial video library.
nervesurgery.wustl.edu

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Booth #13
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Chicago, IL 60602
Phone: 312-263-7150
kristagreco@isms.org
The World Society for Reconstructive Microsurgery is devoted to stimulating and advancing the art of microsurgery and thereby improve and elevate the standards of practice in this field of surgical endeavor. Advantages to membership include networking and leadership opportunities, reduced rates for society meetings, Journal of Reconstructive Microsurgery subscription and online access to the membership.
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The DermaClose® RC Continuous External Tissue Expander is an effective way to reduce the surgical burden when treating complex wounds. This unique external tissue expander facilitates the closure of wounds by continuously expanding the skin around a wound until it has stretched enough to enable the wound edges to be sutured closed.
www.dermaclose.com
Educational Resources

PRE-SALE – ASRM 2012 Comprehensive Hand Surgery Review Course DVD ($175)

Place your order now for the 2012 Comprehensive Hand Surgery Review Course DVD that will be recorded at this year’s annual meeting. Chaired by Sheel Sharma, MD and covering 12 topics, this DVD will serve as a valuable resource. Please visit the registration desk to reserve your DVD today. DVDs ordered will be delivered to you in early spring 2012, after the meeting.

ASRM Historical DVD “The First Twenty Years” ($25 - Limited Quantities)

A DVD entitled “The First Twenty Years” is available for purchase. This one hour documentary has been produced in honor of the 20th Anniversary of the esteemed American Society for Reconstructive Microsurgery and documents the evolution of microsurgery; with commentary from pioneers such as Harry Buncke, Robert Acland and Jim Urbaniaik. The video includes the experimental and clinical history of replantation described vividly by Susumu Tamai. The timeline takes the viewer through a rich history of experimental, scientific and clinical development of the practice of microsurgery from its infancy and into the modern era. The scope of the video highlights the spectrum of techniques, including composite tissue allotransplantation, described by one of the American pioneers of this technique Warren Breidenbach. The video is a living heritage of our exciting specialty and would benefit medical students, residents, fellows, practicing physicians and probably most importantly our patients. This documentary is a wonderful resource of information about microsurgery and certainly will inspire members to make further progress in the arena of reconstructive microsurgery. To order “The First Twenty Years” DVD, please see the registration form in this registration brochure. Ordered DVD’s will be mailed directly once they have been purchased.

ASRM 2010 Masters Series in Microsurgery ($50 - Limited quantities)

The American Society for Reconstructive Microsurgery is pleased to present Part V of the “Masters’ Series in Microsurgery.” The 2010 Masters Series in Microsurgery highlighted complications and problems as seen by the experts in the field. An international panel of renowned Masters in Microsurgery presented disasters they had created, disasters they had inherited, and ways to avoid disasters. Ordered DVD’s will be mailed directly once they have been purchased. Limited quantities available.

ASRM 2011 Masters Series in Microsurgery ($50 - Limited quantities)

The American Society for Reconstructive Microsurgery is pleased to present Part VI of the “Masters’ Series in Microsurgery.” The 2011 Masters Series in Microsurgery highlighted complications and problems as seen by the experts in the field. An international panel of renowned Masters in Microsurgery presented disasters they had inherited, and ways to avoid disasters. Ordered DVD’s will be mailed directly once they have been purchased. Limited quantities available.

Networking Events

Networking events are offered to promote collaboration in a social environment, and to enhance your meeting experience. Many of the events are included in your registration fee, and we encourage you to purchase tickets for your guests for all networking events. We recommend that you purchase guest tickets in advance, as they will be available on a very limited basis at the meeting. Attendee name badge or a guest ticket is required for all social events.

AAHS “Wine with the Wizards” Reception
Wednesday, January 11  5:00 pm – 6:00 pm  Penthouse Suite 180
This late afternoon event was created for young hand surgeons and therapists (in practice five years or less) as well as those still in training to come and meet some of the seasoned AAHS board members. Enjoy a glass of wine and the opportunity to mingle with leaders in the field of hand surgery. Event includes hosted beverages and light appetizers.

AAHS Welcome Reception
Wednesday, January 11  6:30 pm – 8:30 pm  Veranda & Veranda Terrace
Time to catch up with friends, network, and make new contacts within the hand surgery association. Hosted beverages and light appetizers.

AAHS Annual Meeting Dinner Dance
Friday, January 13  7:00 pm – 10:00 pm  Summerlin ABEF
Join your fellow AAHS members, including the President and board members in a fun filled evening of dinner and dancing. Hosted dinner, beverages and musical entertainment.

AAHS/ASRM Golf Tournament
Saturday, January 14  12:00 pm  Depart / 12:30pm  Shotgun Start
Arroyo at Red Rock Country Club is an Arnold Palmer Signature course and is the only course at Red Rock Country Club open to the public. Stretching 6,857 yards and playing the Arroyo is a rare mix of compelling design and exceptional beauty. Bold bunkering, dramatic water hazards and the stark contrast of emerald greens against the tanned desert mountain, make the Arroyo as visually striking as it is challenging. This links style layout with Bermuda grass fairways and Bentgrass greens will challenge every level of player. It has five sets of tee boxes to suit all golfers’ abilities. The Arroyo Course plays 6,433 yards from the middle tees and is a par 72. Lunch will be provided on carts.

ASPN/ASRM Welcome Reception
Saturday, January 14  6:00 pm – 7:30 pm
Cost: 1 ticket included in ASPN and ASRM registration.
Additional adult tickets available @ $60 each; tickets for children and young adults ages 5 - 17 available @ $30 each and includes 2 drink tickets.
Gather in the Pavilion to greet fellow attendees and enjoy some musical entertainment. This casual reception will be sure to set the tone for the days of learning ahead.

ASRM Poster & Exhibits Luncheon
Sunday, January 15  12:15 pm – 1:15 pm
Join us for lunch and view fellow attendees’ poster presentations while mingling amongst our organizations supporters. Poster authors will be available for discussion during this dedicated time.

ASRM VEGAS-STYLE
Monday, January 16  7:00 pm – 10:00 pm
Cost: 1 ticket included in ASRM registration.
Additional adult tickets available @ $100 each; tickets for children and young adults ages 5 - 17 available @ $50 each and includes 2 drink tickets.
The ASRM annual social event will once again be one not to miss! This Las Vegas-style evening lineup includes dinner, dancing, craps gaming, roulette, billiards and foosball tables. To satisfy our party goers who are a bit less adventurous, we'll entertain them with some close up magic.

ASRM Guest Fee
Have your guest or spouse join you for the ASRM social events, breakfasts, and lunches during the official dates of the ASRM Meeting (Saturday-Tuesday). Please see ASRM daily schedule for details. ASRM guests are not eligible to claim CME credit. Any attendee that plans to attend general sessions and claim CME credit must be a healthcare professional and register as a regular attendee. Cost $250 per ASRM guest.
Future Annual Meeting Locations

AAHS
2013 Annual Meeting
January 9 – 12, 2013
Naples Grande Resort
Naples, Florida

2014 Annual Meeting
January 8 – 11, 2014
Grand Hyatt Kauai
Kauai, Hawaii

2015 Annual Meeting
January 21-24, 2015
Atlantis
Paradise Island, Bahamas

ASPN
2013 Annual Meeting
January 11 – 13, 2013
Naples Grande Resort
Naples, Florida

2014 Annual Meeting
January 10 – 12, 2014
Grand Hyatt Kauai
Kauai, Hawaii

2015 Annual Meeting
January 23-25, 2015
Atlantis
Paradise Island, Bahamas

ASRM
2013 Annual Meeting
January 12 – 15, 2013
Naples Grande Resort
Naples, Florida

2014 Annual Meeting
January 11 – 14, 2014
Grand Hyatt Kauai
Kauai, Hawaii

2015 Annual Meeting
January 24-27, 2015
Atlantis
Paradise Island, Bahamas
2011-2012 BOARD OF DIRECTORS

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<td>Susan Michlovitz, PT, PhD, CHT</td>
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2011-2012 HSE BOARD

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Please join us in thanking the AAHS Committee members for their work in 2011.

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Stephen Sullivan, MD and Evan Lyons, MD 2010
Michael Hayton, BSc 2011

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Now in its 6th year, HAND, the Journal of the American Association for Hand Surgery (AAHS), is thriving and is currently circulated on a quarterly basis to almost 1,400 individual surgeons, therapists, and hand care professionals and included in the libraries of over 4,300 institutions worldwide. HAND is indexed in PubMed Central and is a unique international peer reviewed journal which combines multidisciplinary expertise from surgical, medical, hand therapy and other health care professional specialties to advance the quality of care and health of patients with hand and upper extremity pathologies.

HAND publishes on topics related to the management of pathologies in the hand and upper extremity, and will consider Surgery Articles, Hand Therapy Articles, Multimedia Articles, Review Articles, Invited Book Reviews, Correspondence and Brief Communications, and Letters To The Editor.

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Symposium

Thursday January 12, 2012
12:40 pm – 2:30 pm  Lunch Symposium
Supported by Auxilium

XIAFLEX® (collagenase clostridium histolyticum) Case Series Workshop
XIAFLEX® is a pharmacologic, nonsurgical procedure approved by the FDA for the treatment of adult patients with Dupuytren's contracture with a palpable cord. Appropriate patient selection and cord anatomy are important factors when considering the use of XIAFLEX®. This workshop will include an overview of efficacy and safety data for XIAFLEX®, followed by 2 case study presentations in which XIAFLEX® is administered. Each case will include a description of disease and patient characteristics, patient education, the injection procedure, the finger extension procedure, post-procedure care, and patient outcomes, followed by a brief, case-specific question and answer session. This workshop is appropriate for physicians experienced in the treatment of Dupuytren's contracture.

2:00 pm – 4:00 pm  Hands-On Skills Lab
Supported by MicroAire

This concentrated two-hour cadaver-based bioskills course provides the training required to perform ECTR surgery using MicroAire's SmartRelease™ECTR system. Surgeons will have the opportunity to view a brief, pre-taped, fully narrated, live-patient ECTR procedure performed by Thomas Trumble, MD as well as observe the technique in-person as demonstrated on a cadaver specimen by a faculty surgeon. Additionally, participants will have the chance to perform the demonstrated technique on their own cadaver specimen as well as observe at least two other surgeons.

2:00 pm – 4:00 pm  Hands-On Skills Lab
Supported by Skeletal Dynamics

Learn about the latest advancements in prosthesis designs for upper extremity surgery. The GEMINUS Fossa Specific Plate features a unique dual head design that improves fit to the volar radial surface, alleviating the potential for flexor tendon injuries while providing the scaphoid and lunate fossa with optimized subchondral support.

Also featured is the revolutionary ALIGN Radial Head System designed to restore the kinematics of the native anatomy, specific to each patient through the proprietary alignment instrumentation. Incorporating a long stem for solid fixation, the prosthetic head offers the versatility of a bipolar system during final positioning, then locking permanently into a monoblock prosthesis. Truly a paradigm shift in upper extremity surgery based on extensive clinical experience.

2:00 pm – 4:00 pm  Hands-On Skills Lab
Supported by Integra Life Sciences

Please join Integra for a hands-on cadaver bioskills course focused on endoscopic cubital tunnel release using the market leading EndoRelease™ Cubital Tunnel Release System.

This course will feature a review of the surgical technique and benefits of the system, led by faculty surgeon Tyson Cobb MD. Participants attending the course will be provided training and offered the opportunity to perform the technique on their own cadaver specimen.
Educational Overview
The American Association for Hand Surgery Annual Meeting brings together health care professionals from North America and abroad for a three-day continuing education program featuring the best evidence of the practice of hand and upper extremity health care. The program is multifaceted and includes almost 25 instructional courses, numerous panel discussions and case-based programs, and free papers selected by a panel of experts. The learner will gain insight into both common and complex problems of the upper extremity, understand indications for surgery, therapy, outcomes of each, and potential complications of intervention.

Intended Audience
The program is intended for health care professionals involved in the assessment and management of a wide variety of common and complex conditions of the hand and upper limb.

Learning Objectives
Following completion of this activity, participants will be able to:
- Discuss clinical and basic scientific research on hand and upper extremity problems.
- Integrate principles of hand therapy with surgical management of hand and upper extremity problems.
- Evaluate surgical and nonsurgical principles of managing common hand and upper extremity problems.
- Compare the intellectual discourses through an integrated program with the related surgical societies (ASRM and ASPN) and resolve conflicts.
- Implement enhanced management of fractures, arthritis and congenital problems.
- Compare clinical and nonclinical hand therapy issues for a variety of hand problems and fractures.

ABMS Core Competencies
This program will address the following ACGME/ABMS Competencies:
- Patient Care and Procedural Skills
- Medical Knowledge
- Practice-Based Learning and Improvement
- Systems-Based Practice

Accreditation Statement
This activity has been planned and implemented in accordance with the Essential Areas and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint sponsorship of the American Society of Plastic Surgeons (ASPS) and the American Association for Hand Surgery (AAHS). The ASPS is accredited by the ACCME to provide continuing medical education for physicians.

Designation Statement
The ASPS designates this live activity for a maximum of 22.25 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

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The ASPS requires all faculty, authors, planners, reviewers, managers, and other individuals in a position to control or influence the content of an activity to disclose all relevant financial relationships or affiliations. All identified conflicts of interest must be resolved and the educational content thoroughly vetted by ASPS for fair balance, scientific objectivity, and appropriateness of patient care recommendations. The ASPS also requires faculty/authors to disclose when off-label/unapproved uses of a product are discussed in a CME activity or included in related material.

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American Association for Hand Surgery

DAY-AT-A-GLANCE

Wednesday, January 11, 2012

6:00am – 5:00pm  Speaker Ready Room  Willows
6:30am – 3:00pm  Registration  Registration Desk
6:30am – 7:00am  Continental Breakfast  Veranda

Specialty Day Program: Hand Trauma-Playing the Hand You’re Dealt

7:00am – 8:00am  AAHS Instructional Courses
101 Management of Symptomatic Instability of the Distal Radioulnar Joint  Veranda A
102 Distal Radius Fractures: Basic Concepts  Veranda B
103 Advanced Techniques in Wrist and Thumb CMC Arthroscopy  Veranda C
104 Fracture-Dislocations of the PIP Joint  Veranda D
105 Update on Flexor Tendon Injury Management (ABPS MOC-PS®-approved)  Siena
106 Advances in Hand Transplantation  Trails

8:10am – 8:20am  President and Specialty Day Chair Welcome  Summerlin ABEF
8:20am – 8:22am  Role of the Surgeon Accompanying Vargas Award Therapist  Summerlin ABEF
8:22am – 8:30am  Vargas Award Recipient  Summerlin ABEF
8:30am – 9:30am  Panel: Management of the Mangled Hand  Summerlin ABEF
9:30am – 10:30am Panel: Treating Hand Trauma in an Austere Environment  Summerlin ABEF
10:30am – 10:50am Coffee Break  Summerlin Foyer
10:50am – 11:50am Panel: Prevention and Management of Hand Stiffness After Trauma  Summerlin ABEF
11:50am – 12:30pm Invited Guest Lecture  James Chang, MD  Summerlin ABEF
12:30pm – 5:00pm Hands-On Development Workshop  Veranda AB
Surgeons Workshop: Principles and Application of Internal Fixation in the Hand
Therapist Workshop: Advanced Splinting Techniques in the Hand and Wrist  Veranda C
5:00pm – 6:00pm  “Wine with the Wizards” Reception  Penthouse Suite 180
6:30pm – 8:30pm Welcome Reception  Veranda & Veranda Terrace
Specialty Day Program: Hand Trauma – Playing the Hand You’re Dealt

6:30 am – 7:00 am  Continental Breakfast
7:00 am – 8:00 am  Instructional Courses

101 Management of Symptomatic Instability of the Distal Radioulnar Joint

Chair: Jeffrey A. Greenberg, MD
Instructors: Thomas B. Hughes, MD; David Bozentka, MD; Brian D. Adams, MD; Paulo Henrique Ruschel, MD; Susan Michlovitz, PT, PhD, CHT

Instability of the DRUJ can develop acutely after injury or may develop insidiously after bony misalignment or soft tissue laxity. The condition can be difficult to diagnose and treat. The course will focus on clinical and radiographic assessment of DRUJ stability and various open and arthroscopic methods of treatment of acute injuries. The role of tendon reconstruction and osteotomy for chronic instability will also be explained. New techniques of splinting and therapy for operative and non-operative cases will be discussed.

Objectives: Following this session, the participant will be able to:
1. Identify clinical and radiographic features and distinguish instability of the DRUJ from other cause of ulnar-sided clicking of the wrist.
2. Formulate a treatment plan for acute and chronic DRUJ instability.
3. Compare arthroscopic versus open surgical techniques for treating DRUJ instability.
4. List rehabilitation options for acute injuries and after surgical management.

102 Distal Radius Fractures: Basic Concepts

Chair: John S. Taras, MD
Instructors: Theresa O. Wyrick, MD; Alex A. J. Kocheta, MD; Steven L. Moran, MD; Antonio Lourenco Severo, MD; Leila Maria Abdalla, OT, CHT

Fractures of the distal radius are among the most common injuries seen in a hand clinic. This course is aimed at hand surgeons who have trained in specialties other than orthopedic surgery and is intended to cover basic principles of treatment of distal radius fractures. The course will cover classification, common fracture patterns, interpretation of plain radiographs and acceptable parameters of reduction as well as role of therapy after casting or surgery. Cases will be used to illustrate selection of appropriate treatment modality-closed reduction and casting, external fixation and plating.

Objectives: Following this session, the participant will be able to:
1. Explain the normal anatomy of the distal radius and radiographic fracture patterns.
2. Discuss non-operative management and indications for surgery.
3. Explain surgical approaches and compare different surgical options.
4. Give an overview of rehabilitation after distal radius fractures.

103 Advanced Techniques in Wrist and Thumb CMC Arthroscopy

Chair: William B. Geissler, MD
Instructors: Randall W. Culp, MD; Cesar Dario Oliveira Miranda, MD; Tyson Cobb, MD; Mark S. Rekant, MD

This course is an advanced course aimed at surgeons who are familiar with basic techniques of small joint arthroscopy. The faculty will cover new portals, procedures such as TFCC repair to bone and arthroscopy assisted excision arthroplasty or arthrodesis and fracture reduction in the wrist. The portals and techniques of management of thumb basal joint arthritis will also be discussed.

Objectives: Following this session, the participant will be able to:
1. Discuss the indications for use of dorsal and volar portals for wrist arthroscopy.
2. Explain the technique of TFC repair to bone using arthroscopic techniques.
3. Compare arthroscopic proximal row carpectomy to open surgery.
4. List portals and indications for arthroscopy of the thumb basal joint.

104 Fracture-Dislocations of the PIP Joint

Chair: Peter J. Stern, MD
Instructors: Sudhir Warrier, MS; Greg Couzens, MD; Fabio Azevedo Lima, MD; Ann T. Lund, OTR/L, CHT, CLS

Difficulty in maintaining reduction, delayed presentation and the high incidence of stiffness make fracture dislocations of the PIP joint the most challenging hand injury. The faculty will discuss several closed and open techniques of managing these injuries after acute presentation and present a treatment algorithm. Repair and reconstruction for late presentation using hamate or small metacarpal osteochondral grafts will also be discussed.

Objectives: Following this session, the participant will be able to:
1. Explain initial reduction technique, assessment of reduction and indications for surgery.
2. Compare treatment options, including the indications, techniques and complications of each.
3. Discuss management of untreated injuries presenting late after injury.
4. Describe recent developments in rehabilitation of PIP injuries treated non-operatively and post surgery.

105 Update on Flexor Tendon Injury Management

(ABPS MOC-PA®-approved)

Chair: Prosper Benhaim, MD
Instructors: Nicholas B. Vedder, MD; James Chang, MD; Seth Dodds, MD; Sharon Andruskiwe, PT, CHT

Participation in this course can satisfy the MOC CME requirement of the ABPS practice improvement module, Flexor Tendon Management, for ABPS diplomates if they have uploaded their 10 consecutive cases on the ABPS web site. The course will cover principles and basic science of tendon healing and repair as well as advances in repair techniques and rehabilitation after repair. Prevention and management of complications such as rupture, stiffness and adhesions will be discussed.

Objectives: Following this session, the participant will be able to:
1. Explain recent advances in basic science concepts of flexor tendon healing.
2. Compare different repair techniques and rehabilitation protocols after repair.
Tissue Transplantation

Chair: Linda Cendales, MD
Instructors: Gerald Brandacher, MD; Christina Kauffman, PhD; Scott Frey, PhD

This course will review current evidence to support indications, medical supportive therapy and new strategies in composite tissue allotransplantation.

Objectives: Following this session, the participant will be able to:
1. Discuss the current role of tissue transplantation in hand surgery
2. Explain patient selection and medical management of these patients.

8:10 am – 8:20 am President and Specialty Day Chair Welcome

8:20 am – 8:22 am Role of the Surgeon Accompanying Vargas Award Therapist
Robert Schenck, MD
Dept. of Plastic Surgery, Rush University, Section of Hand Surgery, Chicago, IL

8:22 am – 8:30 am Vargas Award Recipient Paula Galaviz, OT

8:30 am - 9:30 am Panel: Management of the Mangled Hand
Moderator: Jesse B. Jupiter, MD; Christine B. Novak, PT, PhD
Invited Panelists: William C. Pedersen, MD; Neil F. Jones, MD; Kristen A. Valdes, OTD, OTR, CHT; Rebecca von der Heyde, PhD, OTR/L, CHT

Management of the mangled hand requires timely and systematic intervention. This panel features experts who deal with this situation on a regular basis and will clarify the approach to successful management of these difficult injuries.

Objectives: Following this session, the participant will be able to:
1. Discuss assessment and prioritize management of various components of serious hand injury.
2. Explain selection of appropriate technique for skeletal stabilization.
3. Discuss options of soft tissue cover plan rehabilitation and discuss prevention of complications.

9:30 am – 10:30 am Panel: Treating Hand Trauma in an Austere Environment
Moderator: Eric P. Hofmeister, MD; Dorit H. Aaron, OTR, MA, CHT, FAOTA
Invited Panelists: Miguel A. Pirela-Cruz, MD; Brian T. Fitzgerald, MD; Lynn Bassini, MA, OTR, CHT; Karla Slater, MS OTR/L

The nature of injuries sustained and available resources on the battlefield are very different from civilian practice. This panel will feature the challenges of war time injuries and how surgeons and therapists work together to restore form and function to our men and women in uniform.

Objectives: Following this session, the participant will be able to:
1. Discuss military hand injuries and their difference from civilian wounds.
2. Explain techniques to provide optimal care with limited resources.
3. Discuss the psychosocial aspects of recovery from wounds sustained in conflict.
Therapist Workshop
Advanced Splinting Techniques in the Hand and Wrist

Chair: Rebecca von der Heyde, PhD, OTR/L, CHT
Co-Chair: Sharon Andruskiwec, PT, CHT
Instructors: Georgette A. Fogg, OTR/L, CHT; Kristen A. Valdes, OTD, OTR, CHT; Theresa L. Narehood OTR/L, CHT; Dorit H. Aaron, OTR, MA, CHT; Eric P. Hofmeister, MD

This workshop will review evidence-based orthotic selection and fabrication for common, yet complex diagnoses following procedures of the upper extremity. Clinical reasoning will be explored for orthotic selection and customization based on multiple factors: anatomy, biomechanics, surgical procedures, and clinical evidence.

Objectives: Following this workshop, the participant will be able to:
1. Explain the rationale for orthotic selection and splinting customization based on anatomy, biomechanics, surgical procedures, and clinical evidence.
2. List the evidence-based information available on splinting the wrist and hand.

5:00 pm – 6:00 pm  “Wine with the Wizards” Reception
See description, page 15.

6:30 pm – 8:30 pm  Welcome Reception
See description, page 15.
### American Association for Hand Surgery

#### DAY-AT-A-GLANCE

**Thursday, January 12, 2012**

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<td>6:30am – 1:40pm</td>
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<td>109 Sports Injuries in the Hand and Wrist</td>
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<td>110 Management of Complications of Hand Fractures</td>
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<td>111 Basics of Shoulder and Elbow Evaluation</td>
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<td>112 Evaluation and Management of the Cold Hand</td>
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<th>Time (8:00am – 8:15am)</th>
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<td>8:15am – 8:30am</td>
<td>Debate: Radial Club Hand: To Centralize is to Penalize</td>
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<td>8:30am – 8:45am</td>
<td>Debate: Silicone is the Gold Standard for PIP Joint Replacement</td>
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<td>8:45am – 9:30am</td>
<td>Concurrent Panel A: Single Digit Dupuytrens Contracture: Many Treatment Options, Still No Cure</td>
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<td>9:30am – 10:30am</td>
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<td>Coffee Break with Exhibitors</td>
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<tr>
<td>11:00am – 11:10am</td>
<td>Brazilian Hand Society President Address</td>
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<tr>
<td>11:10am – 11:30am</td>
<td>Brazilian Hand Society Session</td>
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<td>11:30am – 12:00pm</td>
<td>Presidential Address</td>
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<tr>
<td>12:00pm – 12:40pm</td>
<td>Invited Guest Lecture: Haptics: Science, Technology and Applications Mandayam A. Srinivasan, PhD</td>
<td>Summerlin ABEF</td>
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<tr>
<td>12:40pm – 1:40pm</td>
<td>Lunch with Exhibitors</td>
<td>Charleston Ballroom</td>
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<td>12:40pm – 2:30pm</td>
<td>Lunch Symposium</td>
<td>Veranda</td>
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<td>2:00pm – 4:00pm</td>
<td>Hands-On Industry Labs</td>
<td>Veranda ABC</td>
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3. Explain and outline a timeline for the athlete to return to sport.

2. Discuss treatment options—splinting and surgical for treating sports injuries.

1. Identify important issues for ability to return to play for each individual sport.

Objectives:

- Improvement in implant design and osseous fixation has resulted in an increasing clinical application of total wrist arthroplasty. Learn current indications and applications from experts in the field. The course will cover implant design and mechanics, patient selection, technical tips during surgery and salvage of failures.

- Cold intolerance of the hands can result from various causes including collagen disorders, vibration exposure, ulnar artery thrombosis or as a primary disease. The faculty will discuss evaluation of the patient and appropriate investigations and discuss medical and surgical management.

Objectives:

1. Explain the vascular anatomy of the hand relative to pedicled flaps.
2. Compare the different flap options and discuss indications for each flap.

- Managing complications of hand fractures treated conservatively or operatively is a challenge. The experienced faculty will discuss issues of stiffness, malunion, nonunion and bone loss and osteomyelitis-prevention and management. All aspects of management will be covered including initial assessment, additional imaging techniques, timing of intervention, surgical options and expected outcomes.

Objectives:

1. Explain the design rationale and osseous fixation of current generation of wrist implants.
2. Discuss the principles of treatment of stiffness, infection and nonunion.
3. Draw preoperative plan for correction of bony deformity.

Chair: Jesse B. Jupiter, MD
Instructors: Asif M. Ilyas, MD; Sudhir Warrier, MS; David C. Ring, MD; Milton Bernardes Pignataro, MD; Lynn Festa, OTR/L, CHT

107 Wrist Arthroplasty Update
Chair: Brian D. Adams, MD
Instructors: Sumeed Talwalkar, MD; Martin Chochole, MD; Amit Gupta, MD; Terri Wolfe, CHT

108 Local Flaps for Finger Defects
Chair: Sheel Sharma, MD
Instructors: Hein Ter Linden, MD; Tsu-Min Tsai, MD; Warren C. Hammert, MD; Alvaro Baik Cho, MD

109 Sports Injuries in the Hand and Wrist
Chair: Thomas Hunt III, MD
Instructors: David Bozentka, MD; John S. Taras, MD; Greg Couzens, MD; Kevin D. Plancher, MD; Jennifer L. Thompson, MPT, CHT

Objectives:

1. Explain the causes of cold intolerance of the hand.
2. List investigations for evaluation.
3. Discuss patient selection and indications for surgery.
4. List complications and discuss management.

Chair: Michael W. Neumeister, MD
Instructors: Peter M. Murray, MD; Jeffrey B. Friedrich, MD; Douglas M. Sammer, MD; Michael Saint-Cyr, MD

Objectives:

1. Examine the shoulder and elbow and demonstrate physical signs.
2. Diagnose common afflictions of these joints on the basis of clinical features.

Chair: Craig S. Phillips, MD
Instructors: Jeffrey W. Johnson, MD; Rui Sergio Monteiro de Barros, MD; Thomas B. Hughes, MD; Paul Brach, MS, PT, CHT

Patients seen in the hand clinic often have complaints in the shoulder or elbow that require evaluation. This course is intended for surgeons and therapists who are less familiar with evaluation of the shoulder and elbow. The faculty will cover physical examination of the shoulder and elbow and clinical features of common conditions affecting these joints.

Objectives:

1. Explain the causes of cold intolerance of the hand.
2. List investigations for evaluation.
3. Compare the different treatment methods and discuss complications of each.
Centralization of the hand on the forearm for the management of radial club hand remains controversial. This debate by experts explores the advantages and potential shortfalls of centralization procedure.

Objective: Following this debate, the participant will be able to: Indications and complications of centralization procedure for radial deficiency.

8:45 am – 9:30 am Concurrent Panel A
Single Digit Dupuytrens Contracture: Many Treatment Options, Still No Cure
Moderator: Peter M. Murray, MD; Terri Skirven, BSC, OT
Invited Panelists: Jeffrey A. Greenberg, MD; Alex A. J. Kocheta, MD; Nash H. Naam, MD; Roger K. Khouri, MD

The recent introduction of collagenase injection as a treatment option for dupuytrens contracture has renewed an interest in the disease. The panel of experts will review and compare different treatment options and their appropriate indications.

Objectives: Following this panel, the participant will be able to:
1. Explain the mechanism of action of collagenase.
2. Discuss the rationale of treatment of primary and recurrent disease.
3. Compare the different treatment methods and discuss complications of each.

8:45 am – 9:30 am Concurrent Panel B
Wrist Arthritis-Fuse or Replace?
Moderator: Prosper Benhaim, MD
Invited Panelists: Randall W. Culp, MD; Craig S. Phillips, MD; Brian D. Adams, MD; Amit Gupta, MD

Walking the fine line between motion and pain relief, surgeons have several treatment options for management of the painful arthritic wrist - total or partial fusion and replacement. Based on current evidence the indications, outcomes and complications of each outcome will be discussed.

Objectives: Following this panel, the participant will be able to:
1. Identify different patterns of post-traumatic and degenerative wrist arthritis.
2. Explain indications for surgery for the arthritis wrist.
3. Discuss current role of wrist replacement arthroplasty.
#8 Treatment of Congenital Pseudarthrosis of the Forearm (CPF) with Vascularized Fibular Graft (VFG): Evaluation of the Results After a Minimum 15 Years of Follow-up – Cohort Study
Ramesh Mattar Junior, MD, PhD; Tiago Guedes da Motta Mattar, MD; Enygdio Jose Leonil Paula, MD, PhD; Marcelo Rosa Rezende, MD, PhD; Teng Hsiang Wei, MD, PhD; Luciano Ruiz Torres, MD; Luiz Koiti Kimura, MD; Mateus Saito, MD
Department of Orthopedic - Hand and Microsurgery Division, University of Sao Paulo, Sao Paulo, Brazil

10:06 am – 10:10 am Discussion

#9 Functional Testing and Outcome Measures in Children with Isolated Thumb Aplasia Treated by Pollicization
David T. Netscher, MD; Oluseyi Allu, MD; Brinkley Sandvall, MD; Kimberly Staines, OTR, CHT; John Thornby, PhD
1Department of Orthopedic Surgery and Division of Plastic Surgery, Baylor College of Medicine, Houston, TX; 2Physical Medicine, VA Medical Center, Houston, TX; 3Internal Medicine, VA Medical Center, Houston, TX

10:14 am – 10:18 am

#10 Botulinum Toxin A as an Adjunct in Digital Replantation
Nicholas Bastidas, MD; Oriana Cohen; Zhi Vang Ng, MD; Oren Z. Lerman, MD; Nicholas Crosby, MD; Donald H. Lalonde, BSc, MSc, MD; Kevin A. Calder, BSc, MD
1Institute of Reconstructive Plastic Surgery, New York University School of Medicine, New York, NY; 2Plastic Surgery, Lennox Hill Hospital, New York, NY

10:18 am – 10:22 am

#11 Comparison of the Sensory Modality Effects of Bupivacaine Digital Nerve Blocks with and without Epinephrine: A Level One Study
Kevin A. Calder, BSC, MD; Bryan Chung, MD, PhD; CM O’Brien, BSc; Donald H. Lalonde, BSC, MSc, MD
1Division of Plastic Surgery, Dalhousie University, Halifax, NS, Canada; 2Plastic Surgery Dept, Dalhousie University, Saint John, NB, Canada

10:22 am – 10:26 am

#12 Management of Ring Injuries of the Finger: Microsurgical Salvage, Reconstruction, and Long-Term Follow-Up
Nicholas Crosby, MD; John Hood; Graeme Baker, MD; John Lubahn, MD
1Orthopaedics, UPMC Hamot, Erie, PA; 2Orthopaedic, UPMC Hamot, Erie, PA; 3Plastic Surgery, Georgia Institute for Plastic Surgery, Savannah, GA

10:26 am – 10:30 am Discussion

9:30 am – 10:30 am Concurrent Paper Session B
Moderator: Nash H. Naam, MD; Paul Brach, MS, PT, CHT (4 minute presentations)

9:30 am – 9:34 am

#13 A Biomechanical Analysis of Barbed Suture Use in Flexor Tendons
Michael J. Terry, MD; Michael Matthew, MD
Plastic Surgery, Yale University, New Haven, CT

9:34 am – 9:38 am

#14 Flexor Tendon Tissue Engineering: Acellularization of Human Flexor Tendons Reduces Immunogenicity in vivo
Shyam S. Raghavan; Colin Woon; Armin Kraus; Kai Megerle; Matthew Choi; Brian Pridgen; Hung Pham; James Chang, MD
Plastic & Reconstructive Surgery, Stanford University, Stanford, CA

9:38 am – 9:42 am

#15 Why Do Corticosteroids Help In Stenosing Tenosynovitis? – A Histologic Examination of the Tenosynovium
Emmanuel Atiemo, MD; Jennings; Jennings; Jasvir, S. Khurana, MD; John Gaughan, PhD; Asif M. Ilyas, MD
1Orthopaedics, Temple University Hospital, Philadelphia, PA; 2School of Medicine, Temple University, Philadelphia, PA; 3Pathology, Temple University Hospital, Philadelphia, PA; 4Rothman Institute, Thomas Jefferson University, Philadelphia, PA

9:42 am – 9:46 am

9:46 am – 9:50 am Discussion

10:06 am – 10:10 am

#16 Clinical Outcomes of Zone II Flexor Tendon Repair Depending on Mechanism of Injury
Trevor Starnes, MD, PhD; Rebecca J. Saunders, CHT; Kenneth R. Means Jr, MD
1Union Memorial Hospital - Orthopaedic Hand Surgery, The Curtis National Hand Center, Baltimore, MD; 2Union Memorial Hospital - Hand Therapy, The Curtis National Hand Center, Baltimore, MD

9:50 am – 9:54 am

#17 Ultrasonographic Assessment of Transversal Tendon and Nerve Dynamics in CTS Patients Versus Healthy Controls
Richard van Balen; Jan-Wiebe H. Korstanje, MSc; Marjan Scheltens-de Boer, MD; Joleen H. Blok, PhD; Harm P. Slippert, PhD; Henk J. Stam, MD, PhD; Steven E.R. Hovius, MD, PhD; Ruud W. Selles, PhD
1Department of Rehabilitation Medicine and Physical Therapy, Erasmus MC, University Medical Centre Rotterdam, Rotterdam, Netherlands; 2Department of Rehabilitation Medicine and Physical Therapy & Department of Plastic and Reconstructive Surgery, Erasmus MC, University Medical Centre Rotterdam, Rotterdam, Netherlands; 3Department of Clinical Neurophysiology, Erasmus MC, University Medical Centre Rotterdam, Rotterdam, Netherlands; 4Department of Plastic and Reconstructive Surgery, Erasmus MC, University Medical Centre Rotterdam, Rotterdam, Netherlands

9:54 am – 9:58 am

#18 Outcomes of Sensory Nerve Repair: Sub-group Analysis from a Multicenter Study on Processed Nerve Allografts
Darrell Brooks, MD
The Bunche Clinic, San Francisco, CA

9:58 am – 10:02 am

#19 Transfer of the Abductor Pollicis Brevis Tendon to Flexor Carpi Radialis for the Restoration of Tip-Pinch in Severe Carpal Tunnel Syndrome
Michael V. Birman, MD; Jonathan R. Danoff, MD; Melvin P. Rosenwasser, MD
Trauma Training Center, Department of Orthopaedic Surgery, Columbia University Medical Center, New York, NY

10:02 am – 10:06 am

#20 Novel 3D Quantitative Analysis of the Volar Plate and its Attachments at the Proximal Interphalangeal Joint
Sze Wei Justin Lee, BSc; Zhi Yang Ng, MBChB; Quentin Fogg, BSc, PhD
1Medical School, University of Glasgow, Glasgow, United Kingdom; 2Anatomy, University of Glasgow, Glasgow, United Kingdom

10:06 am – 10:10 am Discussion

10:10 am – 10:14 am

#21 Effect of Preoperative Ulnar Nerve Subluxation on Outcome Following Endoscopic Cubital Tunnel Release
Tyson Cobb, MD; Peter Merrell, PA-C; Jon Lemke, PhD
1Director of Hand Surgery, Orthopaedic Specialists, PC, Davenport, IA; 2Orthopaedic Specialists, Davenport, IA; 3Biostatistics, Genesis Medical Center, Davenport, IA

10:14 am – 10:18 am

#22 Revision Surgery for Failed Carpal Tunnel Release
SuRAk Eo, MD; HeeChang Ahn, MD, PhD; Neil Ford Jones, MD
Hand Surgery, University of California Irvine, Orange, CA

10:18 am – 10:22 am

#23 Cold Intolerance After Median, Ulnar or Radial Nerve Injury
SuRAk Eo, MD; HeeChang Ahn, MD, PhD; Neil Ford Jones, MD
Hand Surgery, University of California Irvine, Orange, CA

10:22 am – 10:26 am
#24 Targeted Lumbrical Splinting and Stretching Versus Standard Treatment on Functional Outcomes in Persons with Mild to Moderate Carpal Tunnel Syndrome
Krissy K. Moehling, MPH; Elaine N. Rubinstein, PhD; Ronit Wollstein, MD; Norman P. Gustafson, MS, CHT, OTR/L; Mark E. Baratz, MD; Nancy A. Baker, ScD, MPH, OTR/L
1 Department of Occupational Therapy, University of Pittsburgh, Pittsburgh, PA; 2 Department of Measurement and Evaluation of Teaching, University of Pittsburgh, Pittsburgh, PA; 3 Department of Orthopedic Surgery, University of Pittsburgh Medical Center, Pittsburgh, PA; 4 Allegheny Orthopedics Association, Allegheny General Hospital, Pittsburgh, PA

10:26 am – 10:30 am Discussion

10:30 am – 10:55 am Coffee Break with Exhibitors

11:00 am – 11:10 am Brazil Hand Society President Address
Paulo Pires Randal, MD; Anderson Vieira Monteiro, MD

11:10 am - 11:30 am Brazilian Hand Society Session
(4 minute presentations)

11:10 am – 11:14 am #25 Biomechanics and Histological Analysis in Rabbit Flexor Tendons Repaired Using Three Suture Techniques (4 and 6 strands) with Early Active Mobilization
Antônio Lourencio Severo, MD, MSc; Rodrigo Arenhart, PT, MSc; Daniela Silveira, MD, MSc; Aluízio Octávio Vargas Ávila, BE, PhD; Francisco José Berral, MD, PhD; Marcelo Barreto Lemos, MD; Paulo César Faiad Piluski, MD; Osvaldério Canfield Lech, MD
1 Center of the Upper Limb Surgery, IOT/RS (Institute of Orthopedics and Traumatology), Passo Fundo, Brazil; 2 Center of Physiotherapy, URI (Regional Integrated University), Erechim, Brazil; 3 Center of Pathology, UPF (University of Passo Fundo), Passo Fundo, Brazil; 4 Laboratory of Biomechanics, UDESC (State University of Santa Catarina), Florianópolis, Brazil; 5 Department of Sports and Computer Science, UPO (University of Pablo de Olavide), Sevilla, Spain; 6 Center of the Upper Limb Surgery, IOT (Institute of Orthopedics and Traumatology), Passo Fundo, Brazil

11:18 am – 11:22 am #26 Bridging Plate for the Treatment of Distal Radius Fractures
Carlos Eduardo Saenz Pacheco; Eduardo Murilo Novak; Giana Silveira Giostri; Cartelli Daniel
Ortopedia, Grupo de Cirurgia da Mão Hospital Universitário Caju - Pontifícia Universidade Católica do Paraná - Curitiba, Brazil

11:22 am – 11:26 am #27 Study Comparing Antibiotic Treatment And Antibiotic Prophylaxis for the Treatment of Open Fractures of the Hand Swanson Type I
Paulo Randal Pires Junior, MD; Paulo Randal Pires, MD; Leandro de Azvedo Figueiredo, MD
1 Orthopedics, Madre Teresa Hospital, Belo Horizonte, Brazil; 2 Orthopedics, Madre Teresa Hospital, Vitoria, Brazil

11:26 am – 11:30 am #28 Toe to Hand Transplantation: 14 Years of Brazilian Experience with 30 Consecutive Cases
Hsiang Wei Teng, MD; Rames Mattar Jr, MD; Marcelo Rosa Resende, MD; Luciano Ruiz Torres, MD
Orthopedic Surgery, University of Sao Paulo, Sao Paulo, Brazil

11:30 am – 12:00 pm Presidential Address
American Association for Hand Surgery

DAY-AT-A-GLANCE

Friday, January 13, 2012

6:00am – 5:00pm  Speaker Ready Room  Willows
6:30am – 5:30pm  Registration  Registration Desk
6:30am – 10:30am  Exhibit Hall Hours  Charleston Ballroom
6:30am – 7:00am  Continental Breakfast  Charleston Ballroom

7:00am – 8:00am  AAHS Instructional Courses
113  “Middle-of-the-Night” Regional Pedicled Flaps for Emergency Coverage of Hand Wounds  Veranda A
114  Reconstruction of the Pediatric Thumb: Congenital and Post-Traumatic  Veranda B
115  Management of Acute and Chronic SL Instability  Veranda C
116  Challenging Proximal Phalangeal Fractures  Veranda D
117  Uncommon Compressive Neuropathies in the Upper Extremity  Siena
118  The Business of Workmen’s Compensation Practice  Trails

8:00am – 8:10am  Hand Surgery Endowment (HSE) President Report  Summerlin ABEF
8:10am – 8:25am  Debate: Professional Practice Guidelines: Critical For Patient Care or ammo for Criticism of Care  Summerlin ABEF
8:25am – 8:40am  Debate: Nerve Conduction Studies are Unnecessary for Treatment of Carpal Tunnel Syndrome  Summerlin ABEF
9:10am – 10:10am  Scientific Paper Session A2  Summerlin ABEF
9:10am – 10:10am  Open Forum Session  Summerlin CD
10:10am – 10:30am  Coffee Break with Exhibitors  Charleston Ballroom
10:30am – 11:00am  Concurrent Scientific Paper Session A3  Summerlin ABEF
11:00am – 12:00pm  Joint AAHS/ ASPN Panel: Evidence-Based Approach to Peripheral Nerve Problems: Things I Don’t Do Anymore and How I Do it Now  Summerlin ABEF
12:00pm - 12:45pm  Danyo Lecture: Digital Education – Where Have All the Books Gone? Terry R. Light, MD  Summerlin ABEF
12:45pm – 1:30pm  Annual Business Meeting (AAHS Members Only)  Summerlin ABEF
1:30pm – 5:50pm  Comprehensive Hand Review Course  Veranda A&B
3:30pm – 3:50pm  Coffee Break  Charleston Foyer
7:00pm – 10:00pm  Annual Meeting Dinner Dance  Summerlin ABEF
116 Challenging Proximal Phalangeal Fractures
Chair: David G. Dennison, MD
Instructors: Tuna Ozuyurekoglu, MD; Victor Cesar Jr., MD; Warren C. Hammert, MD; Karla Slater, MS, OTR/L

Some proximal phalanx shaft and most articular fractures are recognized to be problematic and if not treated appropriately, are associated with disability from malunion or stiffness. This course will focus on problematic fracture patterns that are unstable or unreducible and the faculty will explain techniques of fixation from K wires to screws and plates. Rehabilitation techniques after casting or surgical fixation will also be discussed.

Objectives: Following this session, the participant will be able to:
1. Identify unstable fracture patterns that require surgical stabilization.
2. Compare different techniques of phalangeal fracture fixation.
3. Explain the rehabilitation protocol following surgery or casting.

117 Uncommon Compressive Neuropathies in the Upper Extremity
Chair: Michael W. Neumeister, MD
Instructors: Peter C. Amadio, MD; Matthew M. Tomaino, MD; John D. Lubahn, MD; Rafaela de Souza Cesario, OT, CHT

Evaluation and management of hand numbness or weakness can be challenging when the picture does not fit carpal or cubital tunnel syndrome. The experts in the panel will discuss less common but important compressive neuropathies involving nerves around the plexus, shoulder, elbow and proximal forearm. Tips and tricks for making the diagnosis will be discussed.

Objectives: Following this session, the participant will be able to:
1. Explain the anatomy of nerve compression in the shoulder, elbow and forearm.
2. Discuss clinical features and electrophysiological findings of uncommon neuropathies.
3. List nonoperative treatment options.
4. Explain timing of surgical intervention and surgical approach.

118 The Business of Workmen's Compensation Practice
Chair: Alejandro Badia, MD
Instructors: Eon K. Shin, MD; Michael Bednar, MD; Cynthia Cooper, MA, OTR, CHT

Patients seen under workmen’s compensation plans need more than just medical care - job site evaluations, return to work considerations, impairment rating - the process can get overwhelming. The faculty will explain the nuts and bolts of setting up a successful WC practice and explain terminology such as MMI, FCE and discuss some of the psychological aspects unique to this patient population.

Objectives: Following this session, the participant will be able to:
1. Explain unique issues related to treatment of the workman's compensation patient.
2. Identify the steps in management and return to work after work injury.

8:00 am – 8:10 am  Hand Surgery Endowment (HSE)
President Report
Ronald E. Palmer, MD
8:10 am – 8:25 am
Debate: Professional Practice Guidelines: Critical For Patient Care or Ammo for Criticism of Care
Moderator: David C. Ring, MD
Pro: Michael W. Keith, MD
Con: A. Lee Osterman, MD

National organizations have begun the process of providing guidelines for practice based on available evidence. The aim of this debate is to highlight the benefits of these guidelines and potential pitfalls and legal ramifications of attempting to set standards for practice. Upon completion of this debate, the participant will be able to discuss the advantages of clinical guidelines and the application of these guidelines to clinical practice.

Objectives: Following this debate, the participant will be able to:
- Explain the current role of clinical guidelines.

8:25 am – 8:40 am
Debate: Nerve Conduction Studies are Unnecessary for Treatment of Carpal Tunnel Syndrome
Moderator: Peter C. Amadio, MD
Pro: Brent A. Graham, MD
Con: Steven McCabe, MD

The diagnosis of nerve compression has traditionally been made by careful recording of patient symptoms and detailed physical examination. While critical to the diagnosis in some cases, the role of electrophysiology in management of these patients is controversial. After this debate the participant will be able to explain the indications for use of nerve conduction studies in clinical practice.

Objectives: Following this debate, the participant will be able to:
- Discuss the importance of clinical evaluation and the role of electrophysiological studies for management of carpal tunnel syndrome.

8:40 am – 9:10 am
Moderator: Nicholas B. Vedder, MD
Panelists: Ranjan Gupta, MD; Steven L. Moran, MD; Randip R. Bindra, MD; Allen T. Bishop, MD

There are several options for managing nerve gaps in the fingers ranging from nerve grafting to biological or artificial conduits. The expert panel will explain the benefits and indications of different treatment options for treating digital nerve gaps.

Objectives: Following this debate, the participant will be able to:
1. Explain the essential physiological requirements for the nerve to bridge the gap.
2. Compare different treatment options for digital nerve gap management and applications of each.

9:10 am – 10:10 am Scientific Paper Session A2
Moderators: Michael Bednar, MD; Silmara Nicolaou Pedro da Silva, MSc OTr

(4 minute presentations)

9:10 am – 9:14 am
#30 Divergent Patterns of Trapezial Articular Degeneration in Thumb Carpometacarpal (CMC-I) Arthritis
Sara Van Nortwick, BA; Julia Lee, BS; R. Cheng: Alex Roux; Amy Ladd, MD
Chase Center for Hand Surgery, Stanford University, Stanford, CA

9:14 am – 9:18 am
#31 Patient Satisfaction after Bilateral Thumb Carpal Metacarpal Osteoarthritis Surgery
Arnold B. Alqueza, MD; Fostvedt Sigrid, BA; Jesse B. Jupiter, MD
Orthopaedic Hand and Upper Extremity Service, Massachusetts General Hospital, Boston, MA

9:18 am – 9:22 am
#32 Motion-Preserving Treatment Options for Wrist Arthritis: Proximal Row Carpectomy Versus CLX Fusion, a Novel Method of Intercarpal Arthrodesis
Praveen G. Murthy, AB; Mark L. Wang, MD; Sidney M. Jacoby, MD; A. Lee Osterman, MD; John M. Bednar, MD
The Philadelphia Hand Center, Thomas Jefferson University, Philadelphia, PA

9:22 am – 9:26 am
#33 Distal Radius Hemiarthroplasty Combined with Proximal Row Carpectomy for Arthritis of the Wrist
Scott Gelman, BA; Sidney Jacoby, MD; Randall W. Culp, MD
Department of Orthopaedic Surgery, Thomas Jefferson University Hospital, Philadelphia, PA

9:26 am – 9:30 am
#34 Ulnar Head Implant Arthroplasty as a Treatment for Arthritis of the DRUJ
Brian Adams, MD; John Gaffey, MD
1 Department of Orthopaedics and Rehabilitation, University of Iowa Hospitals and Clinics, Iowa City, IA; 2 Orthopedics, Des Moines Orthopedic Surgeons - East, Des Moines, IA

9:30 am – 9:37 am Discussion

9:37 am – 9:41 am
#35 Analysis of Predynamic and Dynamic Proximal Carpal Row Injuries
Eric Wagner, MD; Robert R. Gray, MD; Sanjeev Kakar, MD
Mayo Clinic, Rochester, MN

9:41 am – 9:45 am
#36 Radiographic Detection of Long Screw Placement During Volar Plating of the Distal Radius
J. Sullivan, MD; Carli Lee Cordell, MD; William Lanzinger, MD; Terry Light, MD; M. Bednar, MD; R. Bindra, MD
Department of Orthopaedics, Loyola Medical Center, Maywood, IL

9:45 am – 9:49 am
#37 Impaired Functional Outcome Associated with Perilunate Injuries of the Wrist
Sanjeev Kakar, MD; MRCS, MBA; Brandon Yuan, MD; Peter Rhee, DO; David Jones, MD; Steven L. Moran, MD
1 Orthopaedics, Mayo Clinic, Rochester, MN; 2 Orthopedic Surgery, Mayo Clinic, Rochester, MN; 3 Orthopaedic Surgery, Mayo Clinic, Rochester, MN; 4 Plastic and Reconstructive Surgery, Mayo Clinic, Rochester, MN

9:49 am – 9:53 am
#38 Treatment of Trigger Finger: Randomized Clinical Trial Comparing the Methods of Corticosteroid Injection, Percutaneous Release, and Open Surgery
Edson Sasahara Sato, MEDICAL, DR; João Baptista Santos, MD; João Carlos Bellioti, MD, PhD; W. M. Albertoni, MD; F. Falappa, MD; Carlos Henrique Fernandes, MD
1 Discipline of Hand and Upper Limb Surgery, Department of Orthopedics and Traumatology, UNIFESP - Universidade Federal de São Paulo, São Paulo, Brazil; 2 Orthopaedic Surgery / Hand Surgery group, Universidade Federal de São Paulo, São Paulo, Brazil; 3 Departamento de Ortopedia e Traumatologia, Universidade Federal de São Paulo, São Paulo, Brazil; 4 Orthopedic Surgery / Hand Surgery Group, Universidade Federal de São Paulo, São Paulo, Brazil

9:53 am – 9:57 am
#39 Biomechanical Analysis of the Distal Metaphyseal Ulnar Shortening Osteotomy
Jeffrey A. Greenberg, MD, MS; Frederick W. Werner, MME, PE; Jared Smith, BA
1 The Indiana Hand to Shoulder Center, Indianapolis, IN; 2 Department of Orthopedic Surgery, Upstate Medical University at Syracuse, Syracuse, NY

9:57 am – 10:10 am Discussion
9:10 am – 9:12 am

**F1. Arthroscopic Treatment of Internal Rotation Contracture and Glenohumeral Dysplasia in Brachial Plexus Birth Palsy**

Scott Kozin, MD; Joshua Abzug, MD; Dan Zlotolow, MD; Alexis Williams, BS; Gerald Williams, MD

1Shriners Hospital for Children Philadelphia, Philadelphia, PA; 2Department of Orthopaedic Surgery, University of Maryland, Baltimore, MD; 3Department of Orthopaedic Surgery, Thomas Jefferson University Hospital - Rothman Institute, Philadelphia, PA

9:12 am – 9:14 am

**F2. UJS: Internal Joint Stabilizer. Elbow Complex Cases**

Jorge Luis Orbay, MD; Igor R. Indriago, MD

The Hand Institute, Miami, FL

9:14 am – 9:16 am

**F3. Use of an Iso-Elastic Tension Band for the Treatment of Olecranon Fractures**

Rebecca A. Rajfer, BS; Jonathan R. Danoff, MD; Ioannis C. Zouzis, MD; Melvin P. Rosenwasser, MD

Department of Orthopaedic Surgery, Columbia University, New York, NY

9:16 am – 9:18 am

**F4. Hydrophilic Polymers Promote Immediate Physiologic Recovery after Nerve Repair with Collagen Tubes**

Gabriel Del Corral, MD; Kevin W. Sexton, MD; L. B. Nanney, PhD; R. Bruce Shack, MD; W. P. Thayer, MD, PhD

Plastic Surgery, Vanderbilt University, Nashville, TN

9:18 am – 9:20 am

**F5. Factors Affecting Outcome of Triceps Motor Nerve Transfer for Isolated Axillary Nerve Injury**

Joo-Yup Lee, MD, PhD; Michelle, F. Kircher, RN; Robert J. Spinner, MD; Allen T. Bishop, MD; Alexander Y. Shin, MD

1Department of Orthopedic Surgery, The Catholic University of Korea, Seoul, South Korea; 2Neurological Surgery, Mayo Clinic, Rochester, MN; 3Department of Neurosurgery, Mayo Clinic, Rochester, MN; 4Department of Orthopedic Surgery, Mayo Clinic, Rochester, MN

9:20 am – 9:22 am

**F6. Arthroscopic Wrist Debridement and Radial Styloidectomy for Late-stage Scapholunate Advanced Collapse Wrist**

Michael V. Birman, MD; Jonathan R. Danoff, MD; Melvin P. Rosenwasser, MD

Trauma Training Center, Department of Orthopaedic Surgery, Columbia University Medical Center, New York, NY

9:22 am – 9:24 am

**F7. Tri-Ligament Tenodesis; Speeding up Recovery**

Reinier Feitz, MD; Eva Beek, MD; Harm Slijper, PhD; Sjoerd Kamminga, MD; Thybout Moojen, MD, PhD

1Xpert Clinic, Hilversum, Netherlands; 2Hand in Pol’s centrum, Diakonehomein Zeist, Zeist, Netherlands; 3Hand surgery, Xpert Clinic, Hilversum, Netherlands

9:24 am – 9:26 am

**F8. Radial Artery Perforator Flap: An Option for Hand Coverage without Sacrificing the Main Vessel. A Series of Cases**

Teng Hsiang Wei, MD, PhD; Antonio Augusto Nunes Abreu, MD; Rames Mattar Jr, MD, PhD; Marcelo Rosa Resende, MD, PhD; Luciano Ruiz Torres, MD

Orthopedic Surgery, University of Sao Paulo, Sao Paulo, Brazil

9:26 am – 9:28 am

**F9. New Method of Flexor Tenosynovitis Treatment Results in Less Post-operative Pain and Earlier Range of Motion**

Haritha B. Veeramachaneni, MD; Brad Edgerton

Plastic and Reconstructive Surgery, University of Southern California, Los Angeles, CA

9:28 am – 9:30 am

**F10. The Surgical Treatment for the Traumatic Mallet Finger**

Alexandru Georgescu, Prof, MD, PhD; Ileana Matei, AsProf, MD, PhD

Plastic Surgery and Reconstructive Microsurgery Clinic, UMF Iuliu Hatieganu, Cluj Napoca, Romania

9:30 am – 9:32 am

**F11. Scaphocapitate Fusion in the Management of Kienböck’s Disease**

Ines C. Lin, MD; Peter Rhee, DO; Steven L. Moran, MD; Allen T. Bishop, MD; Alexander Y. Shin, MD

1Division of Plastic Surgery, Hospital of the University of Pennsylvania, Philadelphia, PA; 2Plastic and Reconstructive Surgery, Mayo Clinic, Rochester, MN; 3Department of Orthopedic Surgery, Mayo Clinic, Rochester, MN; 4Orthopedic Surgery, Mayo Clinic, Rochester, MN

9:32 am – 9:34 am

**F12. Grafting Over Not Vascularized Ulnar Nerve for Treatment of Complete Brachial Plexus Injury**

Paulo Randal Pires, MD; Paulo Randal Pires Junior, MD; Tiago Dória Rosário Falcão, MD

Orthopedics, Madre Teresa Hospital, Belo Horizonte, Brazil

9:34 am – 9:36 am

**F13. Dual Oblique Incisions for Release of the Proximal Median Nerve**

William B. Ericson, MD

Ericson Hand and Nerve Center, Mountlake Terrace, WA

9:36 am – 9:38 am


M. Athir Mirza, MD; Mary Kate Reinhart, MS, CNP

Smithtown, NY

9:38 am – 9:40 am

**F15. What is the Best Radiographic View to Evaluate the Deviation in Die Punch Fractures? A Cadaveric Study**

Antonio Carlos Costa, MD; Diego Figueira Falcocchio, MD; Bruno Eiras Crepaldi, MD; Christiano Augusto Trindade, MD; Ivan Chakour, MD

Hand Surgery and Microsurgery, Santa Casa, São Paulo, Brazil

9:40 am – 9:42 am

**F16. The Anterograde Homo-Digital Neurovascular Island Flap for Reconstruction of Fingertip Injuries**

Ryan D. Katz, MD; Ramon DeJesus, MD

1Curtis National Hand Center, Baltimore, MD; 2Hand Surgery, Upper Chesapeake/Union Memorial Hospitals, Bel Air

9:42 am – 9:44 am

**F17. Early Results of Partial Wrist Arthrodesis with PEEK-Optima Circular Plates**

Ngozi Mogekwu Akabudike, MD; Peter J. Evans, MD, PhD, FRCSC

Orthopaedic Surgery, Cleveland Clinic Foundation, Cleveland, OH

9:44 am – 9:46 am

**F18. MP Transarticular Fixation of Fractures of the Proximal Phalanx Base**

André Bastos Duarte Eiras, MD; Jorge Ribamar Bacellar Costa, MD; José Maurício Carmo, MD

Unit of Hand and Microsurgery/Orthopaedics and Traumatology/Hospital Universitário Pedro Ernesto, Universidade do Estado do Rio de Janeiro, Rio de Janeiro, Brazil

9:46 am – 9:48 am

**F19. Anatomy of the Radial Artery and the Safe Zone in the First Web Space**

William Lanzinger, MD; Randy Bindra, MD

Department of Orthopaedics, Loyola Medical Center, Maywood, IL
F20. Nonunion of Nonoperatively Treated Displaced Olecranon Fractures
Wendy E. Bruniisma, MD; Anneluuk Lindenhovius, MD, PhD; Michael D. McKee, MD, FRCS; George S. Athwal, MD, FRCS; David Ring, MD, PhD  
‘Orthopaedic Hand and Upper Extremity Service, Massachusetts General Hospital, Boston; 2Professor, Division of Orthopaedics, Department of Surgery, St. Michael’s Hospital and the University of Toronto, Toronto, ON, Canada; 3The Hand and Upper Limb Centre, St. Joseph’s Health Care, University of Western Ontario, London, ON, Canada

F21. Camptodactyly: Assessment of Treatment (Retrospective Analysis of 22 Cases)
Saulo Fontes Almeida, MD; Anderson Vieira Monteiro, Rúbia Carla da Silva Lanes, MD; Eduardo Farias Vasquez, MD; Sandro A. Aedodato, MD; Carlos Alberto Neto, MD; Werner Leite, MD; Fabio A. Lima, MD  
Hand Surgery Center, Instituto Nacional de Traumatologia Ortopedia, Rio de Janeiro, Brazil

F22. Outcome of Pyrocarbon Arthroplasty of Proximal Interphalangeal Joint
Nash Naam, MD; Patrick Stewart, MD; Danielle Westendorf, MOTR/L; Lonni Weis, OTR/L, CHT; Lori Niemerg, OTR/L, CHT  
Southern Illinois Hand Center and Southern Illinois University, Effingham, IL

F23. Use of a Fractionated Carbon Dioxide Laser Treatment Protocol for the Treatment of Scars and Adhesions in the Upper Extremity
Julie Kwan, MD; Leo T. Kroonen, MD; Eric P. Hofmeister, MD; Brian Fitzgerald, MD; Nathan Uebelhoer, DO; Peter Shumaker, MD  
‘Department of Orthopedic Surgery, Naval Medical Center San Diego, San Diego, CA; 2Department of Dermatology, Naval Medical Center San Diego, San Diego, CA

F24. Using a Smartphone or Tablet in a Hand Surgery Practice
Scott F.M. Duncan, MD, PhD  
‘Department of Orthopedic Surgery, Dalhousie University, Saint John, NB, Canada; 2Department of Orthopedic Surgery, University of Missouri-Columbia, Columbia, MO

F25. Long Term Functional Results of Cmc Joint Arthroplasty with Muscle Interposition and Ligament Reconstruction
Heitor Ulson, MD; Daniel M. Guilamaee; Leila Abdalla, OT, CHT  
State University of Campinas - UNICAMP, Sao Paulo, Brazil

F26. Use of Static Distraction External Fixation for Pediatric, Unstable Comminuted Middle Phalanx Fracture
Ramon DeJesus, MD; Christopher Forthman, MD; Rachel Pigott, OT, CHT  
‘Upper Chesapeake/Union Memorial Hospital, Bel Air; 2Hand Surgery, Union Memorial Hospital, Lutherville

F27. Surgical Hypnosis for Surgery and Nerve Pain
Scott M. Fried, DO, FAOAO  
The Upper Extremity Institute, Blue Bell, PA

F28. Use of Vascularized Bone Graft with Nitinol Staples for Treatment of Non-Union of the Scaphoid
Mehdi N. Adham, MD; Jordan C. Deschamps-Brady, MD; Kevin Kunkel, MD; Christine Adham  
‘Hand Surgery, Southwest Orthopedic and Reconstructive Specialists, Oklahoma City, OK; 2Plastic Surgery, University of Oklahoma, Oklahoma City, OK; 3Plastic Surgery, Warren Clinic, Tulsa, OK

F29. Response of Dupuytren’s Disease Fibroblasts To Different Oxygen Environments
Tolga Turker, MD; Erin Murphy, BA; Christina Kaufman, PhD; Harish Rekapally, MS; James B. Hoying, PhD; Huey-Yuan Tien, MD; Tuna Ozryurekoglu, MD; Thomas W. Wolff, MD; Luis R. Scheker, MD; Joseph E. Kutz, MD  
‘Christine M. Kleinert Institute for Hand and Microsurgery, Louisville, KY; 2Cardiovascular Innovation Institute, Louisville, KY; 3Kleinert Hand Care Center, Christine M. Kleinert Institute for Hand and Microsurgery, Louisville, KY

F30. The Patient’s Perspective on Carpal Tunnel Surgery related to the Type of Anesthesia
Peter G. Davison, BSc, MD; Tyson Cobb, MD; Donald H. Lalonde, BSc, MSc, MD  
2Plastic Surgery, Dalhousie University, Saint John, NB, Canada; 3Plastic Surgery Dept, Dalhousie University, Saint John, NB, Canada
AAHS Program

10:48 am – 10:50 am
#48 Results of Proximal Ulna Fractures Treated with a Multiplanar, Locked Intramedullary Nail: First Multicenter Experience
Scott G. Edwards, MD1; Mark S. Cohen, MD2; W. Andrew Eglseer, MD3
1Center for Hand and Elbow Specialists, Georgetown University Hospital, Washington, DC; 2Rush University Medical Center, Westchester, IL; 3Shock Trauma Center, University of Maryland, Baltimore, MD

10:50 am – 10:52 am
#49 Comparison of Radial Approach and Two-incision Open Carpal Tunnel Release Using DASH Score and Levine Score
Jung Hsien Hsieh, MD; Tsu-min Tsai, MD
Christine M. Kleinert Institute for Hand and Microsurgery, Louisville, KY

10:52 am – 10:54 am
#50 Cocaine Induced Full Thickness Skin Necrosis of the Upper Extremities
Ashley N. Amalfi, MD1; Erika A. Henkelman, MD2; Nicole Zook Sommer1; Reuben A. Bueno, MD3; Michael Neumeister, MD4
1Division of Plastic Surgery, Southern Illinois University, Springfield, IL; 2Division of Plastic Surgery, SIU School of Medicine, Springfield, IL

10:54 am – 10:56 am
#51 A Simple New Technique for Arthroscopic Humeral Fenestration in Unihumeral Arthroplasty
Kimberly Spahn, MD; Leo T. Kroonen, MD
Department of Orthopedic Surgery, Naval Medical Center San Diego, San Diego, CA

10:56 am – 11:00 am Discussion
Moderator: Rames Matar, MD; Terri Wolfe, CHT
(2 minute presentations)

10:30 am – 10:32 am
#52 Treatment of Symptomatic Neuromas of the Dorsal Radial Sensory Nerve Using a Nerve Conduit
Joshua Abzug, MD1; A. Lee Osterman, MD2; John S. Taras, MD3; Sergio Rodriguez, MD4
1Department of Orthopaedic Surgery, University of Maryland, Baltimore, MD; 2Division of Plastic Surgery, Philadelphia, PA; 3The Philadelphia Hand Center, Thomas Jefferson University, Philadelphia, PA; 4McAllen Hand Center, Edinburg, TX

10:32 am – 10:34 am
#53 Correlating Gap Length to Recovery Outcomes in a Multicenter Study on Processed Nerve Allografts
Darrell Brooks, MD
The Buncke Clinic, San Francisco, CA

10:34 am – 10:36 am
#54 Allograft Nerve Reconstruction for Digital Nerve Loss
John S. Taras, MD1; Kimberly Chhoh, MD2; Mark Rekant, MD3

10:36 am – 10:38 am
#55 Failed Submuscular Ulnar Nerve Transposition: What Next?
Todd Rimington, MD1; Dean G. Sotereanos, MD2
1Orthopaedic Surgery, Allegheny General Hospital, Pittsburgh, PA; 2Allegheny General Hospital, Pittsburgh, PA

10:38 am – 10:40 am
#56 Concomitant Endoscopic Carpal and Cubital Tunnel Releas: Safety and Efficacy
Danielle Cross, MD; Kristofer Matullo, MD
Orthopaedic Surgery, St. Luke’s Hospital and Health Network, Bethlehem, PA

10:40 am – 10:42 am
#57 Optimization of Flexor Tendon Tissue Engineering: Human Adipoderived Stem Cell–Tenocyte Co-Cultures for Seeding of an Acellularized Tendon Scaffolds
Armin Kraus, MD1; Colin Woon, MD2; Shyam S. Raghavan, BS3; Hung Pham, BS3; Kai Megerle, MD4; Matthew Seung Suk Choi, MD5; James Chang, MD6
1Plastic & Reconstructive Surgery, Stanford University, Stanford, CA; 2Plastic & Reconstructive Surgery, Hanyang University Guri Hospital, Guri, South Korea

10:42 am – 10:44 am Discussion

10:44 am – 10:46 am
#58 Predictors of Pain During and The Day After Corticosteroid Injection for Idiopathic Trigger Finger
David C. Ring, MD, PhD6; Abishek Julka, MD; Ana-Maria Vranceanu, PhD2; Apurva Shah, MD; Frank Peters, MD
Hand and Upper Extremity Services, Massachusetts General Hospital, Boston, MA

10:46 am – 10:48 am
#59 Does Removing Local Soft Callus Influence Early Fracture Healing?
Jonathan R. Danoff, MD1; Ayhan Kilic, MD2; Rebecca Rafter, BS3; Eugene Jang, MS; Yelena Akelina, DVM; Thomas Gardner, MCE; Melvin P. Rosenwasser, MD
Department of Orthopaedic Surgery, Columbia University Medical Center, New York, NY

10:48 am – 10:50 am
#60 A Comparison of the Adhesion Reduction Efficacy of ACI-Maix and Tenoglide™ in Primary Flexor Tendon Repair
John Bradley Turner, MD1; Rubina L. Corazzini, BS2; Timothy J. Butler, BS3; David S. Garlick, DVM, DACVP4; Brian Rinker, MD5
1Division of Plastic Surgery, University of Kentucky, Lexington, KY; 2Department of Biomaterials Science and Engineering, Genzyme Corporation, Cambridge, MA; 3Department of Pathology, Histoscientific Research Laboratories, Mount Jackson, VA

10:50 am – 10:52 am
#61 Utility of Denervated Sensory Branch of Radial Nerve as a Graft in Brachial Plexus Reconstruction
Morad Askari, MD1; Michelle F. Kircher, RN2; Robert J. Spinner, MD3; Allen T. Bishop, MD4; Alexander Y. Shin, MD5
1Division of Plastic & Reconstructive Surgery/Dept. of Orthopedic Surgery, Div. of Hand Surgery, University of Miami, Miami, FL; 2Neurological Surgery, Mayo Clinic, Rochester, MN; 3Department of Neurologic Surgery, Mayo Clinic, Rochester, MN; 4Orthopedic Surgery, Mayo clinic, Rochester, MN

10:52 am – 10:54 am
#62 Arthroscopic Treatment of Ulnar Extrinsic Ligament Injuries
Russell D. Rosenberg; Norah M. Harvey, MD; Sidney M. Jacoby, MD; Randall W. Culp, MD
The Philadelphia Hand Center, Thomas Jefferson University, Philadelphia, PA

10:54 am – 10:56 am
#63 Replant And Flap Monitoring With Quantitative Fluorescence: Results from 4305 Readings
Bauback Safa, MD, MBA, FACS; Brian Parrett, MD; Darrell Brooks, MD; Gregory Buncke, MD, FACS; Rudy Buntic, MD, FACS
The Buncke Clinic, San Francisco, CA
10:56 am – 11:00 am  Discussion

11:00 am – 12:00 pm  Joint AAHS/ ASPN Panel:
Evidence-Based Approach to Peripheral Nerve Problems: Things I Don't Do Anymore and How I Do it Now
Moderators: Dean Sotereanos, MD
Panelists: Donald H. Lalonde, MD;  A. Lee Dellon, MD;  Gregory Buncke, MD;  A. Lee Osterman, MD
This panel will take a hard look at evidence-based reasons why some of our senior surgeons have modified their practice over the years.
Objectives: Following this course, the participant will be able to:
1. Explore current treatment techniques for common difficult nerve problems.
2. Examine recurrent nerve compression, neuroma, and laceration.
3. Discover methods of joint denervation for pain and office anesthesia for the treatment of carpal and cubital tunnel syndrome.

12:00 pm – 12:45 pm  Danyo Lecture
Moderator: Steven McCabe, MD
Terry R. Light, MD
Digital Education - Where Have All the Books Gone?
Terry R. Light, MD is the Dr. William M. Scholl Professor and Chairman of the Department of Orthopaedic Surgery and Rehabilitation at Loyola University Stritch School of Medicine. Dr. Light directs the educational programs of students, resident and hand fellows at the school. Dr. Light's interactive presentation will share his perspective on “Digital Education – Where Have All the Books Gone?” He will consider how internet based resources and tools will facilitate our education of the next generation of hand surgeons. Bring your smart phone or PDA so that you can be part of the conversation.

12:45 pm – 1:30 pm  Annual Business Meeting
(AAHS Members Only)

1:30 pm – 5:50pm  Comprehensive Hand Review Course
Chair: Sheel Sharma, MD
Experienced faculty will deliver a comprehensive review and current concepts on common topics encountered in board examinations, the certificate of added qualification in hand surgery certification examination, and resident in-training examinations. The course is ideal for residents, fellows and hand therapists who wish to increase depth of knowledge in hand surgery as well as surgeons in practice seeking a knowledge update or revision in preparing for qualifying examinations.
Objectives: Following this course, the participant will be able to:
1. Discuss non-operative and operative treatment approaches for various commonly encountered disorders of the hand and wrist.
2. Practice with an enhanced understanding of the indications for surgical treatment, the post-operative rehabilitation, expected outcomes, and potential complications of the most common bone, joint, nerve, and soft tissue disorders involving the hand and wrist.
3. Explain the etiology, clinical presentation, physical examination findings, and diagnostic imaging features of various common disorders of the hand and wrist.
4. Recognize various uncommon and/or unusual clinical conditions of the hand and wrist including: tumors, infections, and congenital differences.
5. Compare different treatment methods to avoid complications and improve patient outcomes.
2012 AAHS Electronic Poster Listing

P1 Nonsurgical Treatment of Dupuytren's Contracture: First-Year Safety Results Using Collagenase Clostridium Histolyticum
Clayton A. Peimer, MD; Gregory Fiore, MD; Claudia McGoldrick
College of Human Medicine, Michigan State University, Marquette, MI; SSI Strategy, Westfield, NJ; Auxiliary Pharmaceuticals, Inc, Malvern, PA

P2 Is There A Need for Expanding Hand Fellowship Education?
Sanjeev Kakar, MD, MRCS, MBA; Karim Bakri, MD; Alexander Y. Shin, MD
Orthopaedics, Mayo Clinic, Rochester, MN; Plastic Surgery, Mayo Clinic, Rochester, MN; Department of Orthopedic Surgery, Mayo Clinic, Rochester, MN

P3 Use of a Pedicled Adipofascial Flap as a Sling For Anterior Subcutaneous Transposition of the Ulnar Nerve
Jonathan R. Danoff, MD; Eugene Jang, MS; Rebecca Rajfer, BS; Ioannis Zouzias, MD; Melvin Rosenwasser, MD
Trauma Training Center, Department of Orthopaedic Surgery, Columbia University Medical Center, New York, NY

P4 Tension-Free Vein-Patched Nerve Repair
Luiz G. Dadalt, MD; Heitor Ulson, MD
Hand Surgery, Campinas Hand Clinic, Campinas-SP, Brazil; Hand surgery, Unicamp University, Campinas-SP, Brazil

P5 A New Technique for Reduction of Metacarpal Fracture
Atsuo Kawakita, MD, PhD; Naoki Takada, MD; Ayano Tanibuchi, MD; Hiroshi Mizuochi, MD; Wataru Inokuchi, MD, PhD
Orthopaedic Surgery, Nemeria General Hospital, Tokyo, Japan; Takada Orthopaedic Clinic, Tokyo, Japan

P6 Outcome Measure in Patients with Upper Extremity Pathology: Comparison between Touch Screen Tablet Computer and Paper-based Questionnaire
Rebecca A. Rajfer, BS; Eugene Jang, MS; Jonathan R. Danoff; Melvin P. Rosenwasser, MD
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P7 Delayed Diagnosis of Hand Injuries in Poly-Trauma Patients
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P8 Study The Results of Flexor Carpi Ulnaris And Flexor Carpi Radialis Tendon Transposion in Chronic Radial Nerve Palsy
Abolghasem ZareZadeh, MD; Seyed Houssein Saeed Banadaky, MD; Ali ZareZadeh, MD; Elham Nasri, MD
Orthopaedics, Isfahan University of Medical Sciences, Isfahan, Iran; Orthopedic, Shahid Sadoughi University, Yazd, Iran

P9 Chronic Painful Post-injection Flexor Carpi Radialis Rupture Treated by Complete Tendon Excision
Mark Henry, MD
Hand and Wrist Center of Houston, Houston, TX

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J. Lee Berger, MD
Orthopaedic Surgery, Orthopaedic Associates, Fair Lawn, NJ

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Soroush Assari, MS; Kurosh Darvish, PhD; Asif M. Ilyas, MD
Department of Engineering, Temple University, Philadelphia, PA; Rothman Institute, Thomas Jefferson University, Philadelphia, PA

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Anna Babushkina, MD; Scott G. Edwards, MD
Center for Hand and Elbow Specialists, Georgetown University Hospital, Washington, DC

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David Mandell, JD, MBA
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P14 Optimal Fixation of Acute Scaphoid Fractures – A Cadaver Study
Shai Luria, MD; Lado Lenart, MD; Borut Lenart, MD; Eran Peleg, PhD; Matej Kastelac, MD
Orthopaedic Surgery, Hadassah-Hebrew University Medical Center, Jerusalem, Israel; Institute Jozef Stefan, Ljubljana, Slovenia; Medical Engineering, Hadassah-Hebrew University Medical Center, Jerusalem, Israel; Traumatology, University Clinical Center Ljubljana, Ljubljana, Slovenia

P15 Withdrawn

P16 Complications of Volar Locked Plating for Distal Radius Fractures
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P17 Preservation Of the Ulnar Periosteum During Ulnar Shortening Procedure: Comparison With Conventional Techniques
Kazuki Mito, MD; Toshiyasu Nakamura, MD, PhD; Masato Okazaki, MD; Kazuki Sato, MD, PhD; Hiroyasu Ikegami, MD, PhD; Yoshiaki Toyama, MD, PhD
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Carlos Henrique Fernandes, MD; Jorge Raduan Neto, MD; Joao Baptista G. dos Santos, MD; Flavio Faloppa, MD; Walter Manna Albertoni, MD
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Children’s Hospital Boston and Harvard Medical School, Boston, MA; Department of Pathology, Children’s Hospital Boston and Harvard Medical School, Boston, MA

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Hana Farhang Khoei, MD, MSc, BMSc; Donald H. Lalonde, BSc, MSc, MD
Division of Plastic and Reconstructive Surgery, Dalhousie University, Halifax, NS, Canada; Plastic Surgery Dept, Dalhousie University, Saint John, NB, Canada
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Department of Orthopaedic Surgery, Columbia University Medical Center, New York, NY

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Brian Fitzgerald, MD; Eric Hofmeister, MD; Leo Kroonen, MD; Kathryn Hanna, MD
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Hospital Memorial Caruaru, Prontotrauma, Caruaru - PE, Brazil

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Vishal Thakur, MD; David Chiu, MD
Plastic Surgery, New York University, New York, NY

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Section of Plastic and Reconstructive Surgery, Yale University School of Medicine, New Haven, CT

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Orthopedics and Sports Medicine, Temple University, Philadelphia, PA; Plastic Surgery, Temple University, Philadelphia, PA; Occupational Therapy, Temple University, Philadelphia, PA

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Cesar Miranda, MD; Faloppa Flavio, MD; Santos Joao, MD; Leandro Marcio, MD; Fernandes Carlos, MD; Edson Tinoco, MD; Thales Seabra, MD
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Paulo Randal, MD; Paulo Randal Junior, MD
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Jennifer B. Green, MD; Bruce M. Leslie, MD; Tyler Skafe, MD
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Rushyuan Jay Lee, MD; Dawn M. Laporte, MD; E. Gene Deune, MD, MBA
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P38 Surgeons Are Our Greatest Strength
Marta Huber, BSc, MSc(cand); Jesse B. Jupiter, MD; Beate P. Hanson, MD
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Emmydio De Paula, MD, PhD; Rames Mattar Jr, Associate, Profes; Marcelo R. Resende, MD, PhD; Edgard, N. Franca Bisneto, MD
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P40 Periosteal Reconstruction with Extensor Retinaculum as a Functional Gliding Surface
Jason S. Barr, BA; Lisa F. Schneider, MD; Sheel Sharma, MD
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P41 Partial Ulnar Carpal Excision for Tumor Management Without Subsequent Volar Intercalated Segmental Instability
Alison Kitay, MD; Duretti Fufa, MD; Edward Athanasian, MD
Orthopaedic Surgery, Hospital for Special Surgery, New York, NY

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Occupational Therapy, Instituto de Ortopedia e Traumatologia do HCFMUSP, São Paulo, Brazil
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Erden Ali, MD; Patrick Gillespie, MD; Bernie Colaco, MD
1 Plastic Surgery Department, The Lister Hospital Stevenage, Stevenage, United Kingdom; 2 Cambridge University NHS Foundation Trust, Addenbrooke’s Hospital, Cambridge, United Kingdom; 3 Rheumatology Department, Central Middlesex Hospital, London, United Kingdom

P45  Effect on the Disability of the Upper Extremity of Conservative Management of Distal Radius Fractures. A Prospective Study
Oscar Izquierdo, MD; Pilar Aparicio, MD; Juan Castellanos, MD; Enric Dominguez, MD 1
1 Hand and Microsurgery, Parc Sanitari de Sant Joan de Déu, Barcelona, Spain; 2 Hospital de Granollers, Barcelona, Spain

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Andrew J. Kochevar, MD, MS; Phillip K. Blevins, MD
Department of Surgery/Division of Plastic Surgery, University of Mississippi Medical Center, Jackson, MS

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Serviço de Cirurgia da Mão e Microcirurgia, Hospital Federal da Lagoa, Rio de Janeiro, Brazil

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Henrique Barros Pinto Netto, MD; Juan Llerena, MD, PhD; Victor Jr Cesar, MD; Marcelo Ricardo Reis Pereira, MD; Antonio Pedro Neto Pais, MD
1 Serviço de Cirurgia da Mão e Microcirurgia, Hospital Federal da Lagoa, Rio de Janeiro, Brazil; 2 Instituto Fernandes Figueira/Fundação Oswaldo Cruz, Rio de Janeiro, Brazil

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Matthew Carty, MD; Bohdan Pomahac, MD
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Stanford University, Stanford, CA

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Bryan Chung, MD, PhD; Steven Morris, MD, MSc
Division of Plastic Surgery, Dalhousie University, Halifax, NS, Canada

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Marcelo Rosa Rezende, MD, PhD; Emigdio Leonil de Paula, MD, PhD; Rames Junior Mattar, MD, PhD; Edgard Bistneto Franca, MD, PhD
Hand and Microsurgery Institute, University of São Paulo, São Paulo, Brazil

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Hand Surgery and Microsurgery, Santa Casa, São Paulo, Brazil

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1 Hand and Microsurgical Department, Hospital General del Parc Sanitari de Sant Joan de Déu, Barcelona, Spain; 2 Neurology, Hospital Universitario Germans Trias i Pujol, Barcelona, Spain; 3 Hand and Microsurgery, Parc Sanitari de Sant Joan de Déu, Barcelona, Spain; 4 Hospital de Granollers, Barcelona, Spain

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Fabio A. Lima, MD; Renato Harley Santos Botelho, MD; Jose Mauricio Carmo, MD
Hand Surgery Department, Hospital Universitario Pedro Ernesto, Universidade do Estado do Rio de Janeiro, Rio de Janeiro, Brazil

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Jonathan D. Keith, MD; Joseph E. Imbriglia, MD
1 Division of Plastic and Reconstructive Surgery, University of Pittsburgh
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Marcio A. Aita, MD; Gustavo Mantovanni Ruggiero, MD; Walter Yoshinori Fukushima, MD; Edison Noboru Fujiki, MD
Orthopaedic Surgery Department, Faculdade de Medicina do ABC, Santo Andre, Brazil

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João Carlos Nakamoto, MD;1 Luciano Ruiz Torres, MD;2 Luiz Sorrenti, MD;2 Fernanda do Carmo Iwase, MD;2 Silmara Nicolau Pedro da Silva, MSc, OTr;2 AV Zumioti, MD;2 Teng Hsiang Wei, MD, PhD;3 Rames Mattar, MD4
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Wilson M. Oliveira Jr, MD
Hand Surgery, Irmandade da Santa Casa de Misericórdia de Sorocaba, Sorocaba - SP, Brazil; S. Brandi, Irmandade da Santa Casa de Misericórdia de Sorocaba, Sorocaba, Brazil

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Orthopaedics and Traumatology / Hand Surgery Department, Universidade do Estado do Rio de Janeiro, Rio de Janeiro, Brazil

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Rosane Schettino Biscotto, MD; Antonio Pedro Neto Pais, MD; Henrique Barros Pinto Netto, MD; Victor Cesar, MD; Marcelo Ricardo Reis Pereira, MD
Serviço de Cirurgia da Mão e Microcirurgia, Hospital Federal da Lagoa, Rio de Janeiro, Brazil

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Rames Mattar Junior, MD, PhD;1 Tiago Guedes da Motta Mattar, MD;1 Emhydio Jose Leonil Paula, MD, PhD;1 Marcelo Rosa Rezende, MD, PhD;1 Teng Hsiang Wei, MD, PhD;1 Luís Koiti Kimura, MD;2 Luciano Ruiz Torres, MD;2 Mateus Saito, MD;1 Edgard Novaes Franca Bisneto, MD, PhD;1
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Maria Candida M. Luzo, OT;1 Rames Mattar Jr, MD, PhD;2 Valeria Aquilino Reis, OTR;1 Teng Hsiang Wei, MD, PhD2
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Lorenzo Pacelli, MD; Mersadies Martin, MD; Diana Kivirahk, OTR/L, CHT; Andy Myerson, PA-C; Botte Michael, MD
Orthopaedic Surgery, Scripps Clinic, La Jolla, CA

P68 Cadaver-Based Surgical Education Curriculum
Cameron Francis, MD;1 Chandra Ellis, MD;2 Justin T. Kane, MD;3 Haritha Veeramachaneni, MD;2 Mark M. Urata, MD, DDS;5 Wesley G. Schooler, MD;1 Kathryn Iwata5
1Division of Plastic Surgery, University of Southern California Keck School of Medicine, Los Angeles, CA; 2Plastic Surgery, University of Southern California, Los Angeles, CA; 3Division of Plastic and Reconstructive Surgery, Keck School of Medicine of the University of Southern California, Los Angeles, CA

P69 Digital Flexor Tendon Repair for Tension-Relieving and Early Motion In Zones I and II Using A Dynamic Anchor Pull-Out Loop
Heitor J. R. Ulson, MD;1 Luís A. Buendia, MD;2 Alexandre T. Shiobara, MD1
1Hand surgery, Hospital Samaritano, São Paulo and State University of Campinas – UNICAMP; Hand Surgery Unit, São Paulo, SP, Brazil; 2Hand surgery, Hospital Samaritano, São Paulo, Brazil; 3Hand Surgery, State University of Campinas-UNICAMP, São Paulo, Brazil

P70 Paperboard Splint
Gerson Lamneza Sholl da Silva, CHT;1 José Maurício Morais Carmo, MD2
1Unit of the Hand and Microsurgery, Universidade do Estado do Rio de Janeiro, Rio de Janeiro, Brazil; 2Orthopaedics and Traumatology / Hand Surgery Department, Universidade do Estado do Rio de Janeiro, Rio de Janeiro, Brazil
Educational Overview
This program provides an opportunity for surgeons, therapists, researchers, faculty and other healthcare professionals working in these complementary fields to share new discoveries and techniques. By learning from colleagues about cutting-edge technologies and patient-care options, participants will have a broader view of patient treatment and recovery.

Intended Audience
This educational activity is intended for healthcare professionals and researchers working in the fields of hand surgery, peripheral nerve and/or neural regeneration, and microneurovascular surgery and other complex reconstructions.

Learning Objectives
Following completion of this activity, participants will be able to:
- Discuss clinical and basic science research.
- Describe robotic applications in three fields: plastic surgery, nerve surgery and hand surgery.

ABMS Core Competencies
This program will address the following ACGME/ABMS Competencies:
- Patient Care and Procedural Skills
- Medical Knowledge
- Practice-Based Learning and Improvement
- Systems-Based Practice

Accreditation Statement
This activity has been planned and implemented in accordance with the Essential Areas and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint sponsorship of the American Society of Plastic Surgeons (ASPS), the American Association for Hand Surgery (AAHS), the American Society for Peripheral Nerve (ASPN), and the American Society for Reconstructive Microsurgery (ASRM). The ASPS is accredited by the ACCME to provide continuing medical education for physicians.

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All identified conflicts of interests have been resolved.

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### DAY-AT-A-GLANCE
#### Saturday, January 14, 2012

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<tr>
<td>6:00am – 5:00pm</td>
<td>Speaker Ready Room</td>
<td>Willows</td>
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<tr>
<td>6:30am – 5:00pm</td>
<td>Registration</td>
<td>Registration Desk</td>
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<tr>
<td>6:30am – 8:00am</td>
<td>AAHS/ASRM/ASPN Breakfast</td>
<td>Charleston</td>
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<tr>
<td>7:00am – 8:00am</td>
<td><strong>AAHS/ASPN/ASRM Instructional Courses</strong></td>
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<td></td>
<td>201 Management of Failed Carpal Tunnel Surgery</td>
<td>Veranda D</td>
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<td>202 Carpal Tunnel Syndrome – Update (ABPS MOC-PS-approved)</td>
<td>Siena</td>
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<td>203 Nerve Transfers vs. Tendon Transfers: Timing Treatment Options and Post Operative Therapy</td>
<td>Veranda C</td>
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<td>204 Controversies in Management of Complex Regional Pain Syndromes: Surgery vs. Non-Operative Treatment Options and Validated Methods to Study Outcomes</td>
<td>Veranda B</td>
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<td>205 Winning the Future: How to Best Train the Next Generation of Microsurgeons</td>
<td>Trails</td>
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<td>206 Bench to Bedside: Translational Research in Microsurgery</td>
<td>Veranda A</td>
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<tr>
<td>8:00am – 8:15am</td>
<td>AAHS/ASPN/ASRM President’s Welcome</td>
<td>Summerlin ABEF</td>
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<td>8:15am – 9:30am</td>
<td>AAHS/ASPN/ASRM Panel: Nerve Transfers vs. CTA vs Robotics</td>
<td>Summerlin ABEF</td>
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<tr>
<td>9:30am – 10:00am</td>
<td>Coffee Break with Exhibitors</td>
<td>Charleston</td>
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<tr>
<td>10:00am – 11:00am</td>
<td>AAHS/ASPN/ASRM Joint Presidential Keynote Lecture Steven Levitt</td>
<td>Summerlin ABEF</td>
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<tr>
<td>11:00am – 12:00pm</td>
<td>AAHS/ASPN/ASRM Joint Outstanding Papers</td>
<td>Summerlin ABEF</td>
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Saturday January 14, 2012

6:30 am - 8:00 am  Breakfast with Exhibitors

7:00 am – 8:00 am  AAHS/ASPN/ASRM Instructional Courses

201 Management of Failed Carpal Tunnel Surgery
Chair: A. Lee Osterman, MD
Instructors: Miguel A. Pirela-Cruz, MD; Josh M. Abzug, MD; Nash A. Naam, MD; Nancy Davidson, MOTC/L; Carlos Henrique Fernandes, MD

Failure of symptom resolution after carpal tunnel release or recurrence of pain can be a result of several factors, including incorrect diagnosis, incomplete release or scarring of the nerve. This course will cover assessment of a patient who has failed carpal tunnel release, indications for repeating surgery and strategies during surgery based on pathological changes found. Non operative treatment and therapy modalities will also be discussed.

Objectives: Following this session, the participant will be able to:
1. Assess a patient who has failed carpal tunnel release, and indicate strategies during surgery based on pathological changes found.
2. Identify non operative treatment and therapy modalities.

202 Carpal Tunnel Syndrome – Update (ABPS MOC-Peds-approved)
Chair: Donald H. Lalonde, MD
Instructors: Peter Murray, MD; Ather Mirza, MD; Michael Bednar, MD

Participation in this course can count towards part IV of the ABPS practice improvement modules as part of the MOC for ABPS diplomates if they have uploaded their 10 consecutive cases on the ABPS web site. The course will cover principles and basic science of carpal tunnel syndrome as well as clinical and neurophysiological assessment. Evidence based outcome studies will be used to compare open and endoscopic surgery.

Objectives: Following this session, the participant will be able to:
1. Recognize basic science of carpal tunnel syndrome as well as clinical and neurophysical assessment.
2. Evaluate evidence based outcome studies used to compare open and endoscopic surgery.

203 Nerve Transfers vs. Tendon Transfers: Timing, Treatment Options and Post Operative Therapy
Instructors: Thomas Tung, MD; Justin Brown, MD; Christine Novak, PhD, PT

This course will discuss the indications, patient selection and surgical techniques for tendon transfers to restore wrist flexion and extension and reconstruction of biceps and triceps muscle function in the upper arm to restore elbow flexion and extension. This course will also detail the evolving techniques of multiple nerve transfers in the upper extremity. The importance of timing in decision-making will be highlighted.

Objectives: Following this session, the participant will be able to:
1. Summarize indications, patient selection and surgical techniques for tendon transfers to restore wrist flexion and extension and reconstruction of biceps, triceps and muscle function of the upper arm.

204 Controversies in Management of Complex Regional Pain Syndromes: Surgery vs. Non-Operative Treatment Options and Validated Methods to Study Outcomes?
Instructors: Ivica Ducic, MD, PhD; Wyndell Merritt, MD

Neuropathic pain, particularly when CRPS may be involved, can be especially vexing for the peripheral nerve surgeon. This course will discuss both the operative issues and non-operative modalities in the multi-disciplinary care of these patients. Validated methodologies for outcomes studies will be highlighted.

Objectives: Following this session, the participant will be able to:
1. Discuss both operative issues and non-operative modalities in multi-disciplinary care of patients with neuropathic pain.
2. Validate methodologies for outcomes studies.

205 Winning the Future: How to Best Train the Next Generation of Microsurgeons
Instructors: Charles Butler, MD; Randy Sherman, MD; Michael Neumeister, MD; J. Brian Boyd, MD; James Boehmler, MD

This panel of experts will discuss what they feel is the best way to train future microsurgeons with respect to the current financial constraints and the limitations of the 80 hour work week.

Objectives: Following this session, the participant will be able to:
Communicate the best way to train future surgeons though restricted by the 80 hour work week.

206 Bench to Bedside: Translational Research in Microsurgery
Chair: Clara Lee, MD
Instructors: Terry Myckatyn, MD; Justin M. Sacks, MD

This esteemed panel of scientist will discuss the opportunities of translational medicine and provide the latest knowledge in ongoing translational topics within surgery.

Objectives: Following this session, the participant will be able to:
1. Describe opportunities of translational medicine.
2. Provide the latest knowledge of ongoing translational topics within surgery.

8:00 am - 8:15 am  President Welcome
Joint AAHS/ASPN/ASRM Panel: Nerve Transfers vs. CTA vs. Robotics

Moderator: Gedge Rosson, MD
Invited Panelists: Susan Mackinnon, MD; W. P. Andrew Lee, MD, FACS; Oskar Aszmann, MD

With significant advances in nerve transfers, vascularized composite allotransplantation, and prosthetics, it is not always clear how these evolving techniques relate. This panel of experts will highlight their experiences with these modalities.

Objectives: Following this session, the participants will be able to:
1. Describe the relatable differences and similarities between evolving surgical techniques such as nerve transfers, vascularized composite allotransplantation and prosthetics.

Coffee Break with Exhibitors

Steven Levitt

Steven Levitt is an economist who is a brilliant but uncomplicated man who uses simple questions to reach startling conclusions. Though he has no political agenda his theories have set off a firestorm of controversy and has had both conservatives and liberals up in arms. Levitt has shown other economists just how well their tools can make sense of the real world. Winner of the 2004 John Bates Clark Medal, he is currently the William B. Ogden Distinguished Service Professor of Economics at the University of Chicago. He co-authored the best-selling book Freakonomics and its sequel Superfreakonomics.

AAHS/ASPN/ASRM Joint Outstanding Paper Presentations

Moderators: Randip R. Bindra, MD, FRCS; Gedge Rosson, MD; David H. Song, MD, MBA, FACS

AAHS

11:00 am – 11:07 am
Fibrin Glue Augmentation of Nerve Repair Does Not Impede Neurological Recovery in an Animal Model

Greg Rafijah, MD; Christina Dolores; Andy Bowen; Ryan Vitali; Tahseen Mozaffar; Ranjan Gupta
Orthopaedic Surgery, University of California, Irvine, Irvine, CA

11:07 am – 11:14 am
Scaphoid Malunion: Outcomes of Corrective Osteotomy Compared to Salvage Procedures

Blake Paul Gillette, MD; Sanjeev Kakar, MD, MRCS, MBA; Peter C. Amadio, MD
1Orthopaedic Surgery, Mayo Clinic, Rochester, MN; 2Orthopaedics, Mayo Clinic, Rochester, MN

11:14 am – 11:20 am Discussion

ASPN

11:20 am – 11:27 am
Brief 1 Hour 20Hz Electrical Stimulation (ES) Improves Axon Regeneration After Delayed Nerve Repair in Sprague Dawley Rats

Adil Ladak, MSc, MD; Neil Tyreman, BSc; Valarie Verge, PhD; Tessa Gordon, PhD
1Division of Plastic and Reconstructive Surgery, The Hospital for Sick Children, Toronto, ON, Canada; 2Division of Neuroscience, University of Alberta, Edmonton, Canada; 3CMSGNRC and Department of Anatomy and Cell Biology, University of Saskatchewan, Saskatoon, Canada

11:27 am – 11:34 am
Hand Outcomes in Operative Management of Complete Obstetrical Brachial Plexus Palsy

Isaac Harvey, FRACS, MBBS, BSc; Emily Ho, MD; Howard Clarke, MD
1Division of Plastic and Reconstructive Surgery, Hospital for Sick Children, Ontario, ON, Canada; 2Division of Plastic and Reconstructive Surgery, Hospital for Sick Children, Toronto, ON, Canada

11:34 am – 11:40 am Discussion

ASRM

11:40 am – 11:47 am
The Profunda Artery Perforator Flap (PAP): A New Flap for Breast Reconstruction

Maria M. LoTempio, MD; Nicholas Haddock, MD; Alirea Sadeghi, MD; Christina Ahn, MD; Robert J. Allen, MD
1Plastic Surgery, Medical University of South Carolina, Charleston, SC; 2NYU, New York, NY; 3LSU, New Orleans, LA; 4Plastic Surgery, Louisiana State University Health Science Center, New Orleans, LA

11:47 am – 11:54 am
Fascicular Turnover Nerve Flaps Versus Free Nerve Grafts: Pilot Study of Comparison and Outcomes in a Rat Model

Adrian Ooi, MBBS; Terence Goh, MD; Chin-Ho Wong, MD; Kok Chai Tan, MD
Plastic, Reconstructive and Aesthetic Surgery, Singapore General Hospital, Singapore, Singapore

11:54 am – 12:00 pm Discussion

12:00 pm Adjourn
# 2011-2012 ASPN Council

<table>
<thead>
<tr>
<th>Position</th>
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<tr>
<td>President</td>
<td>Ivica Ducic, MD, PhD</td>
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<tr>
<td>President-Elect</td>
<td>Robert Spinner, MD</td>
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<tr>
<td>Vice President</td>
<td>Allan J. Belzberg, MD, FRCSC</td>
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<tr>
<td>Secretary</td>
<td>Nash H. Naam, MD</td>
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<tr>
<td>Treasurer</td>
<td>Thomas H.H. Tung, MD</td>
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<tr>
<td>Historian</td>
<td>James Bain, MD</td>
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<tr>
<td>Immediate Past President</td>
<td>Paul S. Cederna, MD</td>
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<tr>
<td>Past President</td>
<td>Howard M. Clarke, MD, PhD</td>
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**Council Members at Large**

- Gregory H. Borschel, MD
- Martijn Malessey, MD
- Christine B. Novak, PhD, PT
Please join us in thanking these ASPN committee members for their work in 2011

**ASPN Representative to the ASPS/PSEF Board of Directors**
William Zamboni, MD

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Gregory Borschel, MD
David Brown, MD
Bradon Wilhelmi, MD

**Coding and Reimbursement Committee**
Susan E. Mckinnon, MD, Chair
Justin Brown, MD
Gedge D. Rosson, MD

**Education Committee**
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Paul S. Cederna, MD
A. Lee Dellon, MD
Loree Kallianen, MD
Rajiv Midha, MD
Michael Neumeister, MD
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Eric Williams, MD

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Ida Fox, MD
Jonathon Winograd, MD

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J. Henk Coert, MD
Christine Novak, PT MS PhD
Shai Rozen, MD

**Newsletter Committee**
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Jonathan Winograd, MD
Renata Weber, MD

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Howard Clarke, MD, PhD
Rajan Gupta, MD
Tessa Gordon, MD
William Kuzon, MD

**Scientific Program Committee**
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Allan Belzberg, MD
David Brown, MD, FACS
Gregory Borschel, MD
J. Henk Coert, MD
Martijn Malessy, MD
Thomas Tung, MD
Jonathan Winograd, MD

**Technical Exhibits/Website Committee**
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Justin M. Brown, MD
Darrell Brooks, MD

**Time And Place Committee**
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Howard Clarke, MD, PhD
Ivica Ducic, MD, PhD
James Bain, MD
Martijn Malessy, MD
Nash Naam, MD
Paul Cederna, MD
Robert Spinner, MD
Thomas Tung, MD
ASPN HISTORICAL INFORMATION

Founding Council (Established April 19, 1990)
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David Chiu, MD
A. Lee Dellon, MD
Richard Ehrlichman, MD
Nelson Goldberg, MD
Roger Khouri, MD
Howard Klein, MD
Susan E. Mackinnon, MD
Hallene Maragh, MD
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Elliot Rose, MD
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Thomas Stevenson, MD
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Allen Van Beek, MD
Bruce Williams, MD

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Berish Strauch, MD 1993-1994
H. Bruce Williams, MD 1994-1995
Susan E. Mackinnon, MD 1995-1996
Wyndell Merritt, MD 1996-1997
Allen Van Beek, MD 1997-1998
Saleh Shenaq, MD 1998-1999
David T. W. Chiu, MD 1999-2001
Nancy H. McKee, MD 2001-2002
William M. Kuzon, Jr., MD, PhD 2002-2003
Keith E. Brandt, MD 2003-2004
Steven McCabe, MD 2004-2005
Maria Siemionow, MD, PhD 2005-2006
Rajiv Midha, MD 2006-2007
Gregory R. D. Evans, MD, FACS 2007-2008
Robert C. Russell, MD 2008-2009
Howard M. Clarke, MD, PhD 2009-2010
Paul S. Cederna, MD 2010-2011
Educational Overview
After the completion of this program, participants will have an enhanced knowledge of the pathophysiology and the management of chronic pain including the scope and application of surgical techniques used in treating different chronic pain syndromes and recurrent entrapment neuropathy.

Intended Audience
The American Society for Peripheral Nerve (ASPN) Annual Meeting is intended for surgeons, researchers and other healthcare professionals working in disciplines related to peripheral nerve and/or neural regeneration.

Learning Objectives
Following completion of this activity, participants will be able to:

• Describe and discuss the revolutions in tissue animation.
• Analyze and discuss the different options of managing patients with recurrent entrapment neuropathy, brachial plexus injuries, peripheral nerve tumors, and facial paralysis.
• Examine the role of nerve transfers, motorized prosthetics and composite tissue allotransplantation in the management of severe nerve injuries and amputations.
• Explain and discuss new advances in nerve transplantation and repair.
• Describe and discuss the evolving management of different pain syndromes.

ABMS Core Competencies
This program will address the following ACGME/ABMS Competencies:

• Patient Care and Procedural Skills
• Medical Knowledge
• Practice-Based Learning and Improvement
• Systems-Based Practice

Educational Formats/Methodologies

• Scientific presentations on current and recent advances in peripheral nerve surgery
• Lectures from invited experts on specific topics related to the management of facial paralysis, timing of nerve repair and upper extremity peripheral nerve microsurgery
• Panel discussions on new approaches to identifying and managing failed or recurrent entrapment neuropathies, composite tissue allotransplantation and robotics, and head to toe reconstructive challenges
• Instructional courses on different topics related to nerve biology, pathophysiology, nerve imaging, nerve compressions, facial palsy, tissue engineering, CRPS and nerve injury

Accreditation Statement
This activity has been planned and implemented in accordance with the Essential Areas and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint sponsorship of the American Society of Plastic Surgeons (ASPS) and the American Society for Peripheral Nerve (ASPN). The ASPS is accredited by the ACCME to provide continuing medical education for physicians.

Designation Statement
The ASPS designates this live activity for a maximum of 12 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Disclosure Policy
The ASPS requires all faculty, authors, planners, reviewers, managers, and other individuals in a position to control or influence the content of an activity to disclose all relevant financial relationships or affiliations. All identified conflicts of interest must be resolved and the educational content thoroughly vetted by ASPS for fair balance, scientific objectivity, and appropriateness of patient care recommendations. The ASPS also requires faculty/authors to disclose when off-label/unapproved uses of a product are discussed in a CME activity or included in related materials.

Disclaimer
The Society hereby acknowledges that while its broad purpose is to promote the development and exchange of knowledge pertaining to the practice of microsurgery; it does so only in the context of a private forum without making any representation to the public whatsoever. Accordingly, the Society declares that its primary purpose is to benefit only its members, and responsibility for the Society for acts or omissions of Society members dealing with the public is hereby expressly disclaimed.
Disclosure Policy and Presenter’s Disclosures

The American Society of Plastic Surgeons (ASPS) requires all instructors, planners, reviewers, managers, and other individuals in a position to control or influence the content of an activity to disclose all relevant financial relationships or affiliations. All identified conflicts of interest must be resolved and the educational content thoroughly vetted by ASPS for fair balance, scientific objectivity, and appropriateness of patent care recommendations. The ASPS also requires faculty/authors to disclose when off-label/unapproved uses of a product are discussed in a CME/CE activity or included in related materials.

All identified conflicts of interests have been resolved.

Disclosures of all Chairs, Co-Chairs, Speakers, Authors, Moderators, Reviewers, Committee Members, and other appropriate individuals:

Aaron Filler, MD – Speaker: NeuroGrafix
Darrell Brooks, MD – Research Support Recipient: Axogen

John Carrino, MD –
Avneesh Chhabra, MD – Consultant: Siemens, Research Support Recipient: Integra Life Sciences, Research for Support Recipient: GE-AUR.

Justin Brown, MD – Consultant: Check Point Surgical
Gedge D. Rosson, MD –
Robert Spinner, MD – Consultant: Mayo Medical Ventures

The following Chairs, Co-Chairs, Speakers, Authors, Moderators, Reviewers, and other appropriate individuals reported they have no relevant financial relationships or affiliations to disclose:

Aaron Adams, PhD
Anne MR Agur, BSc(OT), PhD
Uros Ahcan, MD, PhD
Oskar C. Aszmann, MD
Atakan Aydin, MD
Ziya Baghmanli, MD
Lin Bai, BS
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Jenny C. Lin, MD, PhD
Xiao-Lin Liu, MD, PhD
Shai Luria, MD
Susan Mackinnon, MD
Martijn J.A. Malessy, PhD
Samir Mardini, MD
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Rajiv Midha, MD
Jose J. Monsivais, MD
Amy M. Moore, MD
Michael Neumeister, MD
Christian Novak, PhD, PT
A. Lee Osterman, MD
Willem Pondaaag, MD
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Huan Wang, MD, PhD
Ziyi Wang, MD
Eric H. Williams, MD
Jonathan Winograd, MD
Matthew D. Wood, PhD
Ying Yan, MD/PhD
Andrew Yee, MD

ASPS and ASPN Education and Meetings staff members have no relevant financial relationships or affiliations to disclose.
American Society for Peripheral Nerve

DAY-AT-A-GLANCE

Friday, January 13, 2012

6:00am – 5:00pm  Speaker Ready Room  Willows

6:30am – 5:30pm  Registration  Registration Desk

8:00am – 11:00am  ASPN Council Meeting  Hills

11:00am – 11:05am  ASPN President and Program Chair Welcome  Summerlin ABEF

11:05am – 12:00pm  Joint AAHS/ASPN Panel: Evidence Based Approach to Peripheral Nerve Problems: Things I Don’t Do Anymore  Summerlin ABEF

12:15pm – 1:30pm  Scientific Paper Session 1 & Lunch  Summerlin CD

1:30pm – 2:00pm  Invited Lecture: Advances in (Upper Extremity) Peripheral Nerve Surgery  Uros Ahcan, MD, PhD  Summerlin CD

2:00pm – 2:15pm  Break with Exhibitors  Charleston

2:15pm – 3:15pm  ASPN Instructional Courses  Trails

301 Failed Upper Extremity Nerve Decompressions – What’s Next?

302 Controversies in Brachial Plexus Surgery  Hills

303 Targeted Reinnervation  Veranda D

304 Scratch Collapse Test  Siena

305 Management of Peripheral Nerve Tumors  Summerlin CD

3:15pm – 4:15pm  Scientific Paper Session 2  Summerlin CD

4:15pm – 5:15pm  Panel: Peripheral Nerve Transplantation  Summerlin CD
12:41 pm - 12:45 pm  Changes in Temperature Sensation Measured With Quantitative Sensory Testing in Patients With Post-Traumatic Cold Intolerance
E.S. Smits; E.T. Walbeehm, MD, PhD; E.A.M. Van Bodegraven-Hof; Frank J.P. Huygen, MD, PhD; S.E.R. Hovius, MD, PhD; Ruud W. Selles, PhD
Institution where the work was prepared: Erasmus MC - University Medical Center, Rotterdam, Netherlands

12:45 pm - 12:49 pm  Tissue Engineered Guided Regenerative Gel for Recovery of Peripheral Nerve Injury with Massive Loss Defect
Shimon Rochkind, MD; Moshe Graif; Zvi Nevo, PhD
Institution where the work was prepared: Tel Aviv Sourasky Medical Center, Tel Aviv University, Tel Aviv, Israel

12:49 pm - 1:00 pm  Discussion

1:30 pm - 2:00 pm  Invited Lecture
Professor Uros Ahcan, MD, PhD
Advances in (Upper Extremity) Peripheral Nerve Surgery
Peripheral nerve surgery in the upper extremity encompasses acute nerve injuries, entrapment neuropathies and nerve sheath tumors. Patients with peripheral nerve disorders require multidisciplinary care, proper microsurgical technique and constantly updated knowledge from experimental laboratories and basic science. Comprehensive review of options for surgical nerve interventions and the operative techniques used in peripheral nerve surgery of the upper extremity will be outlined.

2:00 pm - 2:15 pm  Break with Exhibitors

2:15 pm - 3:15 pm  ASPN Instructional Courses

301 Failed Upper Extremity Nerve Decompressions – What’s Next?
Instructors: Allen Van Beek, MD; Gregory Buncke, MD
This course will focus on the controversies between open versus endoscopic techniques of carpal and cubital tunnel surgeries, and highlight the difficulties and experience with complex redo surgeries for failed decompressions.

Objective: Following this session, the participant will be able to:
1. Identify specific controversies between open and endoscopic techniques of carpal and cubital tunnel surgeries.
2. Discuss the difficulties and experience with complex redo surgeries for failed decompressions.

302 Controversies in Brachial Plexus Surgery
Instructors: Thomas Tung, MD; Allan Belzberg, MD; Howard M. Clarke, MD, PhD
This course will review the relevant anatomy of the brachial plexus and how it is affected in obstetrical, tumor, and post-traumatic surgery. We will review what factors play a role in spontaneous regeneration and how they can be used to predict prognosis. The various surgical options for the typical injuries seen by the peripheral nerve surgeon are highlighted.

Objectives Following this session, the participant will be able to:
1. Recognize basic science of carpal tunnel syndrome as well as clinical and neurophysical assessment.
2. Evaluate evidence based outcome studies used to compare open and endoscopic surgery.
303 Targeted Reinnervation

Instructors: Paul Cederna, MD; Gregory Borschel, MD

As prosthetics improve, the ability to interface the motor and sensory systems becomes increasingly important. This course will review the anatomy, techniques and goals of targeted muscle in reinnervation and targeted sensory reinnervation.

Objectives: Following this session, the participant will be able to:
1. Identify the importance of prosthetics ability to improve and interface the motor and sensory systems
2. Discuss anatomy, techniques and goals of targeted muscle in reinnervation.

304 Scratch Collapse Test

Instructors: Gil Gontre, MD, Lorna Kahn, PT, CHT; Susan Mackinnon, MD

This instructional course describes the Scratch Collapse Test (SCT). The SCT is very useful in evaluating patients with multiple levels of nerve compression and muscle imbalance, and especially in prioritizing multiple neuromuscular problems within the same extremity. It is especially helpful in evaluating difficult neuropathic pain patients. This course describes the nuances of the SCT and uses videos of patient exams to illustrate its utility.

Objectives: Following this session, the participant will be able to:
1. Decide if the Scratch Collapse Test is useful in evaluating patients with multiple levels of nerve compression and muscle imbalance.
2. Demonstrate evaluation of difficult neuropathic pain in patients by using the SCT.

305 Management of Peripheral Nerve Tumors

Instructors: Robert Spinner, MD; Martijn Malessy, MD

Advances in management of peripheral nerve tumors have occurred in the past two decades that have improved our diagnosis and treatment of these lesions. This course highlights important developments related to intraneural and extraneural lesions.

Objectives: Following this session, the participant will be able to:
Recognize important developments related to intraneural and extraneural lesions.

3:15 pm - 4:15 pm Scientific Paper Session 2

Moderators: A. Lee Dellon, MD and Rajiv Midha, MD

Throughout this program a series of basic and clinical research papers chosen by the Program Committee will be presented.

Objective: The participants will be exposed to ongoing research in the field of peripheral nerve surgery

3:31 pm - 3:35 pm C6 to C5 Nerve Transfer in Obstetric Brachial Plexus Lesions

Martijn J.A. Malessy, PhD; Willem Pondaag, MD

Institution where the work was prepared: LUMC, Leiden, Netherlands

3:35 pm - 3:45 pm Discussion

3:45 pm - 3:49 pm 3 Tesla and 3 D MR Neurography of the Brachial Plexus

Avneesh Chhabra, MD; Gaurav K Thawait; Eric H Williams; Alan J. Belzberg; John A Carrino

Institution where the work was prepared: Johns Hopkins University, Baltimore, MD, USA

3:49 pm - 3:53 pm A Comparison of Manual and Quantitative Shoulder Strength Testing

Leili Shahgholi, MD; Keith A. Bengtson, MD; Alexander Y. Shin, MD; Allen T. Bishop, MD; Robert J. Spinner, MD; Kenton R. Kaufman, PhD

Institution where the work was prepared: Mayo clinic, Rochester, MN, USA

3:53 pm - 3:57 pm Does Primary Brachial Plexus Surgery Alter Palliative Tendon Transfer Surgery Outcomes in Children with Obstetric Paralysis?

Atakan Aydin; Ahmet Bicer; Berkans Mersa

Institution where the work was prepared: Istanbul Medical Faculty, Istanbul, Turkey

3:57 pm - 4:01 pm CT Myelography in Obstetric Brachial Plexus Lesions

Willem Pondaag, MD; Stefan C.A. Steens, MD, PhD; Berit M. Verbist, MD, PhD; Martijn J.A. Malessy, PhD

Institution where the work was prepared: Willem Pondaag, Leiden, Netherlands

4:01 pm - 4:05 pm Brachialis to Anterior Interosseous Nerve Transfer: An Anatomic Study

Kirsty Usher Boyd, MD, FRCSC; Gurpreet Dhaliwal, MD, FRCSC, FACS; Susan E. Mackinnon, MD

Institution where the work was prepared: Washington University, St. Louis, MO, USA

4:05 pm - 4:15 pm Discussion

4:15 pm - 5:15 pm Panel: Peripheral Nerve Transplantation

Moderator: Maria Siemionow, MD, PhD

Invited Panelists: Gerald Brandacher, MD; Thomas Tung, MD

This panel will highlight the advances in Peripheral Nerve Transplantation, both in terms of feasibility of nerve transplantation as a single tissue, and the role of the nerve component in a vascularized composite tissue allograft.

Objective: Following this session, the participants will be able to:
1. Identify advances in Peripheral Nerve Transplantation in terms of feasibility of nerve transplantation as a single tissue.
2. Identify advances in Peripheral Nerve Transplantation and the role of the nerve component in vascularized composite tissue allograft.
# American Society for Peripheral Nerve

## DAY-AT-A-GLANCE

### Saturday, January 14, 2012

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<td>6:30am – 5:00pm</td>
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<tr>
<td>6:30am – 8:00am</td>
<td>AAHS/ASPN/ASRM Breakfast</td>
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<td>7:00am – 8:00am</td>
<td>AAHS/ASPN/ASRM Instructional Courses</td>
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<td>201 Management of Failed Carpal Tunnel Surgery</td>
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<td>202 Carpal Tunnel Syndrome — Update (ABPS MOC-PS®-approved)</td>
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<td>203 Nerve Transfers vs. Tendon Transfers: Timing Treatment Options and</td>
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<td>204 Controversies in Management of Complex Regional Pain Syndromes:</td>
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<td>Surgery vs. Non-Operative Treatment Options and Validated Methods to</td>
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<td>205 Winning the Future: How to Best Train the Next Generation of</td>
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<td>206 Bench to Bedside: Translational Research in Microsurgery</td>
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<td>8:00am – 8:15am</td>
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<td>8:15am – 9:30am</td>
<td>AAHS/ASPN/ASRM Panel: Nerve Transfers vs. CTA vs. Robotics</td>
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<td>9:30am – 10:00am</td>
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<td>Steven Levitt</td>
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<td>11:00am – 12:00am</td>
<td>AAHS/ASPN/ASRM Joint Outstanding Papers</td>
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<td>12:00pm – 1:00pm</td>
<td>ASPN Business Meeting &amp; Lunch (Members Only)</td>
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<tr>
<td>1:00pm – 2:30pm</td>
<td>ASPN Scientific Paper Session 3</td>
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<td>2:30pm – 2:50pm</td>
<td>Break with Exhibitors</td>
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<td>2:50pm – 4:00pm</td>
<td>ASPN Scientific Paper Session 4</td>
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<td>4:00pm – 4:30pm</td>
<td>Invited Lecture: Research in Facial Paralysis, Tessa Hadlock, MD</td>
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<tr>
<td>4:50pm – 5:45pm</td>
<td>ASPN Special Session: Poster Presentations</td>
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<tr>
<td>6:00pm – 7:30pm</td>
<td>ASPN/ASRM Welcome Reception</td>
<td>Pavilion Ballroom &amp; Terrace</td>
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Saturday January 14, 2012

6:30 am - 8:00 am  Breakfast with Exhibitors

7:00 am – 8:00 am  AAHS/ASPN/ASRM Instructional Courses

201 Management of Failed Carpal Tunnel Surgery
Chair: A. Lee Osterman, MD
Instructors: Miquel A. Pirela-Cruz, MD; Josh M. Abzug, MD; Nash A. Naam, MD; Nancy Davidson, MD, TC/L; Carlos Henriquez Fernandez, MD

Objectives: Following this session, the participant will be able to:
1. Assess a patient who has failed carpal tunnel release, and indicate strategies during surgery based on pathological changes found.
2. Identify non operative treatment and therapy and modalities.

202 Carpal Tunnel Syndrome – Update (ABPS MOC-Ped®-approved)
Chair: Donald H. Lalonde, MD
Instructors: Peter Murray, MD; Ather Mirza, MD; Michael Bednar, MD

Objectives: Following this session, the participant will be able to:
1. Recognize basic science of carpal tunnel syndrome as well as clinical and neurophysiological assessment.
2. Evaluate evidence based outcome studies used to compare open and endoscopic surgery.

203 Nerve Transfers vs. Tendon Transfers: Timing, Treatment Options and Post Operative Therapy
Instructors: Thomas Tung, MD; Justin Brown, MD; Christine Novak, PhD, PT

Objectives: Following this session, the participant will be able to:
1. Summarize indications, patient selection and surgical techniques for tendon transfers to restore wrist flexion and extension and reconstruction of biceps and triceps muscle function in the upper arm to restore elbow flexion and extension. This course will also detail the evolving techniques of multiple nerve transfers in the upper extremity. The importance of timing in decision-making will be highlighted.

204 Controversies in Management of Complex Regional Pain Syndromes: Surgery vs. Non-Operative Treatment Options and Validated Methods to Study Outcomes?
Instructors: Ivica Ducic, MD, PhD; Wyndell Merritt, MD

Neuropathic pain, particularly when CRPS may be involved, can be especially vexing for the peripheral nerve surgeon. This course will discuss both the operative issues and non-operative modalities in the multi-disciplinary care of these patients. Validated methodologies for outcomes studies will be highlighted.

Objectives: Following this session, the participant will be able to:
1. Discuss both operative issues and non-operative modalities in multi-disciplinary care of patients with neuropathic pain.
2. Validate methodologies for outcomes studies.

205 Winning the Future: How to Best Train the Next Generation of Microsurgeons
Instructors: Charles Butler, MD; Randy Sherman, MD; Michael Neumeister, MD; J. Brian Boyd, MD; James Boehm, MD

This panel of experts will discuss what they feel is the best way to train future microsurgeons with respect to the current financial constraints and the limitations of the 80 hour work week.

Objectives: Following this session, the participant will be able to:
1. Communicate the best way to train future surgeons though restricted by the 80 hour work week.

206 Bench to Bedside: Translational Research in Microsurgery
Chair: Clara Lee, MD
Instructors: Terry Myckatyn, MD; Justin M. Sacks, MD

This esteemed panel of scientist will discuss the opportunities of translational medicine and provide the latest knowledge in ongoing translational topics within surgery.

Objectives: Following this session, the participant will be able to:
1. Describe opportunities of translational medicine.
2. Provide the latest knowledge of ongoing translational topics within surgery.

11:00 am - 12:00 pm  AAHS/ASPN/ASRM Joint Outstanding Paper Presentations

Moderators: Randip R. Bindra, MD, FRCS; Gedge Rosson, MD; David H. Song, MD, MBA, FACS

AAHS
11:00 am – 11:07 am  Fibrin Glue Augmentation Of Nerve Repair Does Not Impede Neurological Recovery In An Animal Model
Greg Rafijah, MD; Christina Dolores; Andy Bowen; Ryan Vitali; Tahseen Mozaffar; Ranjan Gupta
Orthopaedic Surgery, University of California, Irvine, Irvine, CA

11:07 am – 11:14 am  Scaphoid Malunion: Outcomes of Corrective Osteotomy Compared to Salvage Procedures
Blake Paul Gillette, MD; Sanjeev Kakar, MD, MRCS, MBA; Peter C. Amadio, MD
1Orthopaedic Surgery, Mayo Clinic, Rochester, MN; 2Orthopaedics, Mayo Clinic, Rochester, MN
11:14 am – 11:20 am  Discussion

ASPN
11:20 am – 11:27 am  Brief 1 Hour 20Hz Electrical Stimulation (ES) Improves Axon Regeneration After Delayed Nerve Repair in Sprague Dawley Rats
Adil Ladak, MSc, MD 1; Neil Tyerman, BSc 1; Valerie Verge, PhD 1; Tessa Gordon, PhD 1
1 Division of Plastic and Reconstructive Surgery, The Hospital for Sick Children, Toronto, ON, Canada; 2 Division of Neuroscience, University of Alberta, Edmonton, Canada; 3 CMSNRC and Department of Anatomy and Cell Biology, University of Saskatchewan, Saskatoon, Canada

11:27 am – 11:34 am  Hand Outcomes in Operative Management of Complete Obstetrical Brachial Plexus Palsy
Isaac Harvey, FRACS, MBBS, BSc 1; Emily Ho 2; MD: Howard Clarke 3, MD 1 Division of Plastic and Reconstructive Surgery, Hospital for Sick Children, Ontario, ON, Canada, 2 Division of Plastic and Reconstructive Surgery, Hospital for Sick Children, Toronto, ON, Canada

11:34 am – 11:40 am  Discussion

ASRM
11:40 am – 11:47 am  The Profunda Artery Perforator Flap (PAP): A New Flap for Breast Reconstruction
Maria M. LoTempio, MD 1; Nicholas Haddock, MD 2; Allireza Sadeghi, MD 2; Christina Ahn, MD 2; Robert J. Allen, MD 2
1 Plastic Surgery, Medical University of South Carolina, Charleston, SC, 2 NYU, New York, NY, 3 LSU, New Orleans, LA, 4 Plastic Surgery, Louisiana State University Health Science Center, New Orleans, LA

11:47 am – 11:54 am  ASRM Fascicular Turnover Nerve Flaps Versus Free Nerve Grafts: Pilot Study of Comparison and Outcomes in a Rat Model
Adrian Ooi, MBBS, Terence Goh, MD; Chin-Ho Wong, MD; Kok Chai Tan, MD
Plastic, Reconstructive and Aesthetic Surgery, Singapore General Hospital, Singapore, Singapore

11:54 am – 12:00 pm  Discussion

12:00 pm  Adjourn

12:00 pm - 1:00 pm  ASPN Business Meeting with Lunch
(Members Only)

1:00 pm - 2:30 pm  Scientific Paper Session 3
Moderators: Gregory Evans, MD and Allan Belzberg, MD
Objective: The participants will be exposed to ongoing research in the field of peripheral nerve surgery.

1:00 pm - 1:04 pm  Axonal Reconnection with Polyethylene Glycol and Methylene Blue after Sciatic Nerve Transection Results in Rapid Behavioral Recovery
Cameron P. Keating, MBBS, BMEdSc; Joshua M. Britt, BS; Jacqueline R. Kane, BS; Aleksei Zuzek, BS; Christopher S. Spaeth, BS; Jerry D. Fan, BS; Francisco Gonzalez-Lima, PhD; Timothy Schallert, PhD; George D. Bittner, PhD; Jonathan M. Winograd, MD
Institution where the work was prepared: Plastic Surgery Research Laboratory, Mass. General Hospital, Boston, MA, USA

1:04 pm - 1:08 pm  Rat Sciatic Nerve Regeneration Using IGF-1 Enriched White Adipose Tissue Flap as a Biologic Scaffold
Rebecca A. Rafjer, BS; Ayhan Kilic; Bukola Ojo, BS; Geoffrey Konopka; Daniel Hagg; Eugene Jang; Yelena Akelina; Jeremy Mao; Melvin P. Rosenwasser; Peter Tang
Institution where the work was prepared: Columbia University College of Physicians & Surgeons, New York, NY, USA

1:08 pm - 1:12 pm  Neuroma Formation after Soleus Grafting in a Peripheral Nerve Interface
Benjamin Wei, MD; Ziya Baghmanli; Kristoffer Sugg; Paul S. Cederna; Melanie G. Urbachke
Institution where the work was prepared: University of Michigan, Ann Arbor, MI, USA

1:12 pm – 1:16 pm  Skin Derived Precursor Cells (Skps) Improve Myelination Within a Model of Focal Adriamycin-Induced Tibial Nerve Demyelination
Joey Grochmal, MD; Sundeep Dhalival; Rajiv Midha, MD
Institution where the work was prepared: University of Calgary, Calgary, AB, Canada

1:16 pm – 1:20 pm  Utilization of Adipose-Derived Stem Cells to Fabricate Scaffoldless Tissue Engineered Neural Conduits
Aaron Adams, PhD; Ellen M Arruda; Lisa M. Larkin
Institution where the work was prepared: Ann Arbor, MI, USA

1:20 pm – 1:30 pm  Discussion

1:30 pm - 1:34 pm  Developing an In-Vitro System to Test Enhanced Neurite Outgrowth by Electrical Stimulation of a Conductive Polymer
Chandan G. Reddy, MD; Huan Wang, MD, PhD; M. Brett Runge, PhD; Michael J. Yaszemski; Robert J. Spinner; Anthony J. Windenbank
Institution where the work was prepared: Mayo Clinic, Rochester, MN, USA

1:34 pm – 1:38 pm  A Comparison of Stereology and Binary Histomorphometry Methodology and Reliability in Peripheral Nerve
Hank Haw Sun, BA; Daniel A. Hunter; Gregory Opara; Michael J. Brenner, MD; Philip J. Johnson, PhD; Susan E. Mackinnon, MD
Institution where the work was prepared: Washington University School of Medicine, St. Louis, MO, USA

1:38 pm – 1:42 pm  Neural Wound Healing: Why Surgery May Not Be Enough for Carpal Tunnel Syndrome
Jason R. Kang, BS; Weiping Wang, PhD; Nima Nassiri, BS; Peter Hahn, BS; Derek Frum; Tahseen Mozaffar, MD; Ranjan Gupta
Institution where the work was prepared: University of California Irvine, Irvine, CA, USA

1:42 pm – 1:46 pm  The Duration of GDNF Release Affects Nerve Regeneration Following Delayed Nerve Repair
Matthew D. Wood, PhD; Howard Kim, PhD; Stephen W. P. Kemp, PhD; Mark Szynkaruk; Christine Weber; Molly Shoichet, PhD; Tessa Gordon, PhD; Gregory H. Borschel, MD
Institution where the work was prepared: Matt, Toronto, Canada

1:46 pm – 1:50 pm  Reprogramming of Adipose Derived Stem cells (ADSCs) to iPS and Further Differentiation to Neuronal Cells for the Treatment of Peripheral Neuropathy
Dilip Dey, Jonathan Eichelsoeffer, Sean Pham, Mark Tomov and Gregory R.D. Evans
Aesthetic and Plastic Surgery Institute, University of California, Irvine, Orange, CA

1:50 pm - 2:00 pm  Discussion

2:00 pm – 2:04 pm  The Surgical Management of Chronic Pain Following Acoustic Neuroma Resection: A Novel Approach
Matthew Endara, MD; John Felder; Ivica Ducić, MD, PhD
Institution where the work was prepared: Georgetown University Hospital, Washington, DC, USA
2:04 pm - 2:08 pm
Radiation Affects Sensory Recovery in the Reconstructed Breast
Gedge D. Rosson, MD; Michael Magarakis; Raghu Venkat; A. Lee Dellon; Michele A. Manahan; Justin Ballamy; Elbert E. Vaca; Stacie Jeter
Institution where the work was prepared: Johns Hopkins University School of Medicine, Baltimore, MD, USA

2:08 pm - 2:12 pm
Prevalence of Tinel Signs in Diabetics in a Community Setting
S. Shar Hashemi, MD; Issam Cheikh, MD; A. Lee Dellon, MD, PhD
Institution where the work was prepared: Johns Hopkins University, Baltimore, MD, USA

2:12 pm - 2:16 pm
A Multicenter Study of Processed Nerve Allografts: Utilization and Outcomes in Mixed and Motor Nerve Repairs
Darrell Brooks, MD; Renata V. Weber; Jerome D. Chao, MD; Mickey Cho, MD; Christopher Wilson, MD; John Ingari, MD; Scott Wisotsky, MD; Bauback Safa, MD
Institution where the work was prepared: Darrell Brooks, San Francisco, CA, USA

2:16 pm - 2:20 pm
Distal Nerve Transfers for Restoration of Quadriceps Function
Amy M. Moore; Thomas H. Tung
Institution where the work was prepared: Washington University, St. Louis, MO, USA

2:20 pm - 2:30 pm
Discussion

2:30 pm - 2:50 pm
Break with Exhibitors

2:50 pm - 4:00 pm
Scientific Paper Session 4
Moderators: Thomas Tung, MD and Henk Coert, MD
Objective: The participants will be exposed to ongoing research in the field of peripheral nerve surgery.

2:50 pm - 2:54 pm
Neurotrophic Expression and Neuronal Response in the Spinal Cord Following Direct and Trans-Cutaneous Electrical Stimulation of the Mouse Sciatic Nerve
Anne-Marie Pion, MD; Eric Beaumont, PhD; Artur Kania, PhD; Jenny C. Lin, MD, PhD
Institution where the work was prepared: Research Centre CHU-Sainte-Justine, University of Montreal, Montreal, QC, Canada

2:54 pm - 2:58 pm
Nerve Graft Modality Matching Directs Regeneration of Mixed Peripheral Nerves
Simone W. Glaus; Scott Farber, MD; Daniel A. Hunter; Philip J. Johnson; Susan E. Mackinnon
Institution where the work was prepared: Washington University, Saint Louis, MO, USA

2:58 pm - 3:02 pm
Electromechanical Properties of Regenerative Peripheral Nerve Interfaces
Ziya Baghmanli, MD; Christopher M. Frost, Student; Benjamin Wei, MD; Kristoffer B. Sugg, MD; Paul S. Cederna, MD; Melanie G. Urbanchek, PhD
Institution where the work was prepared: University of Michigan, Ann Arbor, MI, USA

3:02 pm - 3:06 pm
Immune System Augmentation by Glatiramer Acetate of Peripheral Nerve Regeneration – Crush vs. Transection Models of Rat Sciatic Nerve
Shai Luria, MD; Avi Cohen; Ori Safran; Shimon Firman; Meir Liebergall
Institution where the work was prepared: Hadassah-Hebrew University Medical Center, Jerusalem, Israel

3:06 pm - 3:10 pm
Anatomical, Behavioral and Myological Analysis of the Transgenic Thy1-GFP Rat Following Peripheral Nerve Injury
Stephen W. P. Kemp; Matthew D. Wood; Peter D. Phua; Krisanne N. Stanoulis; Tessa Gordon; Gregory H. Borschel
Institution where the work was prepared: SickKids Hospital and the University of Toronto, Toronto, ON, Canada

3:10 pm - 3:20 pm
Discussion

3:20 pm - 3:24 pm
Proximal Tibial Nerve Compression: Results of Surgical Decompression
Eric H. Williams, MD; Gedge D. Rosson, MD; Robert Hagan, MD; S. Shar Hashemi, MD; A. Lee Dellon, MD, PhD
Institution where the work was prepared: Johns Hopkins, Baltimore, MD, USA

3:24 pm - 3:28 pm
Elective Peripheral Nerve Decompression After Burn Injury: Comparison of Patients With Electrical versus Non-Electrical Etiologies
C. Scott Hultman, MD, MBA; Cindy Wu, MD; C. Calvert; AA Meyer; BA Cairns
Institution where the work was prepared: University of North Carolina, Chapel Hill, NC, USA

3:28 pm - 3:32 pm
Concomitant Release of Guyon’s Canal with Ulnar Nerve Transposition
Kirsty Usher Boyd, MD; Andrew Yee; Hank Haw Sun, BA; Susan E. Mackinnon, MD
Institution where the work was prepared: Washington University, St. Louis, MO, USA

3:32 pm - 3:36 pm
A Comparison of Retractor-Integrated Endoscopic and Open Ulnar Nerve Decompression Techniques In Cubital Tunnel Syndrome
Stephan Dutzmann; Daniel Martin, MD; Gerhardt Marquardt, MD, PhD; Gabriele Schackert, MD, PhD; Volker Seifert; Kartik Krishnan
Institution where the work was prepared: University of Frankfurt Dept. of Neurosurgery, Frankfurt, Germany

3:36 pm - 3:40 pm
Post-Cubital Tunnel Release: How Much 3T Mr Neurography Adds?
Majid Chalian; Neda Faridian-Aragh, MD; Allan J. Belzberg; John A. Carrino; Eric Williams; Avneesh Chhabra
Institution where the work was prepared: The Johns Hopkins Hospital, Baltimore, MD, USA

3:40 pm - 3:50 pm
Discussion

4:00 pm - 4:30 pm
Invited Lecture
Tessa Hadlock, MD
Research in Facial Paralysis
This talk will highlight contemporary clinical challenges in the paralyzed face and research approaches to address them. It will also outline the current state of the art in basic science approaches to maximizing facial nerve regeneration in animal models.

4:50 pm - 5:45 pm
Special Session: Poster Presentations
Throughout this program a series of basic and clinical research papers chosen by the Program Committee will be presented.
Objective: Following this session, the participant will be exposed to ongoing research in the field of peripheral nerve surgery.

6:00 pm - 7:30 pm
ASPN/ASRM Welcome Reception
### American Society for Peripheral Nerve

#### DAY-AT-A-GLANCE

**Sunday, January 15, 2012**

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<td>7:30am – 8:25am</td>
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<td>307 Tissue Engineering and Nerve Repair</td>
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<td>308 Current Approach to Facial Palsy and Future Directions</td>
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<td>309 Controversies in Lower Extremity Compression</td>
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<td>Neuropathy Treatment, “New” Sites of Compression &amp; Management of Failed Decompressions</td>
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<td>310 Painful Peripheral Nerve Injury: Evidence-based Approaches</td>
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<td>and Validated Methods to Assess Outcomes and QoL</td>
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<td>8:30am – 9:30am</td>
<td>Scientific Papers Session 5</td>
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<td>9:30am – 10:00am</td>
<td>Invited Lecture: Evidence-Based Science Behind the Timing of Surgical Repair of Peripheral Nerve Injuries</td>
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<td>Tessa Gordon, PhD</td>
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<td>Break with Exhibitors</td>
<td>Charleston</td>
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<tr>
<td>10:15am – 11:15am</td>
<td>ASPN/ASRM Panel: Reconstructive Challenges: Head to Toe</td>
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<td>11:15am – 11:45am</td>
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<td>11:45pm – 12:00pm</td>
<td>Closing Remarks</td>
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<td>12:00pm – 1:00pm</td>
<td>ASPN Council Meeting</td>
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306 Neuro-Imaging

**Instructors:** Aaron Filler, MD; John Carrino, MD; Allan Belzberg, MD

Clinical practice for managing nerve injuries and entrapments often does not include imaging such as MRI. This course will discuss the evidence on the utility and methodology of nerve imaging with MRI as well as the problems and limitations.

**Objectives:** Following this session, the participant will be able to:
1. Introduce the MRI as a methodology in nerve imaging.
2. Compare and contrast the benefits and limitations to using the MRI in nerve imaging.

307 Tissue Engineering and Nerve Repair

**Instructors:** Gregory Evans, MD, FACS; Rajiv Midha, MD

This course will discuss new ideas of bioengineering for the construction of improved artificial nerve conduits. Various types of biomaterials, transplanted cells, and the potential application of stem cells will be explored.

**Objectives:** Following this session, the participant will be able to:
1. Describe new ideas of bioengineering for the construction of improved artificial nerve conduits by way of various types of biomaterials, transplanted cells and potential use of stem cells.

308 Current Approach to Facial Palsy and Future Directions

**Instructors:** Tessa Hadlock, MD; Rick Redett, MD

Facial reanimation surgery continues to evolve and improve, particularly with the increasing use of alternate recipient nerves. This course addresses the latest techniques for the treatment of incomplete and complete facial paralysis.

**Objectives:** Following this session, the participant will be able to:
1. Explain the latest techniques for the treatment of incomplete and complete facial paralysis.


**Instructors:** A. Lee Dellon, MD; Gedge Rosson, MD

This course will explore the controversies inherent in lower extremity nerve compressions, particularly when the diagnosis of compression overlaps with some other underlying peripheral neuropathy. In particular, “new” and less common sites of compression and their surgical approaches will be highlighted.

**Objectives:** Following this session, the participant will be able to:
1. Identify controversies inherent in lower extremity nerve compressions.
2. Describe new and less common sites of compression by way of surgical practice.

310 Painful Peripheral Nerve Injury: Evidence-based Approaches and Validated Methods to Assess Outcomes and QoL

**Instructors:** Oskar Aszmann, MD; Henk Coert, MD

Surgical management of painful peripheral nerve injuries remains challenging. Join this course to discuss factors predictive of outcome, evidence-based approaches, and validated methods to objectively assess patient’s quality of life.

**Objectives:** Following this session, the participant will be able to:
1. Recognize important developments related to intraneural and extraneural lesions.

8:30 am - 9:30 am  **Scientific Paper Session 5**

**Moderators:** Melanie Urbanek, MD and Richard Reddeh, MD

Throughout this program a series of basic and clinical research papers chosen by the Program Committee will be presented.

**Objective:** The participants will be exposed to ongoing research in the field of peripheral nerve surgery.

8:30 am - 8:34 am  **Functional Evaluation of Motor Nerve Recovery in the Rat: A Comparison of the Sciatic Functional Index, Ankle Angles and Isometric Tetanic Force**

Joo-Yup Lee, MD, PhD; Guilherme Giusti, MD; Huan Wang, MD, PhD; Patricia F. Friedrich, AAS; Allen T. Bishop, MD; Alexander Y. Shin, MD

_Institution where the work was prepared: Mayo Clinic, Rochester, MN, USA_

8:34 am - 8:38 am  **Hydrophilic Polymers Allow Immediate Physiologic Function of Severed Nerves after Interposition Grafting**

Kevin W. Sexton, MD; G. A. Del Corral, MD; J. M. Britt; G. D. Bittner, PhD; R. B. Shack, MD; W. P. Thayer, MD, PhD

_Institution where the work was prepared: Vanderbilt University, Nashville, TN, USA_

8:38 am - 8:42 am  **The Effect of Perineurctomy on Nerve Regeneration In Diabetic Rats**

Cihan Sahin, MD; Huseyin Karagoz, MD; Fuat Yuksel, MD; Dilek Akakin, MD; Nukhet Dagbası, MD; Ersin Ulkur, MD

_Institution where the work was prepared: GATA Haydarpasa Training Hospital, Istanbul, Turkey_

8:42 am - 8:46 am  **The Schwannomatosis International Database**

Allan J. Belzberg, MD; Dusica Babovic-Vuksanovic, MD; Jaishi Blakeley; Felix Bokstein; John A. Carrino, MD; Shlomi Constantini; Gypsamber D’Souza; Gareth Evans; Rosalie Ferrier; Jan Friedman; Marco Giovannini; Gordon Harris; Jennifer Haythornthwaite; Cynthia Hingtgen; Theo Hulsebos; Lori Jordan; Michel Kalamarides; Bruce Korff; Fawn Leigh; Gyu Leschziner; Antonio J. Machado, MD; Viktor Mautner; Laura Papci; Scott Plotkin; Bernd Scheithauer; Anat Stemmer-Rachamimov; Xiaobu Ye; Kaleb Yohay; Amanda Bergner

_Institution where the work was prepared: Johns Hopkins University, Baltimore, MD, USA_

8:46 am - 8:52 am  **Discussion**

8:52 am - 8:56 am  **Directing The Growth Of Regenerating Motor Axons Into a Specific Peripheral Nerve Branch by Selective Injection of a Lentiviral Vector Encoding Gdnf**

Godard CW de Ruiter, MD; S. A. Hoing; Ruben Eggers; M.R. Tannemaat, MD, PhD; J. Verhaagen; Martijn J.A. Maley, PhD

_Institution where the work was prepared: Netherlands Institute for Neuroscience, Amsterdam, Netherlands_
Evidence from animal and human studies are indicating potential of brief electrical stimulation to accelerate the outgrowth of axons.  Whilst it is well recognized that peripheral nerves can regenerate lost axons after injury, functional recovery is too frequently disappointing.  Dr. Gordon is a neuroscientist presently working at the Hospital for Sick Children in Toronto, and a Professor Emeritus at the University of Alberta in Edmonton. She will present evidence for progressive deterioration of axon regeneration with time and distance and the potential of brief electrical stimulation to accelerate the outgrowth of axons.

Following this session, the participants will be able to:
1. List the latest problem solving techniques for complex reconstructive issues facing surgeons today.
2. Debate the strongest techniques used to combat reconstructive issues.

**Scientific Paper Session 6**

**Axonal Regeneration Across Long Peripheral Nerve Defects Using Acellular Nerve Allografts**

Ying Yan, MD/PhD; Dan Hunter, RA; Susan E. Mackinnon, MD; Philip J. Johnson, PhD

**Catwalk Gait Analysis In ASSESSMENT of FUNCTIONAL Recovery AFTER Sciatic Nerve Injury In the Mouse**

Ching-Hua Hsieh, MD; Jonathan Chris Jeng, BA; Siou-Ling Tzeng; Tsu-Hsiang Lu

**Pearls and Pitfalls of Motion Analysis: Is There a Place for it in the Functional Evaluation of Sciatic Nerve Injury and Repair?**

Jing Rui, MD; M. Brett Runge, PhD; Robert J. Spinner, MD; Michael J. Yaszemski, MD, PhD; Anthony J. Windebank; Huan Wang, MD, PhD

**Accelerating Calcium Absorption Significantly Improves Peripheral Nerve Regeneration – an Experiment in Rats**

Zyi Wang; Ji-Geng Yan; James Sanger; Lin-Ling Zhang; Yu-Hui Yan, MD; Micheal Agresti; Hani S. Matloub

**Anatomical Study of the Compression Points of the Supraorbital and Supratrochlear Nerves**

Santosh S. Kale, MD, MBA; Thomas H. Tung

**Discussion**
## 2011-2012 ASRM Executive Council Members

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
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<tr>
<td>President</td>
<td>Keith E. Brandt, MD</td>
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<td>Michael W. Neumeister, MD</td>
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<td>Joseph Serletti, MD</td>
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<td>Secretary</td>
<td>E. Gene Deune, MD</td>
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<td>Allen T. Bishop, MD</td>
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<td>Charles E. Butler, MD</td>
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<td>Peter C. Neligan, MD</td>
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<td>Raymond M. Dunn, MD</td>
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<td>Michel Saint-Cyr, MD, FRCS (C)</td>
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<td>Joan E. Lipa, MD</td>
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<td>Historian</td>
<td>Michael J. Miller, MD</td>
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Please join us in thanking the following ASRM committees who have helped make the 2011 year successful.

**Audit Committee**
Elisabeth Beahm, MD, Chair
Scott Oates, MD
Roman Skoracki, MD

**Buncke Lectureship Committee**
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Robert Walton, MD

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**Clinical Guidelines & Outcomes Committee**
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John Hijjawi, MD
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Howard Langstein, MD
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James Higgins, MD
Peirong Yu, MD

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Vu T. Nguyen, MD

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Joseph Serletti, MD

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Raymond Dunn, MD
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Otway Louie, MD
Vu Nguyen, MD
Gedge Rosson, MD
**ASRM HISTORICAL INFORMATION**

### 1983 Founding Council
- James B. Steichen, MD
- Berish Strauch, MD
- Julia K. Terzis, MD
- James R. Urbaniak, MD
- Allen L. Van Beek, MD

<table>
<thead>
<tr>
<th>Year</th>
<th>President</th>
<th>Annual Meeting Site</th>
<th>Founders/Godina Lecturers</th>
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<tbody>
<tr>
<td>1985</td>
<td>Berish Strauch, MD</td>
<td>Las Vegas, NV</td>
<td>Harry J. Buncke, MD</td>
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<td><em>Founders’ Lecturer</em></td>
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<tr>
<td>1986</td>
<td>James R. Urbaniak, MD</td>
<td>New Orleans, LA</td>
<td>Harold E. Kleiiner, MD</td>
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<tr>
<td>1987</td>
<td>Joseph E. Kutz, MD</td>
<td>San Antonio, TX</td>
<td>Robert D. Acland, MD</td>
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<tr>
<td>1988</td>
<td>H. Bruce Williams, MD</td>
<td>Baltimore, MD</td>
<td>Berish Strauch, MD</td>
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<tr>
<td>1989</td>
<td>James B. Steichen, MD</td>
<td>Seattle, WA</td>
<td>G. Ian Taylor, FRCS, FRACS</td>
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<tr>
<td>1990</td>
<td>Allen L. Van Beek, MD</td>
<td>Toronto, Ontario, Canada</td>
<td>Andrew Lightbody, MD</td>
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<td><em>Founders’ Lecturer</em></td>
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<tr>
<td>1991</td>
<td>Michael B. Wood, MD</td>
<td>Orlando, FL</td>
<td>Alain Gilbert, MD</td>
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<td><em>Founders’ Lecturer</em></td>
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<tr>
<td>1992</td>
<td>Andrew J. Weiland, MD</td>
<td>Scottsdale, AZ</td>
<td>Edgar Biemer, MD</td>
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<td><em>Founders’ Lecturer</em></td>
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<tr>
<td>1993</td>
<td>Graham Lister, MD</td>
<td>Kansas City, MO</td>
<td>Algimantas Narakas, MD</td>
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<td><em>Founders’ Lecturer</em></td>
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<tr>
<td>1994-95</td>
<td>Robert C. Russell, MD</td>
<td>Marco Island, FL</td>
<td>Lawrence B. Colen, MD</td>
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<td><em>Godina Lecturer</em></td>
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<td>Nguyen Huy Phan, MD</td>
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<td>Mark A. Schusterman, MD</td>
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<td>1995-96</td>
<td>Ralph T. Manktelow, MD</td>
<td>Tucson, AZ</td>
<td>Fu Chan Wei, MD</td>
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<td>Randy Sherman, MD</td>
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<td><em>Godina Lecturer</em></td>
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<tr>
<td>1996-97</td>
<td>James A. Nunley, MD</td>
<td>Boca Raton, FL</td>
<td>James R. Urbaniak, MD</td>
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<td>Zoran M. Arnez, MD</td>
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<td><em>Godina Lecturer</em></td>
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<tr>
<td>1997-98</td>
<td>William M. Swartz, MD</td>
<td>Scottsdale, AZ</td>
<td>H. Bruce Williams, MD</td>
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<td>L. Scott Levin, MD</td>
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<tr>
<td>1998-99</td>
<td>David T. W. Chiu, MD</td>
<td>Waikoloa, HI</td>
<td>Julia K. Terzis, MD</td>
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<td>Phillip Blondeel, MD</td>
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<td>1999-2000</td>
<td>Daniel Nagle, MD</td>
<td>Miami, FL</td>
<td>Gregory R. D. Evans, MD</td>
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<td>Year</td>
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<td>2000-2001</td>
<td>Saleh M. Shenaq, MD</td>
<td>San Diego, CA</td>
<td>Wayne Morrison, MD, FRACS</td>
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<td>2001-2002</td>
<td>Randy Sherman, MD</td>
<td>Cancun, Mexico</td>
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<td>2002-2003</td>
<td>Julia K. Terzis, MD, PhD</td>
<td>Kauai, HI</td>
<td>Panayotis Soucacos, MD</td>
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<td>2003-2004</td>
<td>Ronald M. Zuker, MD</td>
<td>Palm Springs, CA</td>
<td>Ralph Manktelow, MD</td>
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<td>2004-2005</td>
<td>Robert L. Walton, MD, FACS</td>
<td>Fajardo, Puerto Rico</td>
<td>Isao Koshima, MD</td>
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<td>2005-2006</td>
<td>William C. Pederson, MD</td>
<td>Tucson, AZ</td>
<td>David Chang, MD, FACS</td>
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<td>2006-2007</td>
<td>L. Scott Levin, MD, FACS</td>
<td>Rio Grande, Puerto Rico</td>
<td>Ming Huei Cheng, MD, MHA</td>
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<td>2007-2008</td>
<td>Lawrence B. Colen, MD</td>
<td>Beverly Hills, CA</td>
<td>Peirong Yu, MD</td>
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<td>2008-2009</td>
<td>Neil F. Jones, MD</td>
<td>Maui, HI</td>
<td>Michael Sauerbier, MD</td>
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<td>2009-2010</td>
<td>William A. Zamboni, MD</td>
<td>Boca Raton, FL</td>
<td>Yur Ren Kuo, MD, PhD, FACS</td>
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<td>2010-2011</td>
<td>Peter C. Neligan, MD</td>
<td>Cancun, Mexico</td>
<td>James Higgins, MD</td>
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Educational Overview
After the completion of this program, participants will have an enhanced knowledge of the scope, practice and application of microsurgical techniques in breast, upper/lower extremity and head and neck reconstruction. Included will be specifics of patient and flap selection, inset techniques, and avoidance and management of complications.

Intended Audience
This educational activity is intended for surgeons and other healthcare professionals engaged in the practice of clinical reconstructive microneurovascular surgery and other complex reconstructions and/or involvement in research into and teaching of microneurovascular surgery.

Learning Objectives
Following completion of this activity, participants will be able to:
• Discuss state-of-the-art techniques in microsurgery and complex reconstruction.
• Effectively implement interdisciplinary interaction and cooperative learning among colleagues in professional practice.
• Interact professionally with microsurgeons from various countries worldwide for the beneficial exchange of medical knowledge and surgical techniques.
• Analyze current reconstructive practices and evaluate professional effectiveness with respect to best practices and patient safety.
• Implement new methods of reconstruction and reinnervation in their practices.

ABMS Core Competencies
This program will address the following ACGME/ABMS Competencies:
• Patient Care and Procedural Skills
• Medical Knowledge
• Practice-Based Learning and Improvement
• Systems-Based Practice

Accreditation Statement
This activity has been planned and implemented in accordance with the Essential Areas and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint sponsorship of the American Society of Plastic Surgeons (ASPS) and the American Society for Reconstructive Microsurgery (ASRM). The ASPS is accredited by the ACCME to provide continuing medical education for physicians.

Designation Statement
The ASPS designates this live activity for a maximum of 19.75 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Disclosure Policy
The ASPS requires all faculty, authors, planners, reviewers, managers, and other individuals in a position to control or influence the content of an activity to disclose all relevant financial relationships or affiliations. All identified conflicts of interest must be resolved, and the educational content thoroughly vetted by ASPS for fair balance, scientific objectivity, and appropriateness of patient care recommendations. The ASPS also requires faculty/authors to disclose when off-label/unapproved uses of a product are discussed in a CME activity or included in related materials.

Disclaimer
The Society hereby acknowledges that while its broad purpose is to promote the development and exchange of knowledge pertaining to the practice of microsurgery; it does so only in the context of a private forum without making any representation to the public whatsoever. Accordingly, the Society declares that its primary purpose is to benefit only its members, and responsibility for the Society for acts or omissions of Society members dealing with the public is hereby expressly disclaimed.

Commercial Support
This activity received support from The California Pacific Medical Center, ASSI and Synovis, MCA.
American Society for Reconstructive Microsurgery 2012 Annual Meeting

Disclosure Policy and Presenter’s Disclosures

The American Society of Plastic Surgeons (ASPS) requires all instructors, planners, reviewers, managers, and other individuals in a position to control or influence the content of an activity to disclose all relevant financial relationships or affiliations. All identified conflicts of interest must be resolved and the educational content thoroughly vetted by ASPS for fair balance, scientific objectivity, and appropriateness of patent care recommendations. The ASPS also requires faculty/authors to disclose when off-label/unapproved uses of a product are discussed in a CME/CE activity or included in related materials.

All identified conflicts of interests have been resolved.

Disclosures of all Chairs, Co-Chairs, Speakers, Authors, Moderators, Reviewers, Committee Members, and other appropriate individuals:

Darrell Brooks, MD – Research Support Recipient: AxoGen
Charles Butler, MD – Consultant: LifeCell
Michael Franz, MD – Speaker: AxoGen
Steven Kronowitz, MD – Consultant: Alergan, LifeCell
Maurice Nahabedian, MD – Speaker: LifeCell
Gedge Rosson, MD – Research Support Recipient: LifeCell, Educational Grant: LifeCell, Educational Grant: Mentor Corp.
Justin M. Sacks, MD – Speaker for LifeCell
Michel Saint-Cyr, MD – Speaker: LifeCell; Consultant: Mentor Allergan
Michael Zenn, MD – Research Recipient for Novadaq
Michael Wong, MD – Speaker: Biomet Microfixation

The following Chairs, Co-Chairs, Speakers, Authors, Moderators, Reviewers, and other appropriate individuals reported they have no relevant financial relationships or affiliations to disclose:

Brian T. Andrews, MD, MA
Christopher Attinger, MD
Suhan Ayhan, PROFESSOR
Joyce Aycock, MD
Carissa J. Ball, MS
Rachel Bluebond-Langner, MD
James Boehmier, MD
J. Brian Boyd, MD
Keith E. Brandt, MD
Warren Breidenbach, MD
John P. Brosious, MD
Charles Butler, MD
Corrado Cesare Campisi, MD
Paul Cederna, MD
Linda Cendales, MD
Bernard Chang, MD
David Chang, MD
Edward I. Chang, MD
Jeff Chang, MS, MD
Shi-Min Chang, MD, PhD
Albert H. Chao, MD
Hsin-Yu Chen, MD
Hung-Chi Chen, MD
Hui-Yung Cheng, PhD
Ming-Huei Cheng, MD
Youn Chung, MD
Yoon Kyu Chung, MD, PhD
Emily M. Clarke-Pearson, MD
Melissa Crosby, MD
Lawrence Colen, MD
O. Koray Coskunfırat, MD
Joanna Cwykiel, MS
Erez Dayan, MD
Tom Davenport, MD
Frank Dellacroce, MD
Yener Demirtas, MD
Giorgio De Santis, MD
E.Gene Deune, MD
Joseph Disa, MD
Kazuteru Doi, MD, PhD
Ivica Ducic, MD
Raymond Dunn, MD
River M. Elliott, MD
Gregory Evans, MD, FACS
John P. Fischer, MD
Brad Michael Gandolfi, MD
Patrick B. Garvey, MD
Emre Gazyakan, MD
Goetz A. Giessler, MD, PhD
Terence Goh, MBBS, MRCS, MMed
Lawrence Gottlieb, MD
Shigeru Goto, MD
Geoff Gurtner, MD
Eric G. Halvorson, MD
Scott Hansen, MD
Matthew Hanasono, MD
Thomas Hayakawa, MD
Geoff Hallock, MD
Ginard Henry, MD
James P. Higgins, MD
John Higgans, MD
J. Bradford Hill, BS
Stefan Hofer, MD
Joon Pio Hong, MD
Karen M. Horton, MD
Ching-hsuan Hu, MD
Jung-Ju Huang, MD
Scott Hultman, MD
Kevin Hur, MD
Marco Innocenti, MD
Matthew L. Iorio, MD
Ian Jackson, MD
Ahlia Kattan, BA
Patrick Kelley, MD
Roger Khouri, MD
Michael Klebuc, MD
Isao Koshima, MD
Steven Kronowitz, MD
Joan E. Lipa, MD
Cheng-Hung Lin, MD
Maria M. LoTempio, MD
Susan Mackinnon, MD
Maria Madajka, MD
Samir Mardini, MD
Maryann Martinovic, MD
Derek Masden, MD
Jaume Masia, MD
Evan Matros, MD
Sue McDiarmid, MD
Saahil Mehta, MRCS, MBBS, BSc
Michael N. Mirzabeigi, MD
Steven Moran, MD
Wayne Morrison, MD
Goo-Hyun Mun, MD
Gerhard S. Mundinger, MD
Terry Myckatyn, MD
Noel Blythe Natoli, MD
Peter C. Neligan, MD
Michael Neumeister, MD
Vu Nguyen, MD
Rika Ohkuma, MD
Scott Oates, MD
Adrian Ooi, MBBS
Can Ozturk, MD
Lucia Pavone, MD
Chris Pederson, MD
Ketan M. Patel, MD
Julie E. Park, MD
Brett T. Phillips, MD
Bohdan Pomahac, MD
Julian Pribaz, MD
Alyssa J. Reiffel, MD
Geoff Robb, MD
Jennifer W. Robinson, MD, FRCS(C)
Jennifer W. Robinson, MD
Andres Rodriguez, MD, PhD
Jason Roostaeian, MD
Michelle Curtis Roughton, MD
Michael Rozen, MD
Adam Saad, MD
Jennifer Sabino, MD
Bauback Safa, MD, MBA, FACS
William Samson, MD
Thomas Satterwhite, MD
Michael Sauerbier, MD
Christiana Savvidou, MD
Loren Schecter, MD
Wes Schooler, MD
Yuko Seki, MD
Jesse Selber, MD
Mitchel Seruya, MD
Randy Sherman, MD
Jami Shores, MD
Maria Siemionow, MD
Shiba Sinha, MBChB
Ji Son, MS
Aldona Spiegel, MD
David H. Song, MD, MBA, FACS
Milan Stevanovic, MD
J. P. Stone, HBSc
Hyunsuk Suh, MD
Sinikka Suominen, MD
Daniel William Suver, MD
Ngian Chye Tan
Julia K. Terzis, MD, PhD
Travis Tolleson, MD
Yun-Ta Tsai, MD
Thomas Tung, MD
Ian L. Valerio, MD, MS, MBA
Steven Vega, MD
Mark T. Villa, MD
Jan Jeroen Vranckx, MD, PhD
Robert Walton, MD
Derrick C. Wan, MD
Jianli Wang, MD
Theresa Y. Wang, MD
Wei Z. Wang, MD
Fu Chan Wei, MD
Jonathan R. Weiser, MD
Tormod Westvik, MD
Robert Whitfield, MD
Corrine Wong, MRCS
Liza Wu, MD
Jonathan Yang, MD
Jun Yang, MD, PhD
Ravit Yanko-Arzi, MD
Hsuan-Keng Yeh, MD
Michael J. Yoo, MD
Peirong Yu, MD
Hsieh Yu-Hsuan
Toni Zhong, MD
Ronald Zuker, MD

ASPS and ASRM Education and Meeting staff members have no relevant financial relationships or affiliations to disclose.
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<tr>
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<td>7:00am – 8:00am</td>
<td><strong>AAHS/ASPN/ASRM Instructional Courses</strong></td>
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<td>201 Management of Failed Carpal Tunnel Surgery</td>
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<td>202 Carpal Tunnel Syndrome – Update</td>
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<td>203 Nerve Transfers vs. Tendon Transfers: Timing Treatment Options and Post Operative Therapy</td>
<td>Veranda C</td>
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<td>204 Controversies in Management of Complex Regional Pain Syndromes: Surgery vs. Non-Operative Treatment Options and Validated Methods to Study Outcomes</td>
<td>Veranda B</td>
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<td>205 Winning the Future: How to Best Train the Next Generation of Microsurgeons.</td>
<td>Trails</td>
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<td>206 Bench to Bedside: Translational Research in Microsurgery</td>
<td>Veranda A</td>
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<td>8:00am – 8:15am</td>
<td>AAHS/ASPN/ASRM President’s Welcome</td>
<td>Summerlin ABEF</td>
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<td>8:15am – 9:30am</td>
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<td>10:00am – 11:00am</td>
<td>AAHS/ASPN/ASRM Joint Presidential Keynote Lecture Steven Levitt</td>
<td>Summerlin ABEF</td>
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<tr>
<td>11:00am – 12:00pm</td>
<td>AAHS/ASPN/ASRM Joint Outstanding Papers</td>
<td>Summerlin ABEF</td>
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<tr>
<td>12:00pm – 5:00pm</td>
<td>ASRM Master Series in Microsurgery</td>
<td>Summerlin ABEF</td>
</tr>
<tr>
<td>5:00pm – 6:00pm</td>
<td>ASRM Young Microsurgeons Group/ New Member Reception (Invitation Only)</td>
<td>Veranda C &amp; Terrace</td>
</tr>
<tr>
<td>6:00pm – 7:30pm</td>
<td>ASPN/ASRM Welcome Reception</td>
<td>Pavilion Ballroom &amp; Terrace</td>
</tr>
</tbody>
</table>
201 Management of Failed Carpal Tunnel Surgery

Chair: A. Lee Osterman, MD  
Instructors: Miguel A. Pirela-Cruz, MD; Josh M. Abzug, MD; Nash A. Naam, MD; Nancy Davidson, MD, TC/L; Carlos Henriguo Fernandes, MD

Failure of symptom resolution after carpal tunnel release or recurrence of pain can be a result of several factors, including incorrect diagnosis, incomplete release or scarring of the nerve. This course will cover assessment of a patient who has failed carpal tunnel release, indications for repeating surgery and strategies during surgery based on pathological changes found. Non operative treatment and therapy modalities will also be discussed.

Objectives: Following this session, the participant will be able to:
1. Assess a patient who has failed carpal tunnel release, and indicate strategies during surgery based on pathological changes found.
2. Identify non operative treatment and therapy modalities.

202 Carpal Tunnel Syndrome – Update
(ABPS MOC-Peds®-approved)

Chair: Donald H. Lalonde, MD  
Instructors: Peter Murray, MD; Ather Mirza, MD; Michael Bednar, MD

Participation in this course can count towards part IV of the ABPS practice improvement modules as part of the MOC for ABPS diplomats if they have uploaded their 10 consecutive cases on the ABPS web site. The course will cover principles and basic science of carpal tunnel syndrome as well as clinical and neurophysiological assessment. Evidence based outcome studies will be used to compare open and endoscopic surgery.

Objectives: Following this session, the participant will be able to:
1. Recognize basic science of carpal tunnel syndrome as well as clinical and neurophysiological assessment.
2. Evaluate evidence based outcome studies used to compare open and endoscopic surgery.

203 Nerve Transfers vs. Tendon Transfers: Timing, Treatment Options and Post Operative Therapy

Instructors: Thomas Tung, MD; Justin Brown, MD; Christine Novak, PhD, PT

This course will discuss the indications, patient selection and surgical techniques for tendon transfers to restore wrist flexion and extension and reconstruction of biceps and triceps muscle function in the upper arm to restore elbow flexion and extension. This course will also detail the evolving techniques of multiple nerve transfers in the upper extremity. The importance of timing in decision-making will be highlighted.

Objectives: Following this session, the participant will be able to:
1. Summarize indications, patient selection and surgical techniques for tendon transfers to restore wrist flexion and extension and reconstruction of biceps, triceps and muscle function of the upper arm.

204 Controversies in Management of Complex Regional Pain Syndromes: Surgery vs. Non-Operative Treatment Options and Validated Methods to Study Outcomes?

Instructors: Ivica Ducic, MD, PhD; Wyndell Merritt, MD

Neuropathic pain, particularly when CRPS may be involved, can be especially vexing for the peripheral nerve surgeon. This course will discuss both the operative issues and non-operative modalities in the multi-disciplinary care of these patients. Validated methodologies for outcomes studies will be highlighted.

Objectives: Following this session, the participant will be able to:
1. Discuss both operative issues and non-operative modalities in multi-disciplinary care of patients with neuropathic pain.
2. Validate methodologies for outcomes studies.

205 Winning the Future: How to Best Train the Next Generation of Microsurgeons

Instructors: Charles Butler, MD; Randy Sherman, MD; Michael Neumeister, MD; J. Brian Boyd, MD; James Boehmler, MD

This panel of experts will discuss what they feel is the best way to train future microsurgeons with respect to the current financial constraints and the limitations of the 80 hour work week.

Objectives: Following this session, the participant will be able to:
1. Communicate the best way to train future surgeons though restricted by the 80 hour work week.

206 Bench to Bedside: Translational Research in Microsurgery

Chair: Clara Lee, MD  
Instructors: Terry Myckatyn, MD; Justin M. Sacks, MD

This esteemed panel of scientist will discuss the opportunities of translational medicine and provide the latest knowledge in ongoing translational topics within surgery.

Objectives: Following this session, the participant will be able to:
1. Describe opportunities of translational medicine.
2. Provide the latest knowledge of ongoing translational topics within surgery.
Joint AAHS/ASPN/ASRM Panel: Nerve Transfers vs. CTA vs. Robotics

Moderator: Gedge Rosson, MD
Invited Panelists: Susan Mackinnon, MD; W. P. Andrew Lee, MD, FACS; Oskar Aszmann, MD

With significant advances in nerve transfers, vascularized composite allotransplantation, and prosthetics, it is not always clear how these evolving techniques relate. This panel of experts will highlight their experiences with these modalities.

Objectives: Following this session, the participants will be able to:
1. Describe the relatable differences and similarities between evolving surgical technique such as nerve transfers, vascularized composite allotransplantation and prosthetics.

10:00 am - 11:00 am

Joint Presidential Keynote Lecture
Steven Levitt

Steven Levitt is an economist who is a brilliant but uncomplicated man who uses simple questions to reach startling conclusions. Though he has no political agenda his theories have set off a firestorm of controversy and has both conservatives and liberals up in arms. Levitt has shown other economists just how well their tools can make sense of the real world. Winner of the 2004 John Bates Clark Medal, he is currently the William B. Ogden Distinguished Service Professor of Economics at the University of Chicago. He co-authored the best-selling book Freakonomics and its sequel Superfreakonomics.

11:00 am - 12:00 pm

AAHS/ASPN/ASRM Joint Outstanding Paper Presentations

Moderators: Randip R. Bindra, MD, FRCS; Gedge Rosson, MD; David H. Song, MD, MBA, FACS

AAHS

11:00 am – 11:07 am

Fibrin Glue Augmentation Of Nerve Repair Does Not Impede Neurological Recovery In An Animal Model
Greg Rafijah, MD; Christina Dolores; Andy Bowen; Ryan Vitali; Tahseen Mozaﬀar; Ranjan Gupta
Orthopaedic Surgery, University of California, Irvine, Irvine, CA

11:07 am – 11:14 am

Scaphoid Malunion: Outcomes of Corrective Osteotomy Compared to Salvage Procedures
Blake Paul Gillette, MD; Sanjeev Kakar, MD, MRCS, MBA; Peter C. Amadio, MD
1Orthopaedic Surgery, Mayo Clinic, Rochester, MN; 2Orthopaedics, Mayo Clinic, Rochester, MN

11:14 am – 11:20 am Discussion

ASPN

11:20 am – 11:27 am

Brief 1 Hour 20Hz Electrical Stimulation (ES) Improves Axon Regeneration After Delayed Nerve Repair in Sprague Dawley Rats
Adil Ladak, MSc, MD; Neil Tyreman, BSc; Valarie Verge, PhD; Tessa Gordon, PhD
1Division of Plastic and Reconstructive Surgery, The Hospital for Sick Children, Toronto, ON, Canada; 2Division of Neuroscience, University of Alberta, Edmonton, Canada; 3CMSNRG and Department of Anatomy and Cell Biology, University of Saskatoon, Saskatoon, Canada

11:27 am – 11:34 am

Hand Outcomes in Operative Management of Complete Obstetrical Brachial Plexus Palsy
Isaac Harvey, FRACS, MBBS, BSc; Emily Ho, MD; Howard Clarke, MD
1Division of Plastic and Reconstructive Surgery, Hospital for Sick Children, Ontario, ON, Canada; 2Division of Plastic and Reconstructive Surgery, Hospital for Sick Children, Toronto, ON, Canada

11:34 am – 11:40 am Discussion

ASRM

11:40 am – 11:47 am

The Profunda Artery Perforator Flap(PAP): A New Flap for Breast Reconstruction
Maria M. LoTempio, MD; Nicholas Haddock, MD; Alireza Sadeghi, MD; Christina Ahn, MD; Robert J. Allen, MD
1Plastic Surgery, Medical University of South Carolina, Charleston, SC; 2NYU, New York, NY; 3LSU, New Orleans, LA; 4Plastic Surgery, Louisiana State University Health Science Center, New Orleans, LA

11:47 am – 11:54 am

Fascicular Turnover Nerve Flaps Versus Free Nerve Grafts: Pilot Study of Comparison and Outcomes in a Rat Model
Adrian Ooi, MBBS; Terence Goh, MD; Chin-Ho Wong, MD; Kok Chai Tan, MD
Plastic, Reconstructive and Aesthetic Surgery, Singapore General Hospital, Singapore, Singapore

11:54 am – 12:00 pm Discussion

12:00 pm

Adjourn

12:00 pm - 5:00 pm

Masters Series in Microsurgery

Chair: Lawrence Gottlieb, MD

“Disasters of the Masters”

By popular request, the Master Series in Microsurgery will once again highlight complications and problems with our “Disasters of the Masters.” An international panel of renown Masters of Microsurgery will show us how they dealt with disasters they inherited, present disasters that they have created, and teach us how to avoid disasters.

12:00 pm – 12:30 pm

Lunch in Meeting Room
Master Series Attendees Only

12:30 pm – 1:00 pm

Welcome Introduction
Lawrence Gottlieb, MD

1:00 pm – 1:30 pm

Breast
David H. Song, MD, MBA, FACS

1:30 pm – 2:00 pm

Upper Extremity
E. Gene Deune, MD

2:00 pm – 2:30 pm

Lower Extremity
Raymond Dunn, MD

“Disasters of the Masters” continues next page
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<th>Time</th>
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<td>2:30 pm – 2:45 pm</td>
<td>Discussion/Questions</td>
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<td>2:45 pm – 3:00 pm</td>
<td>Break</td>
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<tr>
<td>3:00 pm – 3:30 pm</td>
<td>Limb Salvage</td>
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<tr>
<td>Marco Innocenti, MD</td>
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<tr>
<td>3:30 pm – 4:00 pm</td>
<td>Face Reconstruction</td>
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<td>Stefan Hofer, MD</td>
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<td>4:00 pm – 4:30 pm</td>
<td>Face Transplant</td>
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<td>Laurent Lantieri, MD</td>
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<tr>
<td>4:30 pm – 4:45 pm</td>
<td>Discussion/Questions</td>
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<td>4:45 pm – 5:00 pm</td>
<td>Closing Remarks</td>
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<tr>
<td>Lawrence Gottlieb, MD</td>
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**Objectives:** Following this session, the participants will be able to:

1. Evaluate tips, tricks and pearls of microsurgery from the masters.
2. Apply tips, tricks, and pearls of how to get started as an academic reconstructive microsurgeon.
3. Identify tips, tricks and pearls of how to be a successful reconstructive microsurgeon in private practice.
4. Discuss tips, tricks and pearl of tissue engineering and its use in reconstructive microsurgery

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<tr>
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<td>ASRM Young Microsurgeons Group/ New Member Reception <em>(Invitation Only)</em></td>
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<td>6:00 pm - 7:30 pm</td>
<td>ASPN/ASRM Welcome Reception</td>
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**notes:**
# Day-at-a-Glance

## Sunday, January 15, 2012

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<td>7:00am – 8:00am</td>
<td>Breakfast with Exhibitors</td>
<td>Charleston</td>
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<tr>
<td>7:30am – 7:45am</td>
<td>ASRM Presidential/Program Chair Welcome: Keith E. Brandt, MD, David H. Song, MD, MBA, FACS</td>
<td>Summerlin ABEF</td>
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<tr>
<td>7:45am – 8:45am</td>
<td>ASRM Scientific Paper Session</td>
<td>Summerlin ABEF</td>
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<td>9:00am – 10:00am</td>
<td><strong>ASRM Concurrent Break Out Panels</strong></td>
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<td>10:00am – 10:15am</td>
<td>Break with Exhibitors</td>
<td>Charleston</td>
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<tr>
<td>10:15am – 11:15am</td>
<td>ASPN/ASRM Panel: Reconstructive Challenges: Head to Toe</td>
<td>Summerlin ABEF</td>
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<tr>
<td>11:15am – 12:15pm</td>
<td>President’s Invited Lecturer: A Path to Innovation, Susan Mackinnon, MD</td>
<td>Summerlin ABEF</td>
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<tr>
<td>12:15pm – 1:15pm</td>
<td>ASRM Poster &amp; Exhibits Luncheon</td>
<td>Charleston</td>
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<tr>
<td>1:15pm – 2:15pm</td>
<td>ASRM Concurrent Scientific Paper Sessions</td>
<td>Summerlin ABEF</td>
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<td>2:15pm – 4:15pm</td>
<td>ASRT Update</td>
<td>Summerlin CD</td>
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<td>4:30pm – 6:30pm</td>
<td>Best Case/Best Save Programming</td>
<td>Summerlin ABEF</td>
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<tr>
<td>6:30pm</td>
<td>ASRM President’s Reception and Dinner (Invitation Only)</td>
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</table>
8:10 am - 8:14 am  
The Use of SCIP(Superficial Circumflex Iliac Artery Perforator) Flap with Supermicrosurgery in Lower Extremity Reconstruction  
Hyunsuk Suh; Joon Pio Hong  
Institution where the work was prepared: Asan Medical Center, Seoul, South Korea

8:14 am - 8:19 am  
Discussion

8:19 am - 8:23 am  
Free Deep Inferior Epigastric Artery Perforator Flap for Lower Extremity Reconstruction: Indications, Technique and Outcomes  
School of Medicine, Dept. Plastic Surgery, Antalya, Turkey  
O. Koray Coskunfirat, MD; Omer Ozkan; Asim Uslu  
Institution where the work was prepared: Akdeniz University

8:23 am - 8:27 am  
Immunosuppression With A Combination Of Triptolide And A Subtherapeutic Dose Of CsA In Vascularized Skin Allotransplantation: An Experimental Study In Rats  
Jun Yang, MD, PhD  
Institution where the work was prepared: Dept of Plast & Reconst Surg, Shanghai 9th Hosp, Shanghai, China

8:27 am - 8:31 am  
Experience with "Racing Stripe" Fasciocutaneous Free Flaps  
School of Medicine, Dept. Plastic Surgery, Antalya, Turkey  
O. Koray Coskunfirat, MD; Omer Ozkan; Asim Uslu  
Institution where the work was prepared: Akdeniz University

8:31 am - 8:35 am  
Clinical Relevance Of Internal Mammary Lymph Node Sampling During Autologous Breast Reconstruction – A Screening of 519 Consecutive Patients  
Brian T. Andrews, MD, MA; Phillip Richrath; Beatrice IJ Munder, MD; Katrin Seidenstücker; Phillip Behrendt; Stefan Langer; Raymond E. Horch, MD; Volker J. Schmidt, MD; Christoph Andree  
Institution where the work was prepared: Sana Hospital, Dusseldorf, Germany

8:35 am - 8:41 am  
Discussion

9:00 am - 10:00 am  
ASRM Breakout Panels

401 Maximizing Aesthetics in Reconstructive Breast Surgery  
Chair: Steven Kronowitz, MD  
Panelists: Stefan Hofer, MD; Joan E. Lipa, MD;  
How do I get results like the experts? This panel of experts will discuss how they get their results. Tips and tricks to achieving an aesthetic triumph in the reconstructed breast will be discussed.

Objective: Following this session, the participant will be able to:  
Incorporate tips and tricks given to achieve better aesthetic results in breast reconstruction.
402 TUG of War: What Is The Ideal Secondary Choice for Autologous Breast Reconstruction

**Chair:** Julie E. Park, MD  
**Instructors:** Steven Vega, MD; Frank Dellacroce, MD; Thomas Hayakawa, MD

No abdominal tissue for the breast reconstruction? That’s okay, as this panel will discuss the ideal choice for autologous tissue reconstruction of the breast when the abdomen is not an option.

**Objectives:** Following this session, the participant will be able to:
1. Identify the ideal choice for autologous tissue reconstruction of the breast when the abdomen is not an option.
2. Discuss the process for selecting for alternative options for the autologous tissue when the abdomen is not an option.

403 Navigating the DIEP SIEA: How to Choose the Right Perforator System

**Chair:** David H. Song, MD, MBA, FACS  
**Instructors:** Gedge Rosson, MD; Bernard Chang, MD; Michel Saint-Cyr, MD

Ever wonder how one chooses the right perforator system? This panel will reveal insights into how experts choose the correct perforator for their flap. CT angio and cutting edge technology, is it relevant? Or is an algorithmic approach just as good?

**Objectives:** Following this session, the participant will be able to:
1. Describe how to best choose the correct perforator system for each specific flap.
2. Recognize the relevancy of CT angio and cutting edge technology versus the algorithmic approach.

404 Damage Control: Optimizing Function in the Mangled Hand

**Chair:** Michael Neumeister, MD  
**Instructors:** James Higgins, MD; Charles Lee, MD; Milan Stevanovic, MD

This panel will discuss the myriad of ways in which experts gain maximal function after reconstructing the mangled hand. Attendees will gain insight into how best to approach the mangled hand, what flaps work best in which scenario.

405 Truth or Dare: Lower Extremity Reconstruction With and Without Microsurgery

**Chair:** Joon Pio Hong, MD  
**Instructors:** Howard Langstein, MD; Geoff Hallock, MD; Steven Moran, MD

Are free tissue transfers the best way to cover the lower extremity? This panel will debate the best methods for lower extremity coverage after trauma and tumor extirpation.

**Objectives:** Following this session, the participant will be able to:
1. Determine if free tissue transfers are the best way to cover the lower extremity based on unique practice needs after trauma or tumor extirpation.

406 State of the Art Treatment of Lower Extremity Sarcoma

**Chair:** Girard Henry, MD  
**Instructors:** E. Gene Deune, MD; Marco Innocenti, MD

A multidisciplinary approach to extremity sarcoma treatment and reconstruction will be discussed. What are the most favorable flaps for coverage and function? What’s the best timing? How to perform surgery in the setting of adjuvant therapy and maximize results? These questions and more will be addressed in this panel.

**Objectives:** Following this session, the participant will be able to:
1. Utilize the most favored flaps for coverage and function in extremity sarcoma treatment and reconstruction.
2. Determine how to perform surgery in the setting of adjuvant therapy and maximize results.
1:20 pm - 1:25 pm  
**Human Composite Full Face Transplantation – A Case Series**
Tormod Westvik, MD; Bohdan Pomahac, MD; Edward Malin, MD; Julian Pribaz, MD
*Institution where the work was prepared: Brigham & Women's Hospital - Harvard Medical School, Boston, MA, USA*

1:25 pm - 1:30 pm  
**Trachea Allotransplantation and Prefabracisation for Long Trachea Stenosis With Withdrawal of Immunosuppression. Update After 4 Cases**
Jan Jeroen Vranckx, MD, PhD; Katarina Segers, MD; Pierre Delaere, MD, PhD
*Institution where the work was prepared: KUL Leuven University Hospitals, Leuven, Belgium*

1:30 pm - 1:35 pm  
**Discussion**

1:35 pm - 1:40 pm  
**Microsurgical Reconstruction of Composite Scalp and Calvarial Defects in Cancer Patients: A 10-Year Experience**
Albert H. Chao, MD; Peirong Yu, MD; Roman J. Skoracki, MD; Franco DeMonte, MD; Matthew M. Hanasono, MD
*Institution where the work was prepared: University of Texas MD Anderson Cancer Center, Houston, TX, USA*

1:40 pm - 1:45 pm  
**The Second Free Flap versus Locoregional Flap as Salvage Procedure after Failed Free Flap in Head and Neck Reconstruction**
Institution where the work was prepared: Kaohsiung Chang Gung Memorial Hospital, Kaohsiung, Taiwan
Yun-Ta Tsai, MD; Francesco Mattia G. Riva, MD; Yen-Chou Chen, MD; Yur-Ren Kuo, MD, PhD, FACS

1:45 pm - 1:50 pm  
**Is Microsurgical Head and Neck Reconstruction Profitable? Analysis at an Academic Medical Center**
Ahlia Kattan, BA; Arash Momeni, MD; Gordon Kwanlyp Lee, MD
*Institution where the work was prepared: Stanford University School of Medicine, Stanford, CA, USA*

1:50 pm - 1:55 pm  
**Discussion**

1:55 pm - 2:00 pm  
**The Outcomes of Dynamic Procedures for Blink Restoration in Pediatric Facial Palsy**
Julia K. Terzis, MD, PhD; Dimitrios Karypidis
*Institution where the work was prepared: Eastern Virginia Medical School, Norfolk, VA, USA*

2:00 pm - 2:05 pm  
**Anatomical Dissection of the Massteric Nerve for Facial Reanimation**
Terence Goh, MBBS, MRCS, MMed; David Yung; Bien-Keem Tan
*Institution where the work was prepared: Singapore General Hospital, Singapore, Singapore*

2:05 pm - 2:10 pm  
**Total Tongue Reconstruction – the Manta Ray Flap**
Jennifer W. Robinson, MD, FRCS(C); Jesse Selber
*Institution where the work was prepared: University of Texas MD Anderson Cancer Center, Houston, TX, USA*

2:10 pm - 2:15 pm  
**Discussion**

**BASIC TRANSLATIONAL RESEARCH I**

**Moderators:** Geoff Gurtner, MD and Justin Sacks, MD
Throughout this program a series of basic and clinical research papers chosen by the Program Committee will be presented.

**Objective:** The participants will be exposed to ongoing research in the field of reconstructive microsurgery, and other complex reconstructions.

1:15 pm - 1:20 pm  
**Tunneled Superficial Inferior Epigastric Artery (SIEA) Myocutaneous / Vascularized Femur Chimeric Flaps: A Model to Study the Role of Vascularized Bone Marrow in Composite Allografts**
Gerhard Salomo Mundinger, MD; Joseph A. Kelamis; Soon H. Kim; Michael Magarakis; Luke S. Jones; Jinny S. Ha; Eduardo D. Rodriguez
*Institution where the work was prepared: R Adams Cowley Shock Trauma Center/ University of Maryland, Baltimore, MD, USA*

1:20 pm - 1:25 pm  
**Hydrogen Sulfide Mitigates Neutrophil-Mediated Tissue Injury in the Setting of Ischemia-Reperfusion Injury via Downregulation of L-Selectin**
Carissa J. Ball, MS; Alyssa J. Reiffel, MD; Sathvika Chintalapani, MEng; Jason A. Spector, MD, FAC; Michael R. King, PhD
*Institution where the work was prepared: Weill Cornell Medical College, New York, NY, USA*

1:25 pm - 1:30 pm  
**In Vivo Assessment Of A Novel Adipose Derived Hydrogel For Adipose Tissue Engineering**
Shiba Sinha, MBChB, (hons); Christopher Poon, PhD; Keren Abberton, PhD; Wayne Allan J Morrison
*Institution where the work was prepared: O’Brien Institute, Melbourne, Australia*

1:30 pm - 1:35 pm  
**Discussion**

1:35 pm - 1:40 pm  
**Adoptive Transfer of Ex-vivo Donor Alloantigen-stimulated Regulatory T cells Delays Composite Tissue Allotransplantation Rejection**
Sherilyn Keng Lin Tay, MBChB, MRCS; Hui-Yun Cheng, PhD; N. Ghetu, MD, PhD; Chi-H Fan Lin; Ling-Yi Shih; Fu-Chan Wei, MD, FACS
*Institution where the work was prepared: Chang Gung Memorial Hospital, Gueishan Taoyuan, Taiwan*

1:40 pm - 1:45 pm  
**Optimizing Endothelial Cell Adhesion and Invasion in Tissue Engineering with Naturally-Derived, Biodegradable Hybrid Hydrogel Scaffolds**
Alyssa J. Reiffel, MD; Justin L. Perez, BS; Edo Israely, BA; Natalia Jimenez, BS; Nikola Lekic, MS; Jason A. Spector, MD, FACS
*Institution where the work was prepared: Weill Cornell Medical College, New York, NY, USA*

1:45 pm - 1:50 pm  
**Stromal Cells Epineural Conduit (SCEC) in Peripheral Nerve Regeneration: a New Surgical Approach and Alternative to an Autograft Technique**
Maria Madajka; Amanda Mendiola, MD; Maria Siemionow
*Institution where the work was prepared: Cleveland Clinic, Cleveland, OH, USA*

1:50 pm - 1:55 pm  
**Discussion**
1:55 pm - 2:00 pm
T-Regulatory Cells May Mediate Tolerance Towards Both Vascularized and Non-Vascularized Skin Allograft Transplants
Jeff Chang, MS, MD; Billanna Hwang, BS; Tiffany Butts, BS; Scott Graves, PhD; Rainer Storb, MD; David Mathes, MD
Institution where the work was prepared: University of Washington, Seattle, WA, USA

2:00 pm - 2:05 pm
The Vascularized Bone Marrow Component of Composite Tissue Allografts Combined with Costimulatory Blockade Promotes Donor-Derived Hematopoietic Stem Cell Engraftment, Chimerism and Tolerance
Cheng-Hung Lin; Qi Mao; Zuhaib Ibrahim; Wensheng Zhang; Timothy W. Ng; Xin Xiao Zheng; W.P. Andrew Lee; Gerald Brandacher
Institution where the work was prepared: Johns Hopkins University School of Medicine, Baltimore, MD, USA

2:05 pm - 2:10 pm
Vascularized Bone Marrow Allografting and Low-Dose Cyclosporine A Prolonged the Survival of Adipose Tissue Allografting
Hsieh Yu-Hsuan; Ming-Huei Cheng; Wei-Fan Chen; Jung-Ju Huang; Chih-Wei Wu Wu; Holger Engel
Institution where the work was prepared: Yu-Hsuan Hsieh, Taoyuan 333, Taiwan

2:10 pm - 2:15 pm  Discussion

2:15 pm - 4:15 pm  American Society of Reconstructive Transplantation (ASRT) Programming

Welcome
L. Scott Levin, MD, FACS

Funding VCA
Bohdan Pomahac, MD

Tissue Vs. Organ: ASRT Efforts at OPO Regulation
Sue McDiarmid, MD

Moving Towards International Registry and Outcomes Data
Maria Siemionow, MD

Panel: Establishing a VCA Program
Panelists: L. Scott Levin, MD; Linda Cendales, MD; Kodi Azari, MD; W. P. Andrew Lee, MD

Panel: Complications to Date—the Bad and the Ugly
Panelists: Warren Breidenbach, MD; Jaime Shores, MD; Bohdan Pomahac, MD; Laurent Lantieri, MD

4:30 pm - 6:30 pm  ASRM Best Case/Best Save
Submissions of the microsurgical salvage cases performed during the last year will be presented and a panel of experts will critique the submitted cases. Attendees will vote for the Best Microsurgical Save and Best Microsurgical Case of the year. Awards will be presented at the conclusion of the session.

Supported by an educational grant from Synovis, MCA
# American Society for Reconstructive Microsurgery

## DAY-AT-A-GLANCE

### Monday, January 16, 2012

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<td>Speaker Ready Room</td>
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<td>Registration</td>
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<td>7:00am – 9:00am</td>
<td>Breakfast with Exhibitors</td>
<td>Charleston</td>
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<td>7:30am – 8:30am</td>
<td>Past Presidents Breakfast (Invitation Only)</td>
<td>Hills</td>
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<td>7:30am – 8:30am</td>
<td><strong>ASRM Concurrent Break Out Panels</strong></td>
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<td>407 Achieving Efficiency in Vascularized Bone Transfers</td>
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<td>408 Tracheo-Esophageal Reconstruction: A Hard Pill to Swallow</td>
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<td>409 Back to the Future: Tried and True Techniques in Facial Reconstruction</td>
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<td>410 Complex Abdominal Reconstruction: Whose Role is it?</td>
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<td>412 Management of Complex Chest Wall Defect</td>
<td>Veranda B</td>
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<td>8:45am – 9:45am</td>
<td>PANEL: Young Microsurgeon's Group (YMG) Panel</td>
<td>Summerlin ABEF</td>
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<td>9:45am – 10:00am</td>
<td>Break with Exhibitors</td>
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<td>10:00am – 11:15am</td>
<td>ASRM Concurrent Scientific Paper Sessions</td>
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<td>Breast I</td>
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<td>Head &amp; Neck II</td>
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<td>11:15am – 11:45am</td>
<td>Presidential Lecture:</td>
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<td>Keith E. Brandt, MD</td>
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<td>11:45am – 12:30pm</td>
<td>Lunch with Exhibitors</td>
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<td>12:30pm – 1:30pm</td>
<td>ASRM Panel: If I Knew Then What I Know Now:</td>
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<td>Tips and Tricks Learned the Hard Way Over a Long And Distinguished Career</td>
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<td>1:45pm – 2:45pm</td>
<td>Concurrent Scientific Paper Sessions</td>
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<td>Torso &amp; Complex Non-Micro Reconstruction</td>
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<td>Extremities I</td>
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<td>2:45pm – 3:45pm</td>
<td>ASRM Godina Lecture:</td>
<td>Summerlin ABEF</td>
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<td>Samir Mardini, MD</td>
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<td>3:45pm – 4:45pm</td>
<td>ASRM Business Meeting (Members Only)</td>
<td>Summerlin ABEF</td>
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<td>6:00pm – 7:00pm</td>
<td>Godina Alumni Reunion (Invitation Only)</td>
<td>Lobby Lounge</td>
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<tr>
<td>7:00pm – 10:00pm</td>
<td>ASRM Vegas-Style Evening Event</td>
<td>Charleston</td>
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**407 Achieving Efficiency in Vascularized Bone Transfers**

**Chair:** Babak Mehrara, MD  
**Panelists:** Giorgio DeSantis, MD  

Experts will discuss their method of transferring vascularized bone and composite bone flaps for various scenarios. Tips and pearls on dissection and insetting will be discussed by experts in the field.  
**Objectives:** Following this session, the participant will be able to:  
1. Demonstrate various methods of transferring vascularized bone and composite bone flaps for various circumstances.  
2. Determine how to perform surgery in the setting of adjuvant therapy and maximize results.

**408 Tracheo-Esophageal Reconstruction: A Hard Pill to Swallow**

**Chair:** Peirong Yu, MD  
**Instructors:** Samir Mardini, MD; Jan Vranckx, MD  

The latest advances in trachea-esophageal reconstruction will be discussed. The right flap for the right occasion and learn from experts as to what these are.  
**Objectives:** Following this session, the participant will be able to:  
1. Discuss the latest advances in trachea-esophageal reconstruction.  
2. Determine the right flap for various occasions.

**409 Back to the Future: Tried and True Techniques in Facial Reconstruction**

**Chair:** Hung-Chi Chen, MD  
**Instructors:** Yur Ren Kuo, MD  

In this era of CTA for the face, what about the tried and true techniques that have been utilized for decades? Experts will discuss what these techniques are and how to perform them.  
**Objectives:** Following this session, the participant will be able to:  
1. Demonstrate various methods of transferring vascularized bone and composite bone flaps for various circumstances.  
2. Determine how to perform surgery in the setting of adjuvant therapy and maximize results.

**410 Complex Abdominal Reconstruction: Whose Role is it?**

**Chair:** Charles Butler, MD  
**Instructors:** Maurice Nahabedian, MD; Michael Rosen, MD; Michael Franz, MD  

With the advent of sub-atmospheric pressure therapy, biologic mesh and component separation, whose role is it to reconstruct the difficult ventral hernia? What's the best method? Learn from experts in different fields as they discuss their approaches to this challenging problem.  
**Objectives:** Following this session, the participant will be able to:  
1. Determine whose role it is to reconstruct the difficult ventral hernia with the strongest method possible.

**411 Genitourinary Reconstruction**

**Chair:** Lawrence Gottlieb, MD  
**Instructors:** Lawrence Cole, MD; Sinikka Suominen, MD  

Experts will share their knowledge in this challenging field. Genitourinary reconstruction in the setting of trauma, tumor extirpation and gender re-assignment will be addressed.  
**Objective:** Following this session, the participant will be able to:  
1. Demonstrate proficiency in genitourinary reconstruction in the setting of trauma, tumor extirpation and gender re-assignment.

**412 Management of Complex Chest Wall Defect**

**Chair:** Michael Sauerbier, MD  
**Instructors:** Michael Wong, MD; Scott Oates, MD; Daniel Pyo, MD  

What’s new in complex chest wall reconstruction? Experts will share their experience with flaps, biologic mesh and rigid fixation for these complex problems.  
**Objective:** Following this session, the participant will be able to:  
1. Indentify new techniques in complex chest wall reconstruction.  
2. Discuss the usage of flaps, biologic mesh and rigid fixation for these complex problems.
HEART & NECK II

Moderators: Peter Cordiero, MD and Mark Sisco, MD

Objective: The participants will be exposed to ongoing research in the field of reconstructive microsurgery and other complex reconstructions.

10:05 am - 10:10 am
Transaxillary-Subclavian Transfer of Pedicled Latisissimus Dorsi Musculocutaneous Flap to Head and Neck Region
Yener Demirtas; Caglayan Yagmur; Osman Kelahmetoglu; Ahmet Demir; Ethem Guneren
Institution where the work was prepared: Ondokuz Mayis University, Samsun, Turkey

10:10 am - 10:15 am
Advanced Cranial Reconstructions in the Wounded: Indications and Applications for an Intracranial Free Flap
Ian L. Valero, MD, MS, MBA; Patrick L. Basile, MD; Robert T. Howard, MD; Kelly Latham, MD; Rocco Armonda, MD; Meryl Severson, MD; Anand Kumar, MD
Institution where the work was prepared: National Naval Medical Center, Bethesda, MD, USA

10:15 am - 10:20 am
The Utility of the Multi-Island Vertical Rectus Abdominis Myocutaneous (VRAM) Flap in Head and Neck Reconstruction
Evan Matros; Nima P. Patel, MD; Peter G. Cordeiro
Institution where the work was prepared: Memorial Sloan Kettering Cancer Center, New York, NY, USA

10:20 am - 10:25 am
Design of Reliable Skin Paddle for Fibula Osteocutaneous Flap: Perforator Anatomy Revisited
Peirong Yu; Edward I. Chang; Matthew M. Hanasono
Institution where the work was prepared: MD Anderson Cancer Center, Houston, TX, USA

10:25 am - 10:30 am
Perforator Patterns of the Ulnar Artery Perforator Flap
Peirong Yu; Edward I. Chang; Matthew M. Hanasono
Institution where the work was prepared: MD Anderson Cancer Center, Houston, TX, USA

10:30 am - 10:35 am
CTA of the LCFA Facilitates Harvesting Double Island ALT and ALT/AMT Flaps for Head and Neck Reconstruction
Jennifer W. Robinson, MD; Peirong Yu; Matthew M. Hanasono
Institution where the work was prepared: MD Anderson Cancer Center, Houston, TX, USA
Throughout this program a series of basic and clinical research papers chosen by the Program Committee will be presented.

**Objective:** The participants will be exposed to ongoing research in the field of reconstructive microsurgery, and other complex reconstructions.

**Moderators:** Rob Whitfield, MD and Michael Howard, MD

**1:45 pm - 1:50 pm**

**Sartorius Muscle and Myocutaneous Flap: Redefining the Vascular Anatomy Using 3D CT Angiography and Clinical Applications**

Corrine Wong, MRCS; Jordan Farkas, MD; Ali Mojallal, MD, PhD; and M Saint-Cyr, 1

Dept of Plastic Surgery, UT Southwestern Medical Center, Dallas, TX; Dept of Plastic Surgery, UT Southwestern Medical Center, Dallas; Hospices Civils de Lyon, University of Lyon, France, Lyon, France

**1:50 pm - 1:55 pm**

**Prophylactic Muscle Flaps in Vascular Surgery: A Novel Scoring System to Optimize Outcomes**

John P. Fischer; Jonas Nelson, MD; Mirzabeigi Michael, BS; Joseph Serletti, MD; Kanchwala Suhail, MD

Institution where the work was prepared: University of Pennsylvania, Philadelphia, PA, USA

**1:55 pm - 2:00 pm**

**Lymphatic Microsurgery Today: Techniques and Long-Term Clinical Outcome for an Effective Treatment of Lymphatic Disorders**

Corrado Cesare Campisi, MD; Pierluigi Santi, MD; Francesco Boccardo, MD, PhD; Rosalba Lavagno, MD; Corrado Campisi, MD, PhD

Institution where the work was prepared: National Institute for Cancer Research (IST), Genoa, Italy

**2:00 pm - 2:05 pm**

**Discussion**

**2:05 pm - 2:10 pm**

**Vascularized Groin Lymph Node Transfer Using Wrist or Elbow As A Recipient Site for Postmastectomy Lymphedema**

Ming-Huei Cheng, MD; Steven Henry, MD; Jung-Ju Huang, MD; Jerry Chih-Wei Wu, MD; Dung H. Nguyen, MD

Institution where the work was prepared: Chang Gung Memorial Hospital, Taipei, Taiwan

**2:10 pm - 2:15 pm**

**Vascularized Submental Lymph Node Flap Transfer for the Treatment of Lower Extremity Lymphedema**

Ming-Huei Cheng, MD; Dung H. Nguyen; Michel Saint-Cyr; Jung-Ju Huang; Jerry Chih-Wei Wu

Institution where the work was prepared: Chang Gung Memorial Hospital, Taipei, Taiwan

**2:15 pm - 2:20 pm**

**Quantitative Fluorescence in 4305 Readings: Predictive, Sensitive and Specific for Vascular Compromise in Microsurgery: A Negative Test Means You Can Sleep Soundly**

Bauback Safa, MD, MBA, FACS; Brian Parrett, MD; Gregory Buncke, MD, FACS; Darrell Brooks, MD; Rudy Buntic, MD, FACS

Institution where the work was prepared: The Buncke Clinic, San Francisco, CA, USA

**2:20 pm - 2:25 pm**

**Discussion**

**2:25 pm - 2:30 pm**

**Free Vascularized Cartilage Transfer From the Medial Trochlea of the Femur: A New Procedure For Wrist Reconstruction**

Heinz Burger, MD; James P. Higgins

Institution where the work was prepared: Curtis National Hand Center, Baltimore, MD, USA

**2:30 pm - 2:35 pm**

**Reconstructing Large Bony Defects of the Femur - What Have We Learned in 11 years?**

Ravit Yanko-Arzi, MD; Yehuda Kollender, MD; Jacob Bickels, MD; Shlomo Dadia, MD; Itai Gueta, MD; Yoav Barnea, MD; Eyal Gur, MD; Isaac Meller, MD; Ari Zaretsky, MD

Institution where the work was prepared: Tel Aviv Sourasky Medical Center, Tel Aviv, Israel
Return to Ambulation Following Microsurgical Lower Extremity Reconstruction Versus Below-Knee Amputation for Non-traumatic Wounds in High-Risk Patients
Ketan M. Patel, MD; Mitchell Seruya: Brenton Franklin; Benjamin Brown; Ivica Ducic, MD, PhD; Christopher Attinger
Institution where the work was prepared: Georgetown University Hospital; Dept. of Plastic Surgery, Washington, DC, USA

Discussion
### American Society for Reconstructive Microsurgery

#### DAY-AT-A-GLANCE

**Tuesday, January 17, 2012**

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<td><strong>ASRM Concurrent Break Out Panels</strong></td>
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<td>413 CPT Coding Workshop</td>
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<td>414 The Business of Reconstructive Surgery:</td>
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<td>Maximizing Economic Value</td>
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<td>415 Marketing your Reconstructive Practice:</td>
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<td>Pearls And Pitfalls</td>
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<td>416 Super Microsurgery</td>
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<td>418 Targeted Muscle Reinnervation</td>
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<td>9:00am – 10:00am</td>
<td>Panel: Complex Reconstruction-How to Be Mission</td>
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<td>Critical to your Institution</td>
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<td>10:00am – 11:00am</td>
<td>Buncke Lecturer: Prof. Wayne Morrison, MD</td>
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<td>11:00am – 11:15am</td>
<td>Coffee Break</td>
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<td>Breast II/Basic Translational Research</td>
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<td>Extremities II/ Outcome Studies</td>
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<td>12:45pm – 1:45pm</td>
<td>Panel: Innovative Surgery vs. Experimentation: Where is the Line?</td>
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<td>1:45pm</td>
<td>Closing Remarks</td>
<td>Summerlin ABEF</td>
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Tuesday January 17, 2012

7:00 am - 9:00 am  Breakfast
7:30 am - 8:30 am  ASRM Council Meeting
7:30 am - 8:45 am  ASRM Breakout Panels

413 CPT Coding Workshop
Chair: Thomas Tung, MD
Panelists: Melissa Crosby, MD; Scott Oates, MD
Learn to code appropriately and accurately to maximize value and minimize hassles. Experts will share “do’s” and “don’ts” of CPT coding.
Objective: Following this session, the participant will be able to: Implement correct coding practices appropriately and accurately to maximize value and minimize hassles.

414 The Business of Reconstructive Surgery: Maximizing Economic Value
Chair: Loren Schechter, MD
Panelists: Scott Hultman, MD; Kayvan Khiabani, MD
How do they remain profitable in this era by performing reconstructive surgery? Experts will share their knowledge and the ways in which they gained efficiency, maximize return and minimize costs.
Objective: Following this session, the participant will be able to: 1. Manage profit gains in today’s reconstructive practice.

415 Marketing your Reconstructive Practice: Pearls and Pitfalls
Moderator: Tom Davenport, MD
Panelists: Karen M. Horton, MD; Jamie Levine, MD; Wes Schooler, MD
Can you market reconstructive surgery successfully and ethically? Experts will share their experience with marketing their practices and share tips and pearls on effective marketing. From earned and paid media to social media, experts will share their experiences as to what works and what doesn’t.
Objectives: Following this session, the participant will be able to: 1. Market reconstructive surgery successful and ethically. 2. Discuss difference in experiences for market outlets, from paid to social media.

416 Super Microsurgery
Chair: David Chang, MD
Instructors: Isao Koshima, MD; Jaume Masia, MD
Where are we today with supermicrosurgery? What tools are needed? What settings best utilize supermicrosurgery. Experts will share their experience on this topic.
Objectives: Following this session, the participant will be able to: 1. Identify current status of supermicrosurgery. 2. Determine what settings best utilize supermicrosurgery.

417 Facial Reanimation
Chair: Ronald Zuker, MD
Instructors: Michael Klebuc, MD; Travis Tollefson, MD; Masakazu Kurita, MD, PhD; Fausto Viterbo, MD
What’s new and improved in facial animation surgery? Experts will discuss tried and true principles and new techniques on how to reanimate the face.
Objectives: Following this session, the participant will be able to: Implement new and sustainable techniques for facial animation surgery.

418 Targeted Muscle Reinnervation
Chair: Oskar Aszmann, MD
Instructors: Paul Cederna, MD; Susan Mackinnon, MD
What muscles benefit for target reinnervation to maximize function and to prepare for prosthetics. Experts will share their tips and tricks to maximize functional results.
Objectives: Following this session, the participant will be able to: Be able to identify what muscles benefit for target reinnervation to maximize function and prepare for prosthetics.

9:00 am - 10:00 am Panel: Complex Reconstruction – How To Be Mission Critical To Your Institution
Moderator: L. Scott Levin, MD, FACS
Invited Panelists: Gregory Evans, MD, FACS; Geoff Robb, MD
Following this session, the participants will be able to: 1. Discuss and engage in conversations about the most effective ways to be mission critical to your institution.

10:00 am - 11:00 am Buncke Lecture
Prof. Wayne Morrison, MD (NOT FOR CREDIT)
The Harry Buncke Lectureship has been created with the support of the California Pacific Medical Center to honor Dr. Buncke’s remarkable contributions to the field of microsurgery. Dr. Harry Buncke has played a major role in the development of our specialty and has helped develop several microsurgical laboratories across the globe. He has influenced countless residents and fellows as well as numerous department chairs throughout the world. It is with great appreciation that we are able to honor Dr. Harry Buncke with his lectureship due funding provided by the California Pacific Medical Center. It is our pleasure to introduce Professor Wayne Morrison, MD as the 2012 Buncke Lecturer.
Supported by an educational grant from California Pacific Medical Center

11:00 am - 11:15 am Coffee Break
11:15 am - 12:45 pm ASRM Concurrent Paper Sessions

BREAST II/BASIC TRANSLATIONAL RESEARCH
Throughout this program a series of basic and clinical research papers chosen by the Program Committee will be presented.
Objective: The participants will be exposed to ongoing research in the field of reconstructive microsurgery and other complex reconstructions.
Moderators: Joyce Aycock, MD and John Hijawi, MD
11:15 am - 11:20 am
Investigation of the Engraftment Of Donor Adipose-Derived Stem Cells Modulated The Composite Tissue Allotransplantation Survival in a Rodent Model
Yur-Ren Kuo, MD, PhD, FACS; Chien-Chang Chen; Shigeru Goto
Institution where the work was prepared: Kaohsiung Chang Gung Memorial Hospital, Kaohsiung, Taiwan

11:20 am - 11:25 am
Serum Proteomic Analysis of Adipose-derived Stem Cells Induced Immune Tolerance of Composite Tissue Allotransplant in a Rodent Hind-limb Model
Yur-Ren Kuo, MD, PhD, FACS; Yu-Ting Huang; Chien-Chang Chen; Shigeru Goto; Feng-Sheng Wang
Institution where the work was prepared: Kaohsiung Chang Gung Memorial Hospital, Kaohsiung, Taiwan

11:25 am - 11:30 am
Nitrite Attenuates I/R-induced Microcirculatory Alterations and Mitochondrial Dysfunction in the Microvasculature of Skeletal Muscle
Wei Z. Wang, MD; Xin-Hua Fang; Linda L. Stephenson; Xinlan Zhang; Shelley J. Williams; Richard C. Baynosa; Kayvan T. Khiahani; William A. Zamboni
Institution where the work was prepared: University of Nevada School of Medicine, Las Vegas, NV, USA

11:30 am - 11:35 am
Fabrication of Biocompatible Biodegradable Artificial Tissue Constructs via Sacrificial Poloxamer Networks
Nikola Lekic, MS; Alyssa J. Reiffel, MD; Justin L. Perez, BS; Jason A. Spector, MD, FACS
Institution where the work was prepared: Weill Cornell Medical College, New York, NY, USA

11:35 am - 11:41 am Discussion

11:41 am - 11:46 am
Modifications to Extend the Transverse Musculocutaneous Gracilis Flap in Breast Reconstruction: Clinical Series and Results
Corrine Wong, MRCS; Georges Tabbal; Georgette Oni; Andrew Trussler; Michel Saint-Cyr
Institution where the work was prepared: Corrine Wong, Dallas, TX, USA

11:46 am - 11:51 am
Vascular Variations of the TUG Flap in Consideration for Breast Reconstruction
Noel Blythe Natoli, MD; Liza C. Wu
Institution where the work was prepared: University of Pennsylvania, Philadelphia, PA, USA

11:51 am - 11:56 am
Using Angiosome-Based Flap Design to Extend the Utility of the Abdominal Donor Site in the Obese Patient
Brad Michael Gandolfi, MD; William Samson; Joseph H. Dayan; Erez Dayan; Arif Chaudhry; Mark L. Smith
Institution where the work was prepared: Beth Israel Medical Center, New York, NY, USA

11:56 am - 12:01 pm
Objective Evaluation of Skill Acquisition in Novice Microsurgeons
John P. Brosious, MD; Shawn T. Tsuda, MD; John M. Menezes, MD; Linda L. Stephenson, BS, MT(ASCP); Richard C. Baynosa, MD; William A. Zamboni, MD, FACS
Institution where the work was prepared: University of Nevada School of Medicine-Las Vegas Hospitals, Las Vegas, NV, USA

12:01 pm - 12:07 pm Discussion

12:07 pm - 12:12 pm
The Effect of Prior Abdominal Surgery on Abdominal Based Free Flaps in Breast Reconstruction
Jason Roostaeian; Paymon Rahgozar; Ivan Sanchez; Salazar Jones; Matthew Tampelen; Andrew Da Lio; Jacob Festekjian; Christopher Crisera
Institution where the work was prepared: UCLA Plastic Surgery at the David Geffen School of Medicine, Los Angeles, CA, USA

12:12 pm - 12:17 pm
A Systematic Review of Antibiotic Use and Infection in Breast Reconstruction: What is the Evidence?
Brett T. Phillips, MD; Muath Bishawi; Alexandra Rodman; Kristen Aliano; Alexander B. Dagum; Sami U. Khan; Duc T. Bui
Institution where the work was prepared: Stony Brook University Medical Center, Stony Brook, NY, USA

12:17 pm - 12:22 pm
Acellular Dermal Matrix in Post-Mastectomy Breast Reconstruction: A Systematic Review and Metaanalysis
Rika Okhuma; Raghunandan Venkat; Helen G Hui-Chou; Michele A Manahan; Michael Magarakis; Gedge D. Rosson
Institution where the work was prepared: Johns Hopkins Medical Institution, Baltimore, MD, USA

12:22 pm - 12:27 pm Discussion

12:27 pm - 12:33 pm
Patient Reported Assessment of Functional Gait Outcomes Following Superior Gluteal Artery Perforator (SGAP) Reconstruction
Kevin Hur; Rika Okhuma; Michele A Manahan; Ariel N Rad; Gedge D Rosson
Institution where the work was prepared: Johns Hopkins Medical Institution, Baltimore, MD, USA

EXTREMITIES II/OUTCOME STUDIES
Throughout this program a series of basic and clinical research papers chosen by the Program Committee will be presented.

Objective: The participants will be exposed to ongoing research in the field of reconstructive microsurgery, and other complex reconstructions.

Moderators: Charles Tseng, MD and Lucio Pavone, MD

11:15 am- 11:20 am
The Effect of Neoadjuvant versus Adjuvant Radiation on Microvascular Free Flap Reconstruction in Sarcoma Patients
Albert H. Chao, MD; David W. Chang; Matthew M. Hanasono
Institution where the work was prepared: University of Texas MD Anderson Cancer Center, Houston, TX, USA

11:20 am - 11:25 am
The Anatomical Basis of the Profunda Artery Perforator (PAP) Flap – A Cadaver and Computer Tomography Angiogram Study
Adam Saad, MD; Ali Sadeghi; Robert J. Allen, MD
Institution where the work was prepared: University of Pennsylvania Health Sciences Center, New Orleans, LA, USA

11:25 am - 11:30 am
The Limited Utility and High Cost of Implantable Dopplers for Free Flap Monitoring
Eric G. Halvorson, MD
Institution where the work was prepared: University of North Carolina, Chapel Hill, NC, USA

11:30 am - 11:35 am Discussion

Tuesday, January 17th
11:35 am - 11:40 am
Evaluating Nerve Repair Outcomes in Complex Soft Tissue Reconstructions, a Multicenter Study Approach
Darrell Brooks, MD; Bauback Safa, MD; Renata V. Weber; Mickey Cho, MD; Christopher Wilson, MD; Michael Robichaux, MD; Jozef Zoldos, MD
Institution where the work was prepared: Buncke Clinic, San Francisco, CA, USA

11:40 am - 11:45 am
Supermicrosurgical Lymphaticovenular Anastomosis for Treatment of Lymphedema
Yener Demirtas; Murat Topalan
Institution where the work was prepared: Ondokuz Mayis University, Samsun, Turkey

11:45 am - 11:50 am
The Use of Magnetic Resonance Angiography for Vascularized Groin Lymph Node Transfer: An Anatomic Study
Erez Dayan, MD; Joseph H. Dayan, MD; Alexander Kagen, MD; Mark L. Smith, MD
Institution where the work was prepared: Beth Israel Medical Center, New York, NY, USA

11:50 am - 11:55 am
Discussion

11:55 am - 12:00 pm
Building a Successful High-Volume FreeFlap Center: The Penn Experience
Theresa Y. Wang, MD; Richard Agag; Jennifer McGrath; Liza C. Wu; David W Low; Stephen J Kovach; Joseph M. Serletti
Institution where the work was prepared: University of Pennsylvania, Philadelphia, PA, USA

12:00 pm - 12:05 pm
Using a Web-Based Microsurgical Curriculum to Enhance Microsurgical Skills in Plastic Surgery Residency Training
Thomas Satterwhite, MD; Ji Son; Joseph Carey; Kamakshi Zeidler; Sina Bari; Geoffrey Gurtner; James Chang; Gordon Lee
Institution where the work was prepared: Stanford University Medical Center, Stanford, CA, USA

12:05 pm - 12:10 pm
The Impact of Residency and Fellowship Training on the Practice of Microsurgery by Members of the American Society for Surgery of the Hand
River M. Elliott, MD; Abtin Foroohar, MD; Keith D. Baldwin, MD, MPH, MSPT; L. Scott Levin, MD, FACS
Institution where the work was prepared: University of Pennsylvania Health System, Philadelphia, PA, USA

12:10 pm - 12:15 pm
Discussion

12:15 pm - 12:20 pm
The Unfavorable Results of Toe Transfers – Risk Factors for Reopen and Failure
Shiuan-Tzuen Su; Ching-Isuan Hu, Medical, doctor; Yu-Te Lin; Chih-Hung Lin; Fu-Chan Wei
Institution where the work was prepared: Department of Plastic and Reconstructive Surgery, Chang Gung Mem, Taoyuan, Taiwan

12:20 pm - 12:25 pm
Staged Resection and Reconstruction of Soft Tissue Sarcoma – The Ohio State University Experience
Jonathan Yang, MD; James Herbert Boehmle; MD, Pankaj Tiwari; Michael J. Miller, MD; Daniel Donato; Thomas Scharchsmit, MD; Joel Mayerson
Institution where the work was prepared: The Ohio State University Medical Center, Columbus, OH, USA

12:25 pm - 12:30 pm
The Effect of Systemic Injury Score on the Decision Making of Mangled Lower Extremities
Hsuan-Keng Yeh, MD; Yu-Te Lin, MD; Hung-Chang Chen; Cheng-Hung Lin; Chih-Hung Lin; Chung-Chen Hsu
Institution where the work was prepared: Chang Gung Memorial Hospital, Taoyuan, Taiwan

12:30 pm - 12:35 pm
Pathogens Associated with Failed Limb Salvage Following Microsurgical Lower Extremity Reconstruction
Mitchel Seruya, MD; Ketan M. Patel, MD; B Franklin; M Gatti; I Ducic
Institution where the work was prepared: Georgetown University Hospital, Washington, DC, USA

12:35 pm - 12:41 pm
Discussion

12:45 pm - 1:45 pm
Panel: Innovative Surgery vs. Experimentation: Where Is The Line?
Moderator: Lawrence Gottlieb, MD
Invited Panelists: Roger Khouri, MD; Geoff Gurtner, MD
As reconstructive microsurgeons, innovation is a part of our daily lives, but where is the line between innovation and experimentation? This panel will be lead by one of our country’s leading surgical ethicist. Attendees will gain insight as to the criteria of what is ethically innovative surgery and what may border on experimentation.
Objective: Following this session, the participants will be able to: Discuss new insights as to the criteria of what is ethically innovative surgery and what may border on experimentation.

1:45 pm
Closing Remarks