

Scoliosis Research Society presents

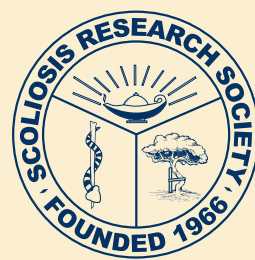
IMAST 2018

25th International Meeting
on Advanced Spine Techniques

July 11–14, 2018
LOS ANGELES
CALIFORNIA, USA

JW Marriott Los Angeles
at L.A. LIVE

PRELIMINARY PROGRAM



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*Sponsored by the Scoliosis
Research Society (SRS)*



25th IMAST
July 11-14, 2018
LOS ANGELES, CA, USA

www.srs.org/imast2018

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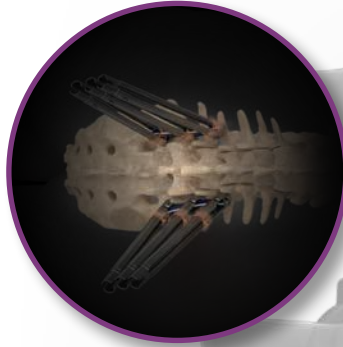
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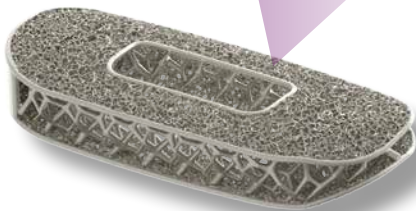
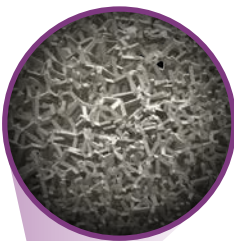


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¹Preclinical data on file; data may not be representative of clinical results.

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DATES TO REMEMBER

Abstract Submission Deadline	February 1, 2018
Registration Open	February 15, 2018
Housing Open	February 15, 2018
Abstract Notification	April 1, 2018 (<i>Annual Meeting – April 15, 2018</i>)
Advance Group Registration Deadline	June 1, 2018
Advance Registration Deadline	June 15, 2018
Housing Deadline	June 18, 2018

WORLDWIDE COURSES

Singapore

SRS pre-course in conjunction with the Global Spine Congress
May 2, 2018

St. Petersburg, Russia

In conjunction with the Russian Association of Spinal Surgeons
May 10-11, 2018

Beijing, People’s Republic of China

In conjunction with the Chinese Spine and Spinal Cord Association,
Spine Deformity Society
June 1-2, 2018

25TH IMAST VENUE

JW Marriott Los Angeles at L.A. LIVE
900 W Olympic Blvd
Los Angeles, CA 90015 USA

FUTURE EDUCATIONAL EVENTS

10th Spine Deformity Solutions: A Hands-On Course
February 15-17, 2018 – Houston, TX, USA

Current Concepts in Spine Deformity Course
April 12-14, 2018 – Bordeaux, France

Current Concepts in Spine Deformity Course
August 30-31, 2018 – Buenos Aires, Argentina

11th Spine Deformity Solutions: A Hands-On Course
September 7-9, 2018 – Hong Kong, China

53rd Annual Meeting & Course
October 10-13, 2018 – Bologna, Italy

CHAIR'S MESSAGE

Dear Participant,

We would like to personally invite you to Los Angeles, California, USA for what promises to be an inspiring academic meeting. As a Society we continue to make incredible strides in the field of spinal deformities, and are excited to showcase these advancements at the landmark 25th IMAST with our colleagues from around the world.

To continue providing a world-class meeting with the best educational value, we have streamlined the program, utilizing last year's popular program design of abstracts in the morning followed by didactic faculty driven sessions in the afternoon. For the first time we will have sessions where the audience will be included in the case discussions during the Instructional Course Lectures (ICLs). This year we will also incorporate additional opportunities for audience interaction within the sessions and introduce a pilot-program of having a dedicated "e-moderator" in certain sessions that will be taking questions submitted electronically by the audience via their mobile devices.

This year's Special Symposium session on Wednesday, July 12 from 14:00-15:45, is a two-part session, focusing on "Building Efficiencies and Minimizing Redundancies" and kicking off the 25th Anniversary celebration of IMAST with "25 Years of IMAST from Those Who Built It." After the symposium we encourage delegates to take part in the Hands-On Workshops which will be followed by the Welcome Reception in the exhibit hall. Be sure to plan to stay through Saturday, as we have a new general session on trauma as well as a Lunch with Experts closing session, which are sure to be very stimulating.

The program will also include the popular complication and debates series, instructional course lectures (ICLs), and roundtable case discussions; all led by an international and multidisciplinary faculty. We encourage all delegates to come and experience the interactive and innovative program we have planned.

We are both honored to serve as your IMAST Chair and Co-Chair again this year. We want to thank those whose leadership and diligent efforts have created such a successful meeting, including Todd J. Albert, MD; Peter O. Newton, MD; Paul D. Sponseller, MD, MBA; Kenneth MC Cheung, MD; and the IMAST Committee.

With warmest personal regards,



A handwritten signature in cursive that reads "Ronald A. Lehman, Jr., MD".

Ronald A. Lehman, Jr., MD
IMAST Committee Chair



A handwritten signature in cursive that reads "Henry F. Halm, MD".

Henry F. Halm, MD
IMAST Committee Co-Chair

GENERAL MEETING INFORMATION

MEETING DESCRIPTION

IMAST gathers leading spine surgeons, innovative researchers, and the most advanced spine technologies for all areas of spine (cervical, thoracic and lumbar), most spinal conditions (degenerative, trauma, deformity and tumor), and a variety of treatment techniques. The IMAST program will include didactic presentations, panel discussions, and papers on current research, roundtable case discussions, debates, complication series and instructional course lectures, all led by an international and multidisciplinary faculty. IMAST is sponsored by the Scoliosis Research Society (SRS).

LEARNING OBJECTIVES

Upon completion of IMAST, participants should be able to:

- Assess recent advances in surgical techniques for the treatment of spinal disorders, compare them with traditional and regional treatments and determine if and/or when to use them for optimal patient care.
- Analyze indications and potential complications for various procedures and approaches related to spinal surgery and apply that analysis to treatment decisions.
- Evaluate and apply principles of minimally invasive surgery (MIS) in the treatment of degenerative and deformed spines.
- Determine how to diagnose, treat and manage patients with cervical degenerative conditions, spinal cord injuries and cervical deformity.
- Identify how attention to safety issues facilitates risk-stratification.

TARGET AUDIENCE

Spine surgeons (orthopaedic and neurological surgeons), researchers, residents, fellows, nurses, nurse practitioners, physician assistants, engineers and company personnel.

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 sponsorship of the Scoliosis Research Society (SRS). SRS is accredited by the ACCME to provide continuing medical education for physicians.

CREDIT DESIGNATION

The Scoliosis Research Society (SRS) designates this live activity for a maximum of 16 *AMA PRA Category 1 Credit(s)*[™]. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

DISCLOSURE OF CONFLICT OF INTEREST

It is the policy of SRS to ensure balance, independence, objectivity and scientific rigor in all of their educational activities. In accordance with this policy, SRS identifies conflicts of interest with instructors, content managers and other individuals who are in a position to control the content of an activity. Conflicts are resolved by SRS to ensure that all scientific research referred to, reported, or used in a Continuing Medical Education (CME) activity conforms to the generally accepted standards of experimental design, data collection and analysis.

FDA STATEMENT (UNITED STATES)

Some drugs and medical devices demonstrated during this course have limited FDA labeling and marketing clearance. It is the responsibility of the physician to be aware of drug or device FDA labeling and marketing status.

INSURANCE/LIABILITIES AND DISCLAIMER

SRS will not be held liable for personal injuries or for loss or damage to property incurred by participants or guests at IMAST including those participating in tours and social events. Participants and guests are encouraged to take out insurance to cover loss incurred in the event of cancellation, medical expenses or damage to or loss of personal effects when traveling outside of their own countries. SRS cannot be held liable for any hindrance or disruption of IMAST proceedings arising from natural, political, social or economic events or other unforeseen incidents beyond its control. Registration of a participant or guest implies acceptance of this condition. The materials presented at this Continuing Medical Education (CME) activity are made available for educational purposes only. The material is not intended to represent the only, nor necessarily best, methods or procedures appropriate for the medical situations discussed, but rather is intended to present an approach, view, statement or opinion of the faculty that may be helpful to others who face similar situations. SRS disclaims any and all liability for injury or other damages resulting to any individual attending a scientific meeting and for all claims that may arise out of the use of techniques demonstrated therein by such individuals, whether these claims shall be asserted by a physician or any other person.

LANGUAGE

Presentations and course materials will be provided in English.

NO SMOKING POLICY

Smoking is not permitted during any IMAST activity or event.

ATTIRE

Business casual (polo or dress shirts, sport coats) are appropriate for IMAST sessions.

LOCATION INFORMATION

ABOUT LOS ANGELES, CALIFORNIA

Los Angeles is undoubtedly the entertainment capital of the world and with many neighborhoods and attractions to explore, beautiful beaches and year-round warm weather, there are endless possibilities when it comes to entertainment options in L.A. With the IMAST headquarters hotel and meeting venue located in Downtown L.A., it is truly in the heart of the city. Downtown L.A. is home to world-class museums, concert halls, theatres and critically acclaimed restaurants. With rapidly expanding public transit options, thriving nightlife and art scene and countless new shops and boutiques, Downtown is a perfect place to start your exploration of this vibrant and diverse city.

LOS ANGELES INTERNATIONAL AIRPORT (LAX)

LAX is located just over 15 miles from Downtown L.A. It is the third busiest airport in the United States with over 740 daily nonstop flights within the U.S. and over 1,200 weekly non-stop flights to 76 cities in 41 countries. Upon arrival to LAX, various forms of transportation including taxis, shuttles and ride-share services, are available, making it convenient and easy to get from LAX to your final destination.

PASSPORTS & VISAS

Most international travelers are required to obtain a visa from the U.S. Department of State. For more information, visit <http://travel.state.gov>. If you require an invitation letter to obtain a visa, please contact the SRS Meetings Team at meetings@srs.org.

CLIMATE

Los Angeles is known for its year-round warm weather and on average gets over 290 days of sunshine per year. July in L.A. is warm and sunny, with average temperatures ranging from 83°F (28°C) to 64°F (18°C).

TIME ZONE

Los Angeles is in United States Pacific Time which is three (3) hours behind US Eastern Time and eight (8) hours behind Greenwich Mean Time, GMT-8.

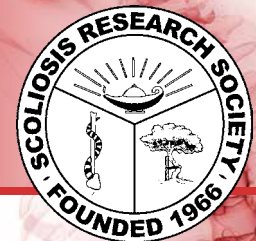
ELECTRICITY

The United States operates on 120 volts, compared to the standard 220 volts in Europe.



Save the Date

FROM THE SCOLIOSIS RESEARCH SOCIETY &
THE ASIA PACIFIC SPINE SOCIETY



11TH SPINE DEFORMITY SOLUTIONS: **A HANDS-ON COURSE**

SEPTEMBER 7-9, 2018

Hong Kong University – Surgical Skills Centre
Hong Kong, The People's Republic of China

Program Chairs: Ahmet Alanay, MD; Kenneth MC Cheung, MD; Munish Gupta, MD; KS Sivananthan, MD
Registration Opens May 1, 2018

REGISTRATION INFORMATION

DATES TO REMEMBER

Registration Open	February 15, 2018
Advance Group Registration Deadline	June 1, 2018
Advance Registration Deadline	June 15, 2018

Base Registration Fees	Advance Registration <i>on or before June 15, 2018</i>	One-Day <i>July 11 or 14</i>	One-Day <i>July 12 or 13</i>	Onsite Registration <i>July 11-14</i>
SRS Fellows – Physician	\$900 USD	\$250 USD	\$500 USD	\$1,000 USD
SRS Fellows – Non-Physician	\$450 USD	\$250 USD	\$500 USD	\$550 USD
SRS Emeritus Fellows	\$450 USD	\$250 USD	\$500 USD	\$550 USD
Resident/Fellow/Medical Student	\$450 USD	\$250 USD	\$500 USD	\$550 USD
Non-Member Physician	\$1,100 USD	\$250 USD	\$500 USD	\$1,200 USD
Non-Member Non-Physician	\$550 USD	\$250 USD	\$500 USD	\$650 USD
Industry Representative	\$1,150 USD	\$250 USD	\$500 USD	\$1,250 USD
Delegates from Reduced Rate Counties**	\$400 USD	\$250 USD	\$500 USD	\$500 USD
Guest	\$0	\$0	\$0	\$0

*the delegate base registration fee includes entrance to the general and concurrent sessions, special symposia, instructional course lectures, roundtable discussions, complication series, debates, lunch with the experts, the IMAST exhibit hall, breakfasts, breaks, lunches and the Welcome Reception on Wednesday, July 11.

**For information on countries that qualify for reduced rate registration, please visit the SRS website at www.srs.org/imast2018/registration.

REGISTRATION PROCEDURE

Online registration for the 25th IMAST is encouraged. However, delegates and guests may also register by completing and mailing or faxing the Registration Form at the back of this program. All registrations will be confirmed via email. If you do not receive a confirmation within two weeks of submission, please contact SRS at +1-414-289-9107, or meetings@srs.org.

The advance registration deadline is June 15, 2018. After this date, registrations will only be accepted onsite. No exceptions will be made.

WHAT'S INCLUDED?

The delegate base registration fee includes entrance to the general and concurrent sessions, instructional course lectures, complication series, roundtable and case discussions, debates, lunch with the experts, the IMAST exhibit hall, breakfasts, breaks, lunches, and the Welcome Reception and Special Symposium on Wednesday, July 11. Optional tours may also be added for additional fees, as indicated on the tour provider's website.

GUEST ATTENDANCE (DOES NOT INCLUDE SESSION ADMITTANCE)

Guests must complete and submit a separate Registration Form. Guest registration gives individuals the ability to register for the Welcome Reception on Wednesday, July 11 for \$20. For a list of optional tour descriptions and pricing, please click on the Tour tab on the IMAST website (www.srs.org/imast2018/tours). **Entrance to the scientific sessions is not included in guest registration fees.** Only guests registered as Non-Member Non-Physicians will be allowed to participate in the scientific sessions and breaks. Sorry, no exceptions will be made.

GUEST ATTENDANCE (INCLUDES SESSION ADMITTANCE)

Guests wishing to attend the Scientific Program should register as Non-Member Non-Physicians by filling out a separate Registration Form. Guests that register as a Non-Member Non-Physician will receive entrance to the general and concurrent sessions, instructional course lectures, roundtable and case discussions, complication series, debates, the IMAST exhibit hall, breakfasts, breaks, lunches, and the Welcome Reception on Wednesday, July 11.

REGISTRATION INFORMATION

EXHIBITORS

Exhibitor registration instructions will be mailed to exhibiting companies with the booth assignments in February 2018.

SUBSTITUTIONS

Name substitutions must be made to SRS in writing prior to June 15, 2018. Any name substitutions made after June 15, including onsite, will result in a \$100 processing fee. If the original registrant shows up at the meeting, he/she will be responsible for a new onsite registration fee.

CANCELLATIONS & REFUNDS

All cancellations must be received in writing. Delegates may fax their cancellation to (414) 276-3349 or email it to meetings@srs.org. Delegates will receive a confirmation and refund within 14 days of receipt of their cancellation notice. SRS will grant a full refund, less a 10% processing fee, for cancellations received in writing on or before June 29, 2018. No refunds will be granted after June 29, 2018.

INVITATION LETTERS

Invitations letters for visa requests are available for registered delegates by contacting meetings@srs.org.

HOUSING INFORMATION

A block of rooms is being held courtesy of the Scoliosis Research Society for the 25th IMAST at the headquarters hotel and meeting location, the JW Marriott Los Angeles at L.A. LIVE.

Attendees are encouraged to book their reservations at the SRS headquarters hotel. Staying at the headquarters hotel not only allows attendees to take advantage of special discounted room rates, but also puts them in close proximity to all meeting events for maximum interaction with fellow attendees and faculty and a hassle-free experience. Additionally, booking in the block helps the Society avoid penalties for not filling its hotel block, which keeps meeting expenses and thus registration rates lower, and a achieve a consistent hotel booking history that helps SRS continue to negotiate the lowest room rates possible for future meetings.

SRS will not make hotel reservations. All reservations, cancellations and changes to reservations should be made directly with the hotel. All cancellation and refund policies are at the discretion of the hotel.

Housing Opens: February 15, 2018

Housing Closes: June 18, 2018

Reservation Link: www.srs.org/imast2018/housing

JW Marriott Los Angeles at L.A. LIVE

900 W Olympic Blvd

Los Angeles, CA 90015

Phone: +1 213-765-8600

ROOM RATES:

Single/Double – \$284 USD

Additional Person – \$20 USD

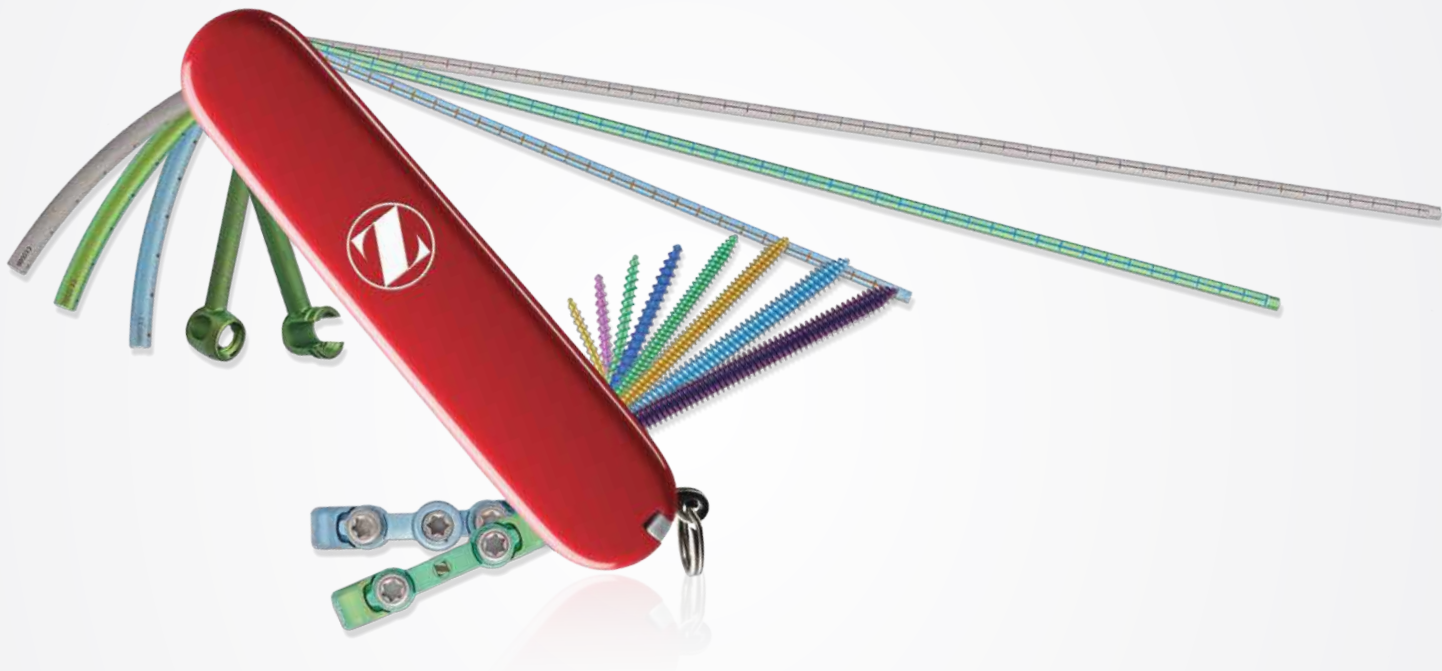
Hotel room rates are subject to applicable state and local taxes in effect at the time of check-out.

The group room rate will be applicable three (3) days prior and three (3) days post the meeting dates.



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MEETING OVERVIEW

	Wednesday, July 11	Thursday, July 12	Friday, July 13	Saturday, July 14
Morning	<p>8:00-12:00 Final Exhibit Set-up Board of Directors Meeting</p>	<p>7:45-8:45 Hands on Workshops* <i>with Breakfast</i></p> <p>7:45-17:00 Delegate Registration Open</p> <p>8:00-17:30 Exhibit Hall Open</p> <p>9:00-10:35 General Session: Whitecloud Clinical Award Nominees & Presidential Address</p> <p>10:35-11:05 Exhibit Viewing & Refreshment Break*</p> <p>11:05-12:30 Concurrent Abstract Sessions</p>	<p>7:45-8:45 Hands on Workshops* <i>with Breakfast</i></p> <p>7:45-16:00 Delegate Registration Open</p> <p>8:00-16:00 Exhibit Hall Open</p> <p>9:00-10:00 Concurrent Abstract Sessions</p> <p>10:00-10:30 Exhibit Viewing & Refreshment Break*</p> <p>10:30-11:50 Concurrent Abstract Sessions</p>	<p>8:30-11:00 Delegate Registration Open</p> <p>8:30-9:00 Breakfast</p> <p>Exhibit Hall Closed</p> <p>9:00-10:00 Concurrent ICL Sessions</p> <p>10:15-11:15 General Session: Surgical Video Session</p> <p>11:15-11:45 Walking Break & Boxed Lunch Pick-up*</p>
Afternoon	<p>12:00-13:00 Final Exhibit Set-up Exhibitor Registration Open Board of Directors Meeting</p> <p>13:00-19:00 Delegate Registration Open</p> <p>14:00-15:45 Special Symposium</p> <p>16:00-18:00 Hands-On Workshops* <i>with snacks & refreshments</i></p>	<p>12:30-13:30 Hands-On Workshops* <i>with Lunch</i> Exhibit Viewing & Lunch*</p> <p>13:45-14:45 Concurrent Debate Sessions</p> <p>15:00-15:40 Concurrent Case Presentation Sessions</p> <p>15:40-16:10 Exhibit Viewing & Refreshment Break*</p> <p>16:10-17:10 Concurrent Complication Sessions</p>	<p>12:00-13:00 Hands-On Workshops* <i>with Lunch</i> Exhibit Viewing & Lunch*</p> <p>13:10-14:10 Concurrent Sessions</p> <p>14:15-15:15 Concurrent ICL Sessions</p> <p>15:15-15:45 Exhibit Viewing & Refreshment Break*</p> <p>15:45-16:45 Concurrent Complication Sessions</p>	<p>11:45-13:00 General Session: Lunch with Experts</p> <p>13:00 Adjourn</p>
Evening	<p>18:00-20:00 Welcome Reception* <i>in the Exhibit Hall</i></p>	<p>17:15-18:15 Hands-On Workshops* <i>with snacks & refreshments</i></p> <p>Free Evening</p>	<p>Free Evening</p>	

*Denotes non-CME session

SCIENTIFIC PROGRAM

Topics and faculty are preliminary and subject to change.

WEDNESDAY, JULY 11, 2018

13:00-19:00

Registration Open

14:00-15:45

Special Symposium

Building Efficiencies and Minimizing Redundancies/ 25 Years of IMAST from Those Who Built It

Part 1

Moderators: Marinus De Kleuver, MD, PhD; Peter O. Newton, MD; David W. Polly, Jr., MD

14:00 - 14:15 How to Minimize Redundancies in Resource Allocation for Spine Surgery
Todd J. Albert, MD

14:15-14:30 How to Build a Spine Hospital
Lawrence G. Lenke, MD

14:30-14:45 How Do You Build a “Center of Excellence” from the Payor Perspective?
Rajiv K. Sethi, MD

14:45-15:10 Discussion

Part 2

Moderators: Henry F.H. Halm, MD; Ronald A. Lehman, Jr., MD; Christopher I. Shaffrey, MD

15:10-15:25 First IMAST Chair: How it All Started
Randal R. Betz, MD

15:25 - 15:35 Perspectives on the Evolution of IMAST
Lawrence G. Lenke, MD

15:35-15:40 How IMAST has had to Change with Evolving Regulation and Healthcare
Todd J. Albert, MD

15:40-15:45 Discussion

15:45-16:00

Walking Break

16:00-18:00

***Hands-On Workshops**

(See “Exhibits and Hands-On Workshops (HOW) section on page 17 for more information.)

18:00-20:00

Welcome Reception in the Exhibit Hall

THURSDAY, JULY 12, 2018

17:45-17:00

Registration Open

7:45-8:45

***Hands-On Workshops with Breakfast**

(See “Exhibits and Hands-On Workshops (HOW) section on page 17 for more information.)

8:00-17:30

Exhibits Open

8:00-8:45

Exhibit Viewing & Breakfast

9:00-10:35

Session 1

Welcome Address

*Ronald A. Lehman, Jr., MD
IMAST Committee Chair*

Whitecloud Clinical Award Nominees

Moderators: Henry F.H. Halm, MD & Paul D. Sponseller, MD, MBA

More information on podium presentations will be posted to the SRS website prior to the meeting.

Introduction of the President

Peter O. Newton, MD

Keynote Address

*Todd J. Albert, MD
Scoliosis Research Society (SRS) President*

Preview of the 53rd Annual Meeting and 26th IMAST Annual Meeting – Bologna, Italy
IMAST – Amsterdam, The Netherlands

10:35-11:05

Refreshment Break & Exhibit Viewing

SCIENTIFIC PROGRAM

Topics and faculty are preliminary and subject to change.

THURSDAY, JULY 12, 2018

11:05-12:30

Concurrent Sessions 2A-C: Abstract Sessions

2A. Whitecloud Basic Science Nominees and Top-Scoring Abstracts

Moderators: *Kenneth MC Cheung, MD & Stephan Parent, MD, PhD*
More information on podium presentations will be posted to the SRS website prior to the meeting.

2B. Adult Deformity Abstracts

Moderators: *Munish Chandra Gupta, MD & Daniel M. Sciubba, MD*
More information on podium presentations will be posted to the SRS website prior to the meeting.

2C. Early Onset Scoliosis Abstracts

Moderators: *Lindsay M. Andras, MD; Luiz Munhoz Da Rocha, MD; David K. Skaggs, MD*
More information on podium presentations will be posted to the SRS website prior to the meeting.

12:30-13:30

Exhibit Viewing & Lunch

*Hands-On Workshops with Lunch

(See "Exhibits and Hands-On Workshops (HOW) section on page 17 for more information.)

13:45-14:45

Concurrent Sessions 3A-B: Debates

3A: Controversies in Spine Surgery: Adult

Moderators: *Jeffrey D. Coe, MD; Steven D. Glassman, MD; Praveen V. Mummaneni, MD*

13:45-14:15

Debate #1 SI Joint Fusion: To Fuse or Not to Fuse?

- | | |
|-------------|--|
| 13:45-13:55 | SI Joint Fusion Provides Great Improvements in Pain and Function
<i>David W. Polly, Jr., MD</i> |
| 13:55-14:05 | Why Do You Dislike the Joint? Leave It Alone
<i>TBD</i> |
| 14:05-14:15 | Discussion |

14:15-14:45

Debate #2 ALIF vs TLIF for Sagittal Restoration in Deformity Correction

- | | |
|-------------|--|
| 14:15-14:25 | ALIF Gets Better with Correction and Lordosis
<i>Christopher I. Shaffrey, MD</i> |
| 14:25-14:35 | TLIF - I Can Get Great Correction with Lordotic Cages and Good Technique without the Morbidity
<i>Lawrence G. Lenke, MD</i> |
| 14:35-14:45 | Discussion |

3B: New and Innovative Advances in Spine Care: MIS, Lateral, Antepsoas, Navigation and Robotics

Moderators: *Douglas C. Burton, MD, PhD; Hani H. Mhaidli, MD, PhD; Juan S. Uribe, MD*

13:45-14:15

Debate #1

- | | |
|-------------|--|
| 13:45-13:55 | MIS TLIF - How to Do the Same Operation with Smaller Incisions
<i>Ronald A. Lehman, Jr., MD</i> |
| 13:55-14:05 | Complications of Lateral and Antepsoas Approach: To Spare or Spear
<i>Neel Anand, MD</i> |
| 14:05-14:15 | Discussion |

14:15-14:45

Debate #2

- | | |
|-------------|--|
| 14:15-14:25 | How Do I Choose to Utilize the Transpsaos Approach: Which Cases Does it Help Me Achieve Correction?
<i>Gregory M. Mundis, Jr., MD</i> |
| 14:25-14:35 | Navigation and Robotic Assistance: How to Incorporate These Technologies and How Do They Help?
<i>Shane Burch, MD, FRCSC</i> |
| 14:35-14:45 | Discussion |

14:45-15:00

Walking Break

SCIENTIFIC PROGRAM

Topics and faculty are preliminary and subject to change.

THURSDAY, JULY 12, 2018

15:00-15:40

Concurrent Sessions 4A-C: Case Presentations

4A: Degenerative Conditions of the Lumbar Spine

Moderators: Jeffrey D. Coe, MD; Steven D. Glassman, MD; Rick C. Sasso, MD

Case Presenter #1

Justin S. Smith, MD

Case Presenter #2

Sean Molloy, MBBS, FRCS(Orth), MSc

Case Presenter #3

Juan S. Uribe, MD

4B: Pediatric Deformity

Moderators: Firoz Miyanji, MD, FRCSC; Mauricio Montalvo, MD; Daniel J. Sucato, MD, MS

Case Presenter #1

Jahangir K. Asghar, MD

Case Presenter #2

Laurel C. Blakemore, MD

Case Presenter #3

Burt Yaszay, MD

4C: Cervical and Trauma

Moderators: Neel Anand, MD & Dean Chou, MD

Case Presenter #1

Vincent C. Treynelis, MD

Case Presenter #2

Jacob Buchowski, MD, MS

Case Presenter #3

Michael P. Kelly, MD

15:40-16:10

Refreshment Break & Exhibit Viewing

16:10-17:10

Concurrent Sessions 5A-B: Complications and How to Treat Them

5A: Adult Degenerative and Deformity Surgery

Moderators: Thomas J. Errico, MD & Ian J. Harding, BA, FRCS (Orth)

16:10-16:20 Proximal Junctional Failure

Han Jo Kim, MD

16:20-16:30 Pseudarthrosis

Henry F.H. Halm, MD

16:30-16:40 Adjacent Segment Degeneration - Degenerative Cases

Patrick C. Hsieh, MD, MSc

16:40-16:50 Fixed/Stiff Sagittal Imbalance After Previous Lumbar Degenerative Surgery

Khaled Kebaish, MD

16:50-17:10 Discussion

5B: My Worst Complication in Pediatric, Growing Spine and Neuromuscular Surgery and How I Treated It

Moderators: TBD & Daniel J. Sucato, MD, MS

Case Presenter #1

Kota Watanabe, MD

Case Presenter #2

Laurel C. Blakemore, MD

Case Presenter #3

Firoz Miyanji, MD, FRCSC

Case Presenter #4

Lindsay M. Andras, MD

17:15-18:15

*Afternoon Hands-On Workshops with Beverages and Snacks

(See "Exhibits and Hands-On Workshops (HOW) section on page 17 for more information.)

SCIENTIFIC PROGRAM

Topics and faculty are preliminary and subject to change.

FRIDAY, JULY 13, 2018

7:45-16:00

Registration Open

7:45-8:45

***Hands-On Workshops with Breakfast**

(See "Exhibits and Hands-On Workshops (HOW) section on page 17 for more information.)

8:00-16:00

Exhibits Open

8:00-8:45

Exhibit Viewing & Breakfast

9:00-10:00

Concurrent Sessions 6A-C: Abstract Sessions

6A: Adolescent Idiopathic Scoliosis Abstracts

Moderators: Mauricio Montalvo, MD & Harry Shufflebarger, MD

More information on podium presentations will be posted to the SRS website prior to the meeting.

6B: Kyphosis/Congenital/Neuromuscular Deformity Abstracts

Moderators: TBD & Stefan Parent, MD, PhD

More information on podium presentations will be posted to the SRS website prior to the meeting.

6C: Trauma & Tumor Abstracts

Moderators: Andrew H. Jea, MD & Michael Ruf, MD

More information on podium presentations will be posted to the SRS website prior to the meeting.

10:00-10:30

Refreshment Break & Exhibit Viewing

10:30-11:50

Concurrent Sessions 7A-C: Abstract Sessions

7A: Lumbar Degenerative/Spondylolisthesis Abstracts

Moderators: Ian J. Harding, BA, FRCS (Orth) & Patrick C. Hsieh, MD, MSc

More information on podium presentations will be posted to the SRS website prior to the meeting.

7B: Cervical Spine Abstracts

Moderators: D. Kojo Hamilton, MD, FAANS & Peter S. Rose, MD

More information on podium presentations will be posted to the SRS website prior to the meeting.

7C: Complications/Infections Abstracts

Moderators: Sébastien Charosky, MD & Mario DiSilvestre, MD

More information on podium presentations will be posted to the SRS website prior to the meeting.

12:00-13:00

Exhibit Viewing & Lunch

***Hands-On Workshops with Lunch**

(See "Exhibits and Hands-On Workshops (HOW) section on page 17 for more information.)

13:10-14:10

Concurrent Sessions 8A-C: Debates, Cases, and Instructional Course Lectures

8A: Spinal Deformity: Denovo/Degenerative Adult Lumbar Scoliosis

Moderators: John R. Dimar, II, MD & Jacob M. Buchowski, MD, MS

13:10-13:20 For Which Lumbar Degenerative States Should Sagittal Balance be a Priority: 1 -2 Level, Degen Scoli or Both?
Steven D. Glassman, MD

13:20-13:30 When Can You Perform Limited Decompression or Fusion without Correcting the Scoliosis?
Thomas J. Errico, MD

13:30-13:40 Discussion

13:40-14:10

Debate: How Many Spinopelvic Parameters are Necessary for a Good Result in Adult Deformity?

13:40-13:50 We Only Need Very Few Spinopelvic Parameters for a Good Outcome
Hani H. Mhaidli, MD

13:50-14:00 We Need Many Spinopelvic Parameters for a Good Outcome
Han Jo Kim, MD

14:00-14:10 Discussion

8B: Debates: Cervical Considerations for Deformity and Degenerative Spine

Moderators: Todd J. Albert, MD & D. Kojo Hamilton, MD, FAANS

13:10-13:40

Debate #1: Cervical Deformity and Alignment

13:10-13:20 C2-7 SVA Tells Us Everything
Christopher P. Ames, MD

13:20-13:30 Cervical Alignment Numbers Don't Tell the Whole Story
Vincent C. Traynelis, MD

13:30-13:40 Discussion

SCIENTIFIC PROGRAM

Topics and faculty are preliminary and subject to change.

FRIDAY, JULY 13, 2018

13:40-14:10

Debate #2: Cervical Spondylotic Myelopathy

- 13:40-13:50 Use of ACDF and Corpectomy for the Treatment of SCM: When I Use the Anterior Approach
Rick C. Sasso, MD
- 13:50-14:00 Posterior Laminectomy/Laminoplasty +/- Fusion - Posterior is Optimal
Praveen V. Mummaneni, MD
- 14:00-14:10 Discussion

8C: The Growing Spine - Current State of the Art: Which Patients are Candidates, Technologies and Treatment Decisions: Case Presentations

Moderators: *Peter O. Newton, MD & Paul D. Sponseller, MD, MBA*

- Case Presenter #1
Amer F. Samdani, MD
- Case Presenter #2
Ron El-Hawary, MD
- Case Presenter #3
Ahmet Alanay, MD
- Case Presenter #4
David L. Skaggs, MD

14:15-15:15

Concurrent Sessions 9A-C: Instructional Course Lectures

9A: Value and Quality: Where are We Now and Where Do We Have to Go?

Moderators: *Todd J. Albert, MD & Rajiv K. Sethi, MD*

- 14:15-14:25 What is Population Health and Why Does this Matter?
Steven D. Glassman, MD
- 14:25-14:35 Predictive Analytics and Risk Stratification: Future Directions
Frank J. Schwab, MD
- 14:35-14:45 What is the MCID and How do We Achieve in Spine Surgery
Michael P. Kelley, MD
- 14:45-14:55 To Stage or Not to Stage: Convenience, Physiologic Benefit and Reimbursement Implications
Serena S. Hu, MD
- 14:55-15:15 Discussion

9B: Coronal Plane Balance in Adult Deformity Surgery: The Forgotten Stepchild!

Moderators: *Shane Burch, MD, FRCSC & Mario DiSilvestre, MD*

- 14:15-14:23 Recognizing and Correcting the Stiff Fractional Lumbar Curve
Yong Qiu, MD
- 14:23-14:31 Intraop Techniques to Analyze and Confirm Optimal Coronal Alignment and How Does that Translate to Postop Balance in AIS
Kota Watanabe, MD
- 14:31-14:39 Avoiding and Treating the Dilemma of Preop Coronal Balance with Intraop Imbalance: What are the Options
Gregory M. Mundis, Jr., MD
- 14:39-14:47 Intraop Correction of Flexible vs. Stiff Coronal Plane Imbalance: Role of the "Kickstand" Screw-Rod Construct
Peter Angevine, MD, MPH
- 14:47-14:55 Postop Coronal Imbalance: What are the Options?
Sébastien Charosky, MD
- 14:55-15:15 Discussion

15:15-15:45

Walking Break

15:45-16:45

Concurrent 10A-C: Case Presentations

10A. Common Challenges in Adult Spinal Deformity: Treatment Based Case Approach

Moderators: *Munish Chandra Gupta, MD & Henry F. H. Halm, MD*

- 15:45-15:55 Proximal Junctional Kyphosis T10 vs T3/4
Christopher I. Shaffrey, MD
- 15:55-16:05 Postop Nerve Root Deficit
John R. Dimar, II, MD
- 16:05-16:15 Lessons for Performing Pedicle Subtraction Osteotomy: These Have Kept Me Out of Trouble
Lawrence G. Lenke, MD
- 16:15-16:25 Intraoperative Bleeding: How to Control and How to Prophylaxis
Michael Ruf, MD
- 16:25-16:45 Discussion

SCIENTIFIC PROGRAM

Topics and faculty are preliminary and subject to change.

FRIDAY, JULY 13, 2018

10B. Common Challenges in Pediatric Spine Surgery: Case Presentations

Moderators: *Jahangir K. Asghar, MD; Kenneth MC Cheung, MD; Marinus De Kleuver, MD*

- 15:45-15:55 Failure to Achieve Desired Correction
Suken A. Shah, MD
- 15:55-16:05 Intraoperative Neuromonitoring Data Loss
Daniel J. Sucato, MD, MS
- 16:05-16:15 Postoperative Distal Curve that Doesn't Correct: How to Follow and When to Revise
Ahmet Alanay, MD
- 16:15-16:25 Blood Loss and Fixation Concerns in Neuromuscular Patients
Paul D. Sponseller, MD, MBA
- 16:25-16:45 Discussion

10C. The Latest in Spine Tumor Treatment: Case Presentations

Moderators: *Dean Chou, MD & Andrew H. Jea, MD*

- 15:45-15:55 Metastatic Spine Disease: How Do We Classify and Determine Who Needs Surgery?
Peter Angevine, MD, MPH
- 15:55-16:05 Innovative Treatments for Spinal Tumors (MIS, Technologies, etc)
Daniel M. Sciubba, MD
- 16:05-16:15 En Bloc Spondylectomy for Primary Malignant Tumors. Technique, Tips and Tricks
Peter Rose, MD
- 16:15-16:25 Cervical Tumors: Special Considerations and Treatment
Christopher P. Ames, MD
- 16:25-16:45 Discussion

SATURDAY, JULY 14, 2018

8:30-11:00

Registration Open

8:30-9:00

Breakfast/ Exhibits Closed

9:00-10:00

Concurrent Sessions 11A-B: Instructional Course Lectures

11A: AIS - Most Current Practices: How the Experts Decide

Moderators: *Laurel C. Blakemore, MD; Harry L. Shufflebarger, MD; Paul D. Sponseller, MD, MBA*

9:00-9:10 Best Practices for Bracing and Nonsurgical Care: Role of Bracing (which type), PT, and When to Operate
Luiz Munhoz Da Rocha, MD

9:10-9:20 Decision Making for Lenke 1 and 3 Curves: What Degree Do We Operate, When to Intervene in Athletes, and When to Perform STF vs. Fusing to L3/4 - S
Burt Yaszay, MD

9:20-9:30 When Do I Brace and When Do I Tether?
Amer F. Samdani, MD

9:30-9:40 Complex Decision Making in JIS and AIS
Peter O. Newton, MD

9:40-10:00 Controversial Cases - Panel and Audience Interactive

11B: Adult Spinal Deformity - Expert Decision Making and Practices

Moderators: *Douglas C. Burton, MD, Christopher I. Shaffrey, MD*

9:00-9:10 Correction Mechanics for Denovo Scoliosis: Addressing the Coronal and Sagittal Plane - Recipe for Success
Serena S. Hu, MD

9:10-9:20 How to Recognize Patients At Risk for PJK, Treatment Strategies, How to Address when Failure Occurs
Justin S. Smith, MD, PhD

9:20-9:30 How I Sift through the Numbers: Which Ones Do I Use When Choosing the Right Surgery
Frank J. Schwab, MD

9:30-9:40 When Do I Choose Interbody and PCO vs 3 Column Osteotomy: Decision Making, Controversies and Treatment
Yong Qiu, MD

9:40-10:00 Controversial Cases - Panel and Audience Interactive

SCIENTIFIC PROGRAM

Topics and faculty are preliminary and subject to change.

SATURDAY, JULY 14, 2018

10:00-10:15

Walking Break

10:15-11:15

Session 12: Surgical Video Session: How I Do It

Moderators: John R. Dimar, II, MD; Gregory M. Mundis, Jr., MD; David W. Polly, Jr., MD

10:15-10:23 Use of Lateral and Antepsoas Approach to Assist with Correction
Neel Anand, MD

10:23-10:31 Robotic Assisted Spine Surgery: What Does it Look Like, Benefits and Workflow Changes
Ronald A Lehman, Jr., MD

10:31-10:39 Open Thoracoabdominal Approach: When to Use and Hope to Achieve; Still a Useful tool
Sean Molloy, MBBS, FRCS(Orth), MSc

10:39-10:47 AIS Derotation: How I Correct a Lenke 1 vs Lenke 3
Ron El-Hawary, MD

10:47-10:55 Vertebral Column Resection (VCR): Steps to Ensure Safety and Efficacy
Lawrence G. Lenke, MD

10:55-11:15 Discussion

11:15-11:45

Walking Break & Boxed Lunch Pick-up

11:45-13:00

Session 13: Lunch with the Experts: Real Life Surgical Dilemmas: React Quickly to Minimize Complications - The Next 5 Minutes is Critical - Step by Step

Moderators: Todd J. Albert, MD; Kenneth MC Cheung, MD; Ronald A. Lehman, Jr., MD

11:45-11:55 Complete Loss of Neuromonitoring Data During Deformity Correction
Lawrence G. Lenke, MD

11:55-12:05 What I Do When I'm Having Difficulty Achieving Fixation: Alternatives and Back Up Options
Peter O. Newton, MD

12:05-12:15 Managing Massive Dural Tear During Decompression: Pack, Repair Call for Help?
Christopher I. Shaffrey, MD

12:15-12:25 Vertebral Artery Injury During Cervical Surgery: What to Do
Christopher P. Ames

12:25-12:35 Severe Blood Loss with MIS Approaches: Lateral, Antepsoas, MIS TLIF: How I Get Myself Out of It
Juan S. Uribe, MD

12:35-1:00 Discussion

13:00

Adjourn





COMPLEX SPINE
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FOR OUR EDUCATIONAL WORKSHOPS

WEDNESDAY, JULY 11
16:00–18:00

THURSDAY, JULY 12
12:30–13:30

THURSDAY, JULY 12
17:15–18:15

FRIDAY, JULY 13
12:00–13:00



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EXHIBITS AND HANDS-ON WORKSHOPS

Exhibiting and demonstrating companies are subject to change.

EXHIBITS

SRS encourages IMAST delegates to visit the IMAST Exhibit Hall during exhibit viewing times and between sessions. The following companies will be represented in the IMAST 2018 Exhibit Hall (as of February 2018)

Exhibit Hall Hours:

Wednesday, July 11	14:00-20:00
Thursday, July 12	8:00-17:30
Friday, July 13	8:00-16:45

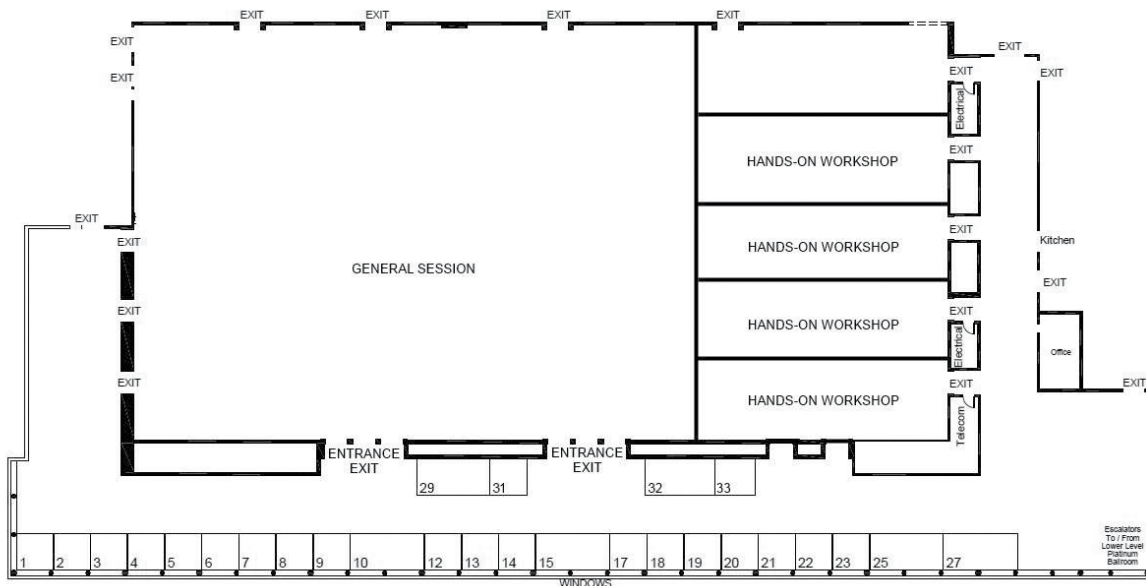
Company	Booth #	Company	Booth #
Biologica Technologies	6	NASS	20
DePuy Synthes	15	NuVasive	32
Diers Medical	21	Orthofix	22
EOS Imaging	17	OrthoPediatrics	33
Genoss Co.	19	Paradigm Spine	14
Globus Medical	27	Silony Medical Europe	13
Implanet	7	Spinal Balance	8
K2M	29	Stryker Spine	9
Medicrea	23	Titan Spine	18
Medtronic	10	Zimmer Biomet	25
Medyssey	12		
Misonix	31		

HANDS-ON WORKSHOPS

(as of February 2018)

IMAST delegates are encouraged to attend the Hands-On Workshops (HOW) on Wednesday and Thursday afternoons, at lunch on Thursday and Friday and during breakfast on Thursday and Friday mornings. Each workshop is programmed by a single- supporting company and will feature presentations on topics and technologies selected by the company (as of February 2018). *Please note: CME credits are not available for Hands-On Workshops.

	Wednesday, July 11	Thursday, July 12	Friday, July 13
Morning		7:45-8:45	7:45-8:45
		Medtronic	Zimmer Biomet
		DePuy Synthes	
Lunch		12:30-13:30	12:00-13:00
		NuVasive	NuVasive
		Medtronic	K2M
		K2M	Globus
		Zimmer Biomet	DePuy Synthes
Afternoon	16:00-18:00	17:15-18:15	
	K2M	K2M	
	Zimmer Biomet		



SOCIAL EVENTS & OPTIONAL ACTIVITIES

WELCOME RECEPTION

All registered delegates and registered guests are invited to pick up their registration materials and to attend the IMAST Welcome Reception on Wednesday, July 11 from 18:00-20:00. The reception will be hosted in the Exhibit Hall in the Diamond Foyer at the JW Marriott Los Angeles at L.A. LIVE, where beverages and light hors d'oeuvres will be served. There is no charge for registered delegates, though a ticket must be requested at the time of registration. Registered guests may purchase a Welcome Reception ticket for \$20 USD at the time of registration. Dress for the Welcome Reception is business casual.

We encourage delegates to take part in the following afternoon activities before the Welcome Reception on Wednesday, July 11.

14:00-15:45

**** Special Symposium****

Building Efficiencies and Minimizing Redundancies/ 25 Years of IMAST from Those Who Built It

16:00-18:00

Hands-On Workshops with Beverages & Snacks

COURSE RECEPTION

There will be no Course Reception at the 25th IMAST; attendees are free to plan their evening as they like and enjoy Los Angeles.

OPTIONAL TOURS

Please visit www.srs.org/imast2018/tours for a list of some of the incredible tours and attractions available for you during your visit to Los Angeles, CA.



Current Concepts in  **SPINE DEFORMITY**

Buenos Aires, Argentina | August 30-31, 2018
In collaboration with the Argentine Society of Pathology of the Vertebral Column(SAPCV)

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ABOUT SRS

Founded in 1966, the Scoliosis Research Society is an organization of medical professionals and researchers dedicated to improving care for patients with spinal deformities. Over the years, it has grown from a group of 35 orthopaedic surgeons to an international organization of more than 1,300 health care professionals.

MISSION STATEMENT

The purpose of the Scoliosis Research Society is to foster the optimal care of all patients with spinal deformities.

MEMBERSHIP

SRS is open to orthopaedic surgeons, neurosurgeons, researchers and allied health professionals who have a practice that focuses on spinal deformity.

Active Fellowship (membership) requires the applicant to have fulfilled a five-year Candidate Fellowship and have a practice that is 20% or more in spinal deformity. Only Active Fellows may vote and hold elected offices within the Society.

Candidate Fellowship (membership) is open to orthopaedic surgeons, neurosurgeons and to researchers in all geographic locations who are willing to commit to a clinical practice which includes at least 20% spinal deformity. Candidate Fellows stay in that category for five years, during which time they must demonstrate their interest in spinal deformity and in the goals of the Scoliosis Research Society. Candidate Fellows may serve on SRS committees. After five years, those who complete all requirements are eligible to apply for Active Fellowship in the Society. Candidate Fellowship does not include the right to vote or hold office.

Associate Fellowship (membership) is for distinguished members of the medical profession including nurses, physician assistants, as well as orthopaedic surgeons, neurosurgeons, scientists, engineers and specialists who have made a significant contribution to scoliosis or related spinal deformities who do not wish to assume the full responsibilities of Active Fellowship. Associate Fellows may not vote or hold office, but may serve on committees.

Senior Candidate Fellowship (membership) is limited to senior surgeons, neurosurgeons and to non-physicians members of allied specialties. This candidacy is a path to SRS Active Fellowship. Senior surgeons have the opportunity to become Active Fellows of SRS in two years and not 5 years like the regular Candidate Fellowship track. They must have 20 years of experience (time spent with fellowship and training does not count), be a full professor, head of spine unit

or chief of spine division, clinical practice which includes 20% spinal deformity. After two years, those who complete all requirements are eligible to apply for Active Fellowship in the Society. Senior Candidate Fellowship does not include the right to vote or hold office.

See website for membership requirement details.

PROGRAMS AND ACTIVITIES

SRS is focused primarily on education and research that include the Annual Meeting, the International Meeting on Advanced Spine Techniques (IMAST), Worldwide Conferences, a Global Outreach Program, the Research Education Outreach (REO) Fund which provides grants for spine deformity research, and development of patient education materials.

WEBSITE INFORMATION

For the latest information on SRS meetings, programs, activities and membership please visit www.srs.org. The SRS Website Committee works to ensure that the website information is accurate, accessible and tailored for target audiences. Site content is varied and frequently uses graphics to stimulate ideas and interest. Content categories include information for medical professionals, patients/public, and SRS members.

For more information and printable membership applications, please visit the SRS website at www.srs.org.

SOCIETY OFFICE STAFF

Tressa Goulding, CAE – Executive Director (tgoulding@srs.org)
Lily Atonio – Education and Program Manager (latonio@srs.org)
Kathy Blanke, RN – Medical Program Manager (kblanke@srs.org)
Alysha Chapman, CNP – Membership Manager (achapman@srs.org)
Ann D'Arienzo, CMP – Senior Meetings Manager (adarianzo@srs.org)
Jenifer Heller – Program Manager (jheller@srs.org)
Courtney Kissinger – Senior Education Manager (ckissinger@srs.org)
Lauren Kritter – Education Coordinator (lkritter@srs.org)
Ashtin Neuschaefer – Director of Administration (aneuschaefer@srs.org)
Shawn Storey – Website and Program Manager (sstorey@srs.org)

SCOLIOSIS RESEARCH SOCIETY

555 East Wells Street, Suite 1100
Milwaukee, WI 53202
Phone: 414-289-9107
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2017 RESEARCH GRANT RECIPIENTS

The SRS Research Grant Committee would like to congratulate the following 2017 grant recipients:

OVERVIEW OF SRS RESEARCH PROGRAMS

The SRS Research funds are dedicated solely to research seeking improved treatments, the causes and possible prevention of spinal deformities. Since 1994, SRS has provided more than \$4.4 million for 137 spinal deformity research projects from the institutions all over the world, including the United States, Australia, Canada, China, France and Israel. These have included studies on improved spinal cord monitoring during surgery, brace treatment effectiveness, methods to improve fusion rates, and three large studies looking for the cause of idiopathic scoliosis.

In 2017, SRS received 38 grant applications, requesting a total of over \$1.3 million. The following 6 projects were selected for funding.

Title of Project	Primary Investigator/ Location	Grant Duration	Type of Grant	Amt. Approved
Alveolar Recovery After Posterior Spinal Fusion	Brian Varisco, MD/ Cincinnati, OH, USA	2 Years	Standard Investigator Grant	\$50,000
Functional Role of Gene Variants in Adolescent Idiopathic Scoliosis	Florina Moldovan/ Montreal, QC, Canada	2 Years	SRS-Globus Standard Investigator Grant	\$50,000
The Spinal Balance Score: A Novel Linear and Unidimensional Patient-reported Outcome Measure for Adult Spinal Deformity	Dominique Rothenfluh, MD, PhD/Oxford, United Kingdom	2 Years	SRS-Zimmer Biomet Standard Investigator Grant	\$25,000
Identification of Genes Causing Idiopathic-type Scoliosis in the Medaka Model	Kristen Gorman, PhD/ Montreal, QC, Canada	1 Year	New Investigator Grant	\$25,000
Growth of the Spine in Children - A longitudinal, Prospective Investigation	James O. Sanders, MD/ Rochester, NY, USA	2 Years	SRS-Globus Standard Investigator Grant	\$49,886
Endplate Micro-structure, Bone Quality, and Mechanical Properties: In-vitro Biomechanical Investigation Towards Predicting Endplate Fractures	Serkan Inceoglu, PhD/ Loma Linda, CA, USA	1 Year	Small Exploratory Grant	\$10,000

CORPORATE SUPPORT OPPORTUNITIES

SRS Research Fund or Endowment Fund

Help to fund peer-reviewed projects selected by SRS. Donations to the Research Fund will be used as quality projects are approved, while Endowment Fund donations ensure the future of research. Acknowledgement will be made on the Research page of the SRS website, on donor boards at the Annual Meeting and in other printed materials.

Directed Research

Grants would fund projects on topic proposals solicited annually from the SRS membership and chosen by the Directed Research Task Force.

2017 AWARD RECIPIENTS

SRS AWARDS

Lifetime Achievement Awards

Presented to a member who has exhibited long and distinguished service to SRS and to spinal deformity research and care:

G. Dean MacEwen, MD
Howard H. Steel, MD

Walter P. Blount Humanitarian Award

Presented for outstanding service to those with spinal deformity, and for generosity to the profession and Society:

Kenneth J. Paonessa, MD

IMAST AWARDS

Whitecloud Award for Best Basic Science Paper

Paper #11: Changes in Cervical Facets Orientation During Child Growth

Sebastien Pesenti, MD; Renaud Lafage, MS; Benjamin Blondel; Emilie Peltier, MD; Elie Choufani, MD; Jean-Luc Jouve, MD, PhD

Whitecloud Award for Best Clinical Paper

Paper #6: 2-Year Outcomes of Spinal Growth Tethering vs. Posterior Spinal Fusion for Scoliosis Flexibility vs. Reliability

Peter O. Newton, MD; Dylan G. Kluck, MD; Wataru Saito, MD, PhD; Burt Yaszay, MD; Carrie E. Bartley, MD; Tracey P. Bastrom

ANNUAL MEETING AWARDS

Russell A. Hibbs Awards

The Russell A. Hibbs Award for the Best Basic Research Presentation was presented to:

Paper #31: Propionibacterium Acnes Survives Only in the Presence of Implants and Causes Late Infection

Yuta Shiono; Ken Ishii, MD; Kota Watanabe, MD, PhD; Morio Matsumoto, MD

The Russell A. Hibbs Award for the Best Clinical Research Presentation was awarded to:

Paper #34: Dose-Response Relationship of Tranexamic Acid in Adolescent Scoliosis Surgery

Susan M. Goobie, MD, FRCPC; Michael T. Hresko, MD; Michael P. Glotzbecker, MD; Daniel J. Hedequist, MD; John B. Emans, MD; Lawrence I. Karlin, MD; Mary Ellen Mccan, MD, MPH; Robert M. Brustowicz, MD; Navil F. Sethna, MD; Andres Navedo, MD; Elisabeth Dwyer, BSN; Xiayi Huang, BS; Luis Periera, PhD

John H. Moe Award

The John H. Moe Award is given to the Best Basic Science E-Poster at the Annual Meeting & Course. This year the award was presented to:

E-Poster #274: Development of a New Quaternary-Ammonium Bactericidal Coating with Anti-Biofilm Activity: Application on Covalently Grafted Titanium Surfaces

Houssam Bouloussa, MD, MS; Charles Court, MD, PhD

Louis A. Goldstein Award

The Louis A. Goldstein Award is given to the Best Clinical E-Poster at the Annual Meeting & Course. This year the award was presented to:

E-Poster #233: Evolution of Sagittal Plane Correction Durability and Associations With Patient Reported Outcome Measures (PROMS) For Long Fusions Terminating At The Upper Thoracic (UT) vs. Thoracolumbar (TL) Spine With Minimum 3 Yr Follow-Up

Munish Gupta, MD; Renaud Lafage, MS; Michael P. Kelly, MD; Christopher I. Shaffrey, MD; Gregory M. Mundis, MD; Richard Hostin, MD; Douglas C. Burton, MD; Christopher P. Ames, MD; Frank J. Schwab, MD; Han Jo Kim, MD; Eric O. Klineberg, MD; Shay Bess, MD; Justin S. Smith, MD, PhD; Virginie LaFage, PhD; International Spine Study Group

CORPORATE SUPPORT

We are pleased to acknowledge and thank those companies that provided financial support to SRS in 2017.

Support levels are based on total contributions throughout the year and include the Annual Meeting, IMAST, Global Outreach Scholarships, Edgar Dawson Memorial Scholarships, SRS Traveling Fellowships and the Research Education Outreach (REO) Fund.

DOUBLE DIAMOND LEVEL SUPPORT

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Medtronic
NuVasive

DIAMOND LEVEL SUPPORT

Zimmer Biomet

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Stryker Spine

GOLD LEVEL SUPPORT

OrthoPediatrics

SILVER LEVEL SUPPORT

Orthofix Spine

BRONZE LEVEL SUPPORT

Avalon Spine Care
CeraPedics
Creator Health
Elite Surgical
EOS Imaging
L&K Biomed

Medicrea
Misonix
Orthopeasia
PainSol
Paradigm Spine
Philips

RSC Bracing, South Africa
Telefield Medical Imaging
Wego
WinnTi Medical



25th International Meeting On Advanced Spine Techniques **JULY 11-14, 2018** LOS ANGELES, CALIFORNIA, USA
 Advance Registration Deadline: June 15, 2018 (Registrations will ONLY be accepted onsite after this date – no exceptions)

25th IMAST
 July 11-14, 2018
 LOS ANGELES, CA, USA

DELEGATE INFORMATION

ONLINE REGISTRATION AVAILABLE AT WWW.SRS.ORG/IMAST2018/REGISTRATION

SRS ID Number	First (Given) Name	Last (Family) Name	Suffix (Jr., III, etc)	Degree (MD, PhD, etc)
Email Address (All correspondence is done by email)			Institution	
Mailing Address				
City	State	Zip/Postal Code	Country (To appear on badge)	
Specialty: <input type="checkbox"/> Orthopaedic Surgeon <input type="checkbox"/> Neurosurgeon <input type="checkbox"/> Other: _____				
Assistant/Company Personnel Email Address: _____				
Dietary Restrictions/Requirements: _____				

Base Registration Fees*	Advance Registration On or Before June 15, 2018	One-Day Registration July 11 <input type="checkbox"/> or 14 <input type="checkbox"/>	One-Day Registration July 12 <input type="checkbox"/> or 13 <input type="checkbox"/>	Onsite Registration July 11-14
SRS Fellow – Physician	<input type="checkbox"/> \$900 USD	<input type="checkbox"/> \$250 USD	<input type="checkbox"/> \$500 USD	\$1,000 USD
SRS Fellow – Non-Physician	<input type="checkbox"/> \$450 USD	<input type="checkbox"/> \$250 USD	<input type="checkbox"/> \$500 USD	\$550 USD
SRS Emeritus Fellow	<input type="checkbox"/> \$450 USD	<input type="checkbox"/> \$250 USD	<input type="checkbox"/> \$500 USD	\$550 USD
Resident/Fellow/Medical Student	<input type="checkbox"/> \$450 USD	<input type="checkbox"/> \$250 USD	<input type="checkbox"/> \$500 USD	\$550 USD
Non-Member Physician	<input type="checkbox"/> \$1,100 USD	<input type="checkbox"/> \$250 USD	<input type="checkbox"/> \$500 USD	\$1,200 USD
Non-Member Non-Physician	<input type="checkbox"/> \$550 USD	<input type="checkbox"/> \$250 USD	<input type="checkbox"/> \$500 USD	\$650 USD
Industry Representative	<input type="checkbox"/> \$1,150 USD	<input type="checkbox"/> \$250 USD	<input type="checkbox"/> \$500 USD	\$1,250 USD
Delegates from Reduced Rate Countries**	<input type="checkbox"/> \$400 USD	<input type="checkbox"/> \$250 USD	<input type="checkbox"/> \$500 USD	\$500 USD

* The delegate base registration fee includes entrance to the general and concurrent sessions, special symposia, instructional course lectures, roundtable discussions, complications series, debates, lunch with the experts, the IMAST exhibit hall, breakfasts, breaks, lunches and the Welcome Reception on Wednesday, July 11. To register a guest please see guest form at www.srs.org/imast2018/registration.

**For information on countries that qualify for reduced rate registration, please visit the SRS website at www.srs.org/imast2018/registration.

Session Selection – (selection may be changed onsite)***	Date	
2A: Whitecloud Award Nominees and Top Scoring Abstracts	Thursday, July 12	<input type="checkbox"/>
2B: Abstract Session 3: Adult Deformity		<input type="checkbox"/>
2C: Abstract Session 4: Early Onset Scoliosis		<input type="checkbox"/>
3A: Debates: Controversies in Spine Surgery: Adult	Thursday, July 12	<input type="checkbox"/>
3B: Debates: New and Innovative Advances in Spine Care		<input type="checkbox"/>
4A: Case Presentations: Degenerative Conditions of the Lumbar Spine	Thursday, July 12	<input type="checkbox"/>
4B: Case Presentations: Pediatric Deformity		<input type="checkbox"/>
4C: Case Presentations: Cervical and Trauma		<input type="checkbox"/>
5A: Common Complications: Adult Degenerative and Deformity Surgery	Thursday, July 12	<input type="checkbox"/>
5B: My Worst Complications in Pediatric, Growing Spine and Neuromuscular Surgery		<input type="checkbox"/>
6A: Abstract Session 5: AIS	Friday, July 13	<input type="checkbox"/>
6B: Abstract Session 6: Kyphosis/Congenital/Neuromuscular Deformity		<input type="checkbox"/>
6C: Abstract Session 7: Trauma & Tumor		<input type="checkbox"/>
7A: Abstract Session 8: Lumbar Degenerative/Spondylolisthesis	Friday, July 13	<input type="checkbox"/>
7B: Abstract Session 9: Cervical Spine & Innovative Degenerative Topics		<input type="checkbox"/>
7C: Abstract Session 10: Complications/Infections		<input type="checkbox"/>
8A: ICL: Spinal Deformity: Denovo/Degenerative Adult Lumbar Scoliosis	Friday, July 13	<input type="checkbox"/>
8B: Debates: Cervical Considerations for Deformity & Degenerative Spine		<input type="checkbox"/>
8C: Case Presentations: The Growing Spine - Current State of the Art		<input type="checkbox"/>
9A: ICL: Value and Quality	Friday, July 13	<input type="checkbox"/>
9B: ICL: Coronal Plane Balance in Adult Deformity Surgery		<input type="checkbox"/>
10A: ICL: Common Challenges in Adult Spinal Deformity	Friday, July 13	<input type="checkbox"/>
10B: Case Presentations: Common Challenges in Pediatric Spine Surgery		<input type="checkbox"/>
10C: Case Presentations: The Latest in Spine Tumor Treatment		<input type="checkbox"/>
11A: ICL: AIS - Most Current Practices: How the Experts Decide	Saturday, July 14	<input type="checkbox"/>
11B: ICL: Adult Spinal Deformity - Expert Decision Making and Practices		<input type="checkbox"/>

***These educational programs are included in the base registration fee, but delegates are asked to indicate which sessions they plan to attend.

Social Event Add-Ons	Date	Additional Fee
Welcome Reception	Wednesday, July 11	\$0 USD <input type="checkbox"/>

Total Fees \$ _____ USD

Cancellation Policy:

All cancellations must be received in writing. Delegates may fax their cancellation to (414) 276-3349 or email it to meetings@srs.org. Delegates will receive a confirmation and refund within 14 days of receipt of their cancellation notice. SRS will grant a full refund, less a 10% processing fee, for cancellations received in writing on or before June 29, 2018. No refunds will be granted after June 29, 2018. SRS Tax ID #23-7181863

Waiver:

Submission of this registration form and payment of associated fee serves as agreement by the delegate to release the Scoliosis Research Society, the JW Marriott Los Angeles at L.A. LIVE and their respective agents, servants, employees, representatives, successors, and assigns, from any and against all claims, demands, causes of action, damages, costs, and expenses, including attorneys' fees, for injury to person or damage to property arising out of attendance at IMAST 2018. In addition, the delegate hereby grants permission to use his/her likeness in a photograph or other digital reproduction in any and all of its publications, including website entries, without payment or any other consideration, agreeing that these materials will become the property of SRS which has the right to edit, alter, copy, exhibit, publish or distribute this photo for purposes of publicizing its programs or for any other lawful purpose. Additionally, the delegate waives any right to royalties or other compensation arising or related to the use of the photograph.

- I do not wish to be included on the delegate list provided to exhibitors.
- I do not wish to be included on any published delegate list including programs, mobile apps, etc.

PAYMENT INFORMATION

Checks (US funds drawn on a US bank only) may be made payable and mailed to:

Scoliosis Research Society • 555 E. Wells Street, Suite 1100 • Milwaukee, WI 53202

Or provide credit card information with complete billing address:

- Check Enclosed Visa MasterCard American Express

Card Number	Security Code	
Expiration Date		
Name (As it appears on the card)		
Billing Address		
City	State	Zip/Postal Code
Country		
Signature (I agree to pay according to the card issuer agreement)		



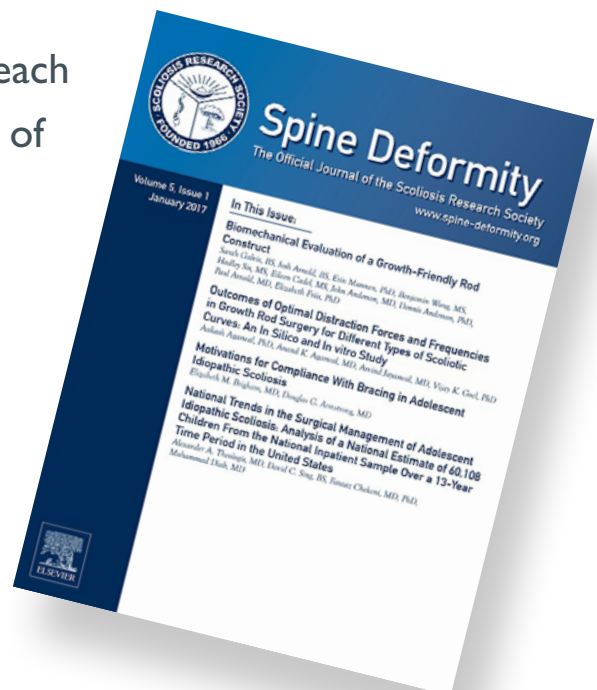
SPINE DEFORMITY

The Official Journal of the Scoliosis Research Society

www.spine-deformity.org

CLAIM CME CREDIT

The Scoliosis Research Society designates each Journal-Based CME activity for a maximum of 1.00 AMA PRA Category 1 Credit™.



SRS-0117-694

Spine Deformity



IMAST 2018

GUEST Registration Form



25th International Meeting On Advanced Spine Techniques **JULY 11-14, 2018** LOS ANGELES, CALIFORNIA, USA

Advance Registration Deadline: June 15, 2018 (Registrations will ONLY be accepted onsite after this date – no exceptions)

25th IMAST
July 11-14, 2018
LOS ANGELES, CA, USA

GUEST INFORMATION

ONLINE REGISTRATION AVAILABLE AT WWW.SRS.ORG/IMAST2018/REGISTRATION

SRS ID Number	First (Given) Name	Last (Family) Name	Suffix (Jr., III, etc)	Degree (MD, PhD, etc)
Email Address (All correspondence is done by email)			Institution	
Mailing Address				
City	State	Zip/Postal Code	Country (To appear on badge)	
Dietary Restrictions/Requirements				

I am a guest of the following REGISTERED delegate:

SRS ID Number	First (Given) Name	Last (Family) Name	City
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Base Registration Fees*	Advance Registration
*Guest attendance only includes the ability to register for social events and does not include session admittance.	On or Before June 15, 2018
Guest	<input type="checkbox"/> \$0 USD
*Guests registering using this form are able to register for the Welcome Reception on Wednesday, July 11 for \$20. Entrance to the scientific sessions is not included in guest registration fees. Only guests registered as Non-Member Non-Physicians will be allowed to participate in the scientific sessions and breaks. Please use the delegate registration form to register as a Non-Member Non-Physician. Sorry, no exceptions will be made.	

Social Event Add-Ons	Date	Additional Fee	
Welcome Reception	Wednesday, July 11	\$20 USD	<input type="checkbox"/>

Total Fees \$ _____ USD

PAYMENT INFORMATION

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Or provide credit card information with complete billing address:
 Check Enclosed Visa MasterCard American Express

Card Number	Security Code	
Expiration Date		
Name (As it appears on the card)		
Billing Address		
City	State	Zip/Postal Code
Country		
Signature (I agree to pay according to the card issuer agreement)		

Cancellation Policy:

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Waiver:

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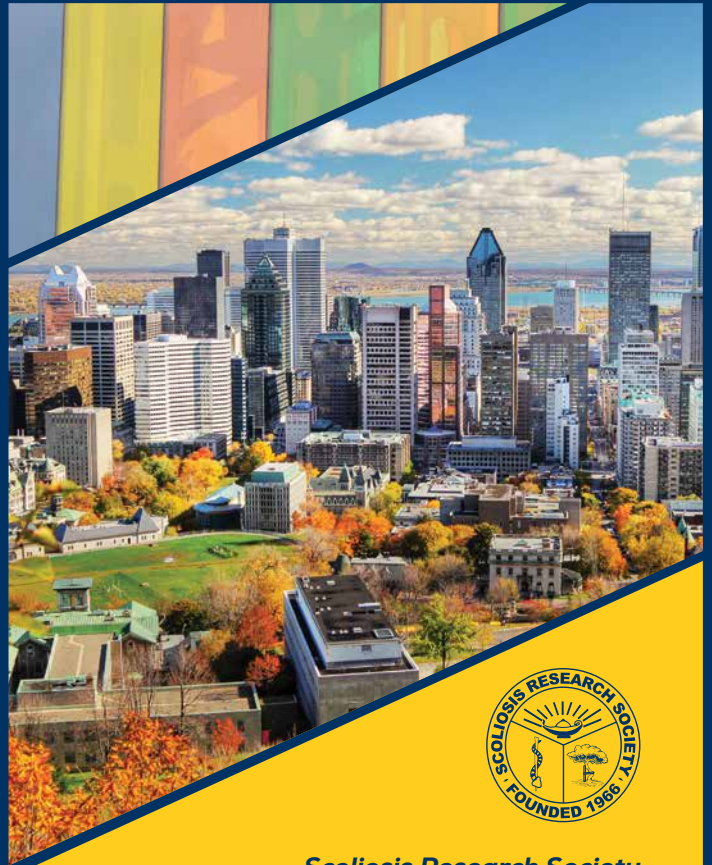
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SAVE THE DATE



Scoliosis Research Society presents



IMAST 2019 amsterdam THE NETHERLANDS

26th International Meeting on
Advanced Spine Techniques
July 17-20, 2019 • Amsterdam, The Netherlands

ABSTRACT SUBMISSION OPEN
November 1, 2018

ABSTRACT DEADLINE
February 1, 2019

www.srs.org



Scoliosis Research Society
54th Annual Meeting & Course
SEPTEMBER 18-21, 2019

Montréal, Canada

Abstract submission open – November 1, 2018
Abstract deadline – February 1, 2019

www.srs.org



IMAST 2018

GROUP Registration Form



25th International Meeting On Advanced Spine Techniques **JULY 11-14, 2018** LOS ANGELES, CALIFORNIA, USA

25th IMAST
July 11-14, 2018
LOS ANGELES, CA, USA

Advance Registration Deadline: June 1, 2018 (Registrations will ONLY be accepted onsite after this date – no exceptions)

COMPANY/BILL INFORMATION

ONLINE REGISTRATION AVAILABLE AT WWW.SRS.ORG/IMAST2018/REGISTRATION

Company Name _____

Company Representative _____

Email Address (Invoice and all correspondence will be sent to this email) _____

Mailing Address _____

City _____ State _____ Zip/Postal Code _____

Country _____

Base Registration Fees*	Advance Registration On or Before June 15, 2018
SRS Fellow – Physician	\$900 USD
SRS Fellow – Non-Physician	\$450 USD
SRS Emeritus Fellow	\$450 USD
Resident/Fellow/Medical Student	\$450 USD
Non-Member Physician	\$1,100 USD
Non-Member Non-Physician	\$550 USD
Industry Representative	\$1,150 USD
Delegates from Reduced Rate Countries**	\$400 USD

SRS will verify member types and apply discounts where delegates are eligible.

* The delegate base registration fee includes entrance to the general and concurrent sessions, special symposia, instructional course lectures, roundtable discussions, complications series, debates, lunch with the experts, the IMAST exhibit hall, breakfasts, breaks, lunches, and the Welcome Reception on Wednesday, July 11.

**For information on countries that qualify for reduced rate registration, please visit the SRS website at www.srs.org/imast2018/registration.

PAYMENT INFORMATION

Group Registration Policy:

All Group Registrants must be completed and submitted by June 1, 2018. Any Pre-Registration name changes can be made through June 15, 2018 at no charge. After June 15 each name change will be charged an administrative fee of \$100 per badge. Any delegate not included on the group registration form will be treated as an individual registration; delegates registered as individuals will not be added to group registration invoices.

All delegates must have their own email address listed under their name.

Corporate Supporters and/or Exhibitors with complimentary registration codes; please indicate who the code is being applied to by writing the code next to the delegate's name. If no codes are written in, complimentary registrations will be applied to delegate registrations in the order they are listed on the form.

Invoice:

An invoice will be provided to company/group representative. This invoice will contain all registration fees for all delegates listed; all invoices must be paid by June 15, 2018.

Any registration fees, registration name change fees or add-ons made after June 15 and/or onsite will be invoiced separately. Post meeting invoices will be sent out after IMAST.

Cancellation Policy:

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I do not wish to be included on the delegate list provided to exhibitors.

I do not wish to be included on any published delegate list including programs, mobile apps, etc.

DELEGATE INFORMATION

Delegate 1

First (Given) Name _____ Last (Family) Name _____

Suffix (Jr., III, etc) _____ Degree (MD, PhD, etc) _____

Delegate Email address — must be delegate's individual email _____

Institution _____

City _____ Country (to appear on badge) _____

Physician Non-Physician Industry Resident/Fellow/Medical Student

Delegate 2

First (Given) Name _____ Last (Family) Name _____

Suffix (Jr., III, etc) _____ Degree (MD, PhD, etc) _____

Delegate Email address — must be delegate's individual email _____

Institution _____

City _____ Country (to appear on badge) _____

Physician Non-Physician Industry Resident/Fellow/Medical Student

Delegate 3

First (Given) Name _____ Last (Family) Name _____

Suffix (Jr., III, etc) _____ Degree (MD, PhD, etc) _____

Delegate Email address — must be delegate's individual email _____

Institution _____

City _____ Country (to appear on badge) _____

Physician Non-Physician Industry Resident/Fellow/Medical Student

Delegate 4

First (Given) Name _____ Last (Family) Name _____

Suffix (Jr., III, etc) _____ Degree (MD, PhD, etc) _____

Delegate Email address — must be delegate's individual email _____

Institution _____

City _____ Country (to appear on badge) _____

Physician Non-Physician Industry Resident/Fellow/Medical Student

Delegate 5

First (Given) Name _____ Last (Family) Name _____

Suffix (Jr., III, etc) _____ Degree (MD, PhD, etc) _____

Delegate Email address — must be delegate's individual email _____


Institution _____

City _____ Country (to appear on badge) _____

Physician Non-Physician Industry Resident/Fellow/Medical Student

*Please use additional forms to register more than 5 delegates.

**Delegates personal email addresses are required. The company representative will be copied on all correspondence.



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BONY INGROWTH*

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*Based on preclinical data. May not represent clinical results.

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