

# 32<sup>ND</sup> IMAST

GLASGOW, SCOTLAND

*Powered by the Scoliosis Research Society*

32<sup>ND</sup> International Meeting on Advanced Spine Techniques

# PRELIMINARY PROGRAM



APRIL 2-5, 2025

[WWW.SRS.ORG/IMAST2025](http://WWW.SRS.ORG/IMAST2025)



# 25000

**Tether cases completed.**  
*2500 lives changed.*

*The Flexibility To Choose*



[myscoliosis.com](https://myscoliosis.com)



**HIGHRIDGE**

**Humanitarian Device.** Authorized by Federal law for use in the treatment of skeletally immature patients that require surgical treatment to obtain and maintain correction of progressive idiopathic scoliosis, with a major Cobb angle of 30 to 65 degrees whose osseous structure is dimensionally adequate to accommodate screw fixation, as determined by radiographic imaging. Patients should have failed bracing and/or be intolerant to brace wear. The effectiveness of this device for this use has not been demonstrated. Post-operative risks include overcorrection of the instrumented curve, cord breakage, and bone screw migration. Indications, contraindications, warnings, precautions and the directions for use can be found on [myscoliosis.com](https://myscoliosis.com). Individuals depicted are not actual patients. Results are not necessarily typical, indicative, or representative of all recipient patients. Results will vary due to health, weight, activity and other variables. Not all patients are candidates for this product and/or procedure. Only a medical professional can determine the treatment appropriate for your specific condition. Appropriate post-operative activities and restrictions will differ from patient to patient. Talk to your surgeon about whether vertebral body tethering surgery is right for you and the risks of the procedure.

Unless otherwise indicated, as referenced herein, all trademarks and intellectual property rights are the property of Highridge Medical, LLC or an affiliate; and all products are manufactured by one or more of the spinal subsidiaries of Highridge Medical, LLC and marketed and distributed by its authorized marketing partners. Please refer to the Instructions for Use, package labeling, and applicable Surgical Technique Guide. Product clearance and availability may be limited to certain countries/regions. This material does not comprise medical advice or recommendations. Distribution to any other recipient is prohibited. This material may not be copied or reprinted without the express written consent of Highridge Medical. HM0368 REV A 11/24 ©2024 Highridge Medical, LLC.

# TABLE OF CONTENTS

Chairs' Message..... 4  
 About SRS..... 5  
 General Meeting Information..... 6  
 Meeting Overview ..... 8  
 Registration Information..... 9  
 Housing Information ..... 10  
 Meeting Agenda ..... 11  
 2025 SRS Courses ..... 18  
 Exhibitors ..... 19  
 Hands-On-Workshops ..... 20  
 Corporate Supporters ..... 21

## DATES TO REMEMBER

- Early Housing Deadline**  
February 17, 2025
- Early Registration Rate Deadline**  
February 27, 2025
- Cancellation Refund Deadline**  
February 27, 2025
- Housing Portal Closes**  
March 17, 2025
- Pre-registration Closes**  
March 20, 2025
- On-Site Registration Opens**  
April 2, 2025

## FUTURE EDUCATIONAL EVENTS

- Annual Meeting**
  - 60<sup>th</sup> Annual Meeting**  
September 16-20, 2025 | Charlotte, North Carolina, USA
  - 61<sup>st</sup> Annual Meeting**  
October 7-10, 2026 | Sydney, Australia
  - 62<sup>nd</sup> Annual Meeting**  
September 14-18, 2027 | New Orleans, Louisiana, USA
- International Meeting on Advanced Spine Techniques**
  - 33<sup>rd</sup> IMAST**  
April 15-17, 2026 | Toronto, ON, Canada
  - 34<sup>th</sup> IMAST**  
April 7-9, 2027 | Copenhagen, Denmark



# CHAIRS' MESSAGE

Dear Delegates and Attendees,

Welcome to the misty lands of Glasgow, Scotland and the 32<sup>nd</sup> International Meeting for Advanced Spine Techniques (IMAST), powered by the Scoliosis Research Society (SRS).

Glasgow, in addition to being one of the oldest cities in Scotland, is also home to a BioCorridor focused on research, development, the production of bioinformatics, and medical technology. Hosting THE leading innovation meeting where professionals treating complex spinal conditions meet to share, discuss and demonstrate groundbreaking research is the perfect pairing.

The theme of this year's meeting is "Changing Practice with New Innovation" and includes six instructional course lectures including one EUROSPINE session and one British Association for Spine Surgeons (BASS) session.

As always, one of the highlights of this meeting is Cases and Cocktails, which in honor of the distillers of the Highlands has been renamed Spine and Scotch, Cases on the Rocks. This year's topics will cover Complication Avoidance in Adolescent Idiopathic Scoliosis, New Technology for Adult Spine Deformity, and Innovation in Minimally Invasive Surgery.

We are also hosting – for the second time in IMAST history – a keynote speaker. Mr. Derek Cawley, a Consultant Spine Surgeon from Dublin, Ireland is presenting "Sustainability in Hospitals and The Carbon Footprint of Spine Surgery."

This year's "don't miss" session is the SRS Adult Deformity Task Force session, The Latest and Greatest: Making Innovation Work for You. This session features expert surgeons discussing the latest innovations they are using prior to and during surgery to improve their outcomes and offers insights on how you can transform and improve your practice.

Additionally, we reviewed 831 abstracts and have selected 98 with a new review category that focuses on AI & Machine Learning. And, in addition to the Thomas E. Whitecloud Award for best paper we will again have the award for the most innovative IMAST presentation.

We offer a special thank you to our industry partners for their continued support. Plan your schedule accordingly so that you can see all of the latest innovations in the exhibit hall and during the Hands-on Workshops. More information on these can be found beginning on page 19-20.

We cannot wait for you to experience this exceptional IMAST. We will see you in Glasgow!



Kristen E. Jones MD, FAANS  
 IMAST co-chair



Meric Enercan, M.D.  
 IMAST co-chair



## 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 37 orthopaedic surgeons to an international organization of more than 1,600 health care professionals.

## DEI STATEMENT

The SRS recognizes the benefit of bringing the knowledge, perspectives, experiences, and insights of a diverse membership to our society. We are committed to including outstanding members from the broad spectrum of human ethnicities, genders, sexual orientations, national origins, geographic backgrounds, abilities, disabilities, religious beliefs, and ages. We will create a culture that is equitable and inclusive, where everyone has a voice and differences are celebrated. By building a membership and leadership who better reflect the diverse communities we study and care for, we foster better and more equitable care for patients with spinal disorders.



## 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. Visit <https://www.srs.org/Membership/Become-a-Member> for more information on membership types, requirement details, and to apply online.

## 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 Courses, 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](http://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.

## SOCIETY OFFICE STAFF

- Ashtin Neuschaefer, CAE - *Executive Director*
- Rachel Davis - *Administrative Manager*
- Grace Donlin - *Meetings Manager*
- Erica Ems - *Membership & Development Manager*
- Sammie Farrall - *Digital Communications Manager*
- Laura Pizur - *Research Program Manager*
- Kate Reed - *Website Manager*
- Rebecca Scardino - *Education Manager*
- Michele Sewart, PMP - *Senior Communications Manager*
- Leah Skogman, CMP - *Senior Meetings Manager*

## SOCIAL MEDIA

Join the conversation surrounding IMAST by including **#SRSIMAST25** in your social media posts.

- @srs\_org
- @ScoliosisResearchSociety
- @srs\_org
- @Scoliosis Research Society
- @srs\_org

## SCOLIOSIS RESEARCH SOCIETY

555 East Wells Street, Suite 1100  
Milwaukee, WI 53202  
Phone: 414-289-9107  
Fax: 414-276-3349  
[www.srs.org](http://www.srs.org)

# GENERAL MEETING INFORMATION

## MEETING DESCRIPTION

The 32<sup>nd</sup> IMAST will offer an in-person meeting experience where leading spine surgeons, innovative researchers and the most advanced spine technologies come together in an international forum to demonstrate and discuss recent advances in spine surgery.

## IMAST MISSION & VISION STATEMENT

### Mission

To freely present, discuss and debate emerging technologies used for the treatment and care of patients with complex spine conditions.

### Vision

To be the premier global forum where professionals treating complex spinal conditions meet to share, discuss and demonstrate groundbreaking research with a focus on innovation.

## LEARNING OBJECTIVES

Upon completion of IMAST, you should be able to:

1. Assess indicators for integrating innovative technologies, such as artificial intelligence, machine learning, predictive analytics, and wearable devices, into current operative spine care practices, and evaluate the limitations of current technology.
2. Discuss current best-practices for complication avoidance by utilizing innovative technology in adult spinal deformity surgery.
3. Analyze the indications and limitations for minimally invasive and motion-preservation surgical options, including endoscopic and MIS fusion techniques, in Adult Spinal Deformity and Adolescent Idiopathic Scoliosis.
4. Improve the knowledge of operative and non-operative standard of care for early-onset scoliosis and congenital spine pathologies.

## TARGET AUDIENCE

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

## LANGUAGE

Presentations and course materials will be presented and provided in English.

## ONLINE SPEAKER READY ROOM

The online Speaker Ready Room will open January 31, 2025, and will close on March 21, 2025, at 17:00, EDT (US).

## ACCME ACCREDITATION STATEMENT

The Scoliosis Research Society is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

## CREDIT DESIGNATION

The Scoliosis Research Society designates this live activity, 32<sup>nd</sup> IMAST, 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. SRS will also be applying for EACCME accreditation for this meeting. More information to follow.

## CME CERTIFICATES

CME Certificates will be available to pre-registered attendees upon the opening of the meeting. Delegates who register on-site may access their certificates after 30 days.

# GENERAL MEETING INFORMATION

## SRS MEMBERSHIP

Involvement in the 32<sup>nd</sup> IMAST counts towards SRS membership meeting requirements. Prospective members and new candidate members are encouraged to view the [SRS membership section](#) to learn more about membership with SRS, upcoming meetings, and more.

## FDA STATEMENT (UNITED STATES)

Some drugs and medical devices demonstrated during this virtual meeting 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 DISCLAIMERS

The materials presented during this meeting 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.

## DISCLOSURE OF RELEVANT FINANCIAL RELATIONSHIPS

It is the policy of SRS to ensure balance, independence, objectivity, and scientific rigor in all educational activities. In accordance with this policy, SRS identifies all financial relationships held with an ineligible company\* by individuals in a position to influence or control the content of a CME activity. Relevant financial relationships are mitigated by SRS to ensure that all scientific research referred to, reported, or used in a CME activity conforms to the generally accepted standards of experimental design, data collection, and analysis. Complete faculty disclosures can be found in the final program.

*\*An ineligible company is one whose primary business is producing, marketing, selling, re-selling, or distributing healthcare products used by or on patients.*

# MEETING OVERVIEW

subject to change

	Wednesday, April 2	Thursday, April 3	Friday, April 4
Morning		07:00 - 18:30 Registration Open 08:00 - 09:00 Hands-On Workshops* <i>with breakfast</i> 09:00 - 09:25 Exhibit Viewing & Refreshment Break 09:25-11:45 Abstract Session 1: Whitecloud Clinical Award Nominees 11:45 - 12:00 Exhibit Viewing & Lunch Pick-Up	07:00 - 16:30 Registration Open 07:30 - 08:30 Concurrent Sessions (Abstract Sessions 5A - 5D) 08:30 - 09:00 Exhibit Viewing & Refreshment Break 09:00 - 11:00 Abstract Sessions 6 11:00 - 11:30 Exhibit Viewing 11:30 - 12:30 Hands-On Workshops* <i>Lunch Pick-Up (11:00-11:30)</i>
Afternoon	12:30 - 18:30 Registration Open	12:00 - 13:00 Hands-On Workshops* 13:00 - 13:30 Exhibit Viewing 13:30 - 15:00 Concurrent Sessions (Sessions 2A & 2B) 15:00 - 15:30 Exhibit Viewing & Refreshment Break 15:30 - 17:00 Concurrent Sessions (Sessions 3A & 3B) 17:00 - 17:30 Exhibit Viewing 17:30 - 18:30 Education Session 4	12:30 - 12:45 Exhibit Viewing 12:45 - 14:15 Concurrent Sessions (Sessions 7A & 7B) 14:15 - 14:30 Exhibit Viewing* 14:30 - 15 :30 Hands-On Workshops* <i>with snacks &amp; coffee</i> 15:30 - 16:00 Exhibit Viewing & Refreshment Break 16:00 - 17:30 Education Session 8*
Evening	16:00 - 18:00 Spine & Scotch: Cases on the Rocks - Discussion Sessions 18:00 - 20:00 Welcome Reception & Exhibit Viewing*		17:30 - 19:00 Innovation Celebration*

\*Denotes non-CME session



# REGISTRATION INFORMATION

## KEY DATES

<b>February 27, 2025</b>	Early Registration Rate Deadline
<b>February 27, 2025</b>	Cancellation Refund Deadline
<b>March 20, 2025</b>	Pre-registration Closes
<b>April 2-5, 2025</b>	32 <sup>nd</sup> IMAST in Glasgow, Scotland

For detailed registration information, please visit the [IMAST website](#).

## REGISTRATION PROCEDURE

SRS encourages [online](#) registration. If you forgot your SRS username or password, click [here](#) to reset your username or password.

PDF registration form is available, download the form [here](#). Please complete and return to: [meetings@srs.org](mailto:meetings@srs.org).

## REGISTRATON PRICING

Registration Class	Early Registration On or before February 27, 2025	Late / Onsite Registration On or after February 28, 2025
SRS Member – Physician	\$900	\$1,080
SRS Member – Non-Physician	\$450	\$540
SRS Emeritus Member	\$450	\$540
EUROSPINE Member	\$900	\$1,080
Host Country Registration (England, Ireland, Scotland and Wales)	\$450	\$540
Non-Member Physician	\$1,100	\$1,320
Non-Member Non-Physician	\$550	\$660
Resident / Fellow / Medical Student	\$450	\$540
Delegate from Reduced Rate Country*	\$400	\$480
Industry Representative	\$1,150	\$1,380

\*Click [here](#) for countries that qualify for reduced rate registration.

\*\*First time attendee? Email [meetings@srs.org](mailto:meetings@srs.org) to register for a reduced rate.

### What is Included?

Registration policies are subject to change.

- Entrance to all general and concurrent sessions
- Admission to the industry hands-on workshops
- Meeting materials
- Refreshment breaks and lunch
- Welcome Reception
- Certificate of attendance and CME credits
- Access to meet face-to-face with exhibitors
- Meeting App with audience response capabilities for an interactive meeting experience
- Access to session recordings following the meeting.

## CANCELLATION POLICY

Full refunds, less a 10% processing fee, will be granted for the cancellation of meeting registrations until February 27, 2025. **No refunds will be granted after February 27, 2025.** Cancellation and refund requests should be sent in writing via email to [meetings@srs.org](mailto:meetings@srs.org) or faxed to 414-276-3349. Delegates will receive a confirmation email and refund within 14 days of receipt of their cancellation notice.

## QUESTIONS

For registration questions, please contact the SRS Meetings team at [meetings@srs.org](mailto:meetings@srs.org).

# HOUSING INFORMATION

Glasgow offers a number and variety of hotels located on and near the Scottish Event Campus (SEC), which will allow delegates to select a hotel that best suits their preference and price point.

Accommodations will be sold on a first come, first served basis and the published rates will be available until 17 February 2025. [BOOK NOW](#) to avoid disappointment and secure your discounted rate!

## KEY DATES

<b>Early Housing Deadline*</b>	February 17, 2025
<b>Housing Portal Closes</b>	March 17, 2025

*\*Published rates will be available until 17 February 2025, after which time discounted rates are not guaranteed*

## BOOKING ACCOMMODATIONS

**Glasgow Convention Bureau** is the official accommodation provider for the conference and has negotiated specially discounted rates with a wide range of hotels.

- Flexible bookings - booking now and pay at the hotel
- Cancel an individual booking up until 48-hours prior without penalty
- Range of hotels for different budgets
- Multiple hotels within walking distance of SEC and accessible by public transport

When your room is reserved, you will receive an immediate confirmation by email. Breakfast is included unless otherwise stated.

**Please note: All bookings are subject to each individual hotel's availability, policies, and procedures. SRS is unable to make or change existing reservations. Please direct all inquiries and requests to [accommodation@glasgowconventionbureau.com](mailto:accommodation@glasgowconventionbureau.com).**

## PAYMENT AND GUARANTEE

Please note the booking website does not take payment, and your credit card will be held as a guarantee only.

Your credit card is held as a guarantee only. Payment should be made directly on arrival/departure at the hotel. The card will only be charged in the event of non-arrival or late cancellation, please check the terms and conditions for each property on the "Guest Information" page of the reservation process.

If you require a pro-forma invoice please reserve and guarantee your room by credit card then email [accommodation@glasgowconventionbureau.com](mailto:accommodation@glasgowconventionbureau.com) and the Glasgow Convention Bureau can arrange for an invoice or pre-payment link to be sent to you.

## GROUP BOOKINGS (10+ ROOMS)

For group bookings of 10 rooms or more or other accommodation enquiries please email [accommodation@glasgowconventionbureau.com](mailto:accommodation@glasgowconventionbureau.com).

# MEETING AGENDA

Topics and faculty are preliminary and subject to change

## WEDNESDAY, APRIL 2, 2025

### 16:00 - 18:00

#### Spine & Scotch: Cases on the Rocks 1: Complication Avoidance in AIS

Moderator: Baron Zarate Kalfopulos, MD

Table Moderators: Amit Jain, MD, MBA; Luiz Müller Ávila, MD; Luis Saavedra, MD; Marinus de Kluever, MD, PhD; Lawrence G. Lenke, MD & Per D. Trobisch, MD

#### Spine & Scotch: Cases on the Rocks 2: New Technology for Adult Spinal Deformity

Moderator: Gregory M. Mundis Jr., MD

Table Moderators: Munish C. Gupta, MD, MBA; Serena S. Hu, MD; Praveen V. Mummaneni, MD; Eric O. Klineberg, MD; Brian J. Neuman, MD & Han Jo Kim, MD

#### Spine & Scotch: Cases on the Rocks 3: Innovation in MIS

Moderator: Robert K. Eastlack, MD

Table Moderators: Michael Y. Wang, MD, FAANS, Roland Kent, MD, Juan S. Uribe, MD, Paul Park, MD, David O. Okonkwo, MD, PhD & Jason Bernard, MD, FRCSOrth, MBChB

### 18:00 - 20:00

#### Welcome Reception\*

The 32<sup>nd</sup> IMAST will officially begin with the Welcome Reception, a hosted reception featuring hors d'oeuvres, cocktails and reunions with colleagues and friends and exhibitor viewing.

The Welcome Reception will take place in the Exhibit area (Hall 2) at the Scottish Event Campus (SEC).

Available at no charge to in-person meeting delegates, \$50 USD for guests of registered delegates. For more information, please visit the [IMAST registration page](#).

\*denotes Non-CME session/event

# MEETING AGENDA

THURSDAY, APRIL 3, 2025

08:00 - 09:00

## Hands-On Workshops\*

Each workshop will be programmed by a single-supporting company and will feature presentations on topics and technologies selected by the company. Please note: CME credits are not available for Hands-On Workshops.

09:00 - 09:25

## Refreshment Break & Exhibit Viewing\*

09:25 - 11:45

## Abstract Session 1 - Whitecloud Award Nominated Papers

Moderators: TBA

09:25 - 09:30 Welcome from Glasgow Lord Provost  
*The Rt Hon The Lord Provost of Glasgow*

09:30 - 11:35 Session 1 Abstracts

11:35 - 11:40 Annual Meeting 2025 Preview  
*A. Noelle Larson, MD*

11:40 - 11:45 IMAST 2026 Preview  
*Amit Jain, MD, MBA & Caglar Yilgor, MD*

11:45 - 12:00

## Lunch Pick-Up

12:00 - 13:00

## Hands-On Workshops\*

Each workshop will be programmed by a single-supporting company and will feature presentations on topics and technologies selected by the company. Please note: CME credits are not available for Hands-On Workshops.

13:00 - 13:30

## Break & Exhibit Viewing\*

13:30 - 15:00

## Abstract Session 2A - Adolescent Idiopathic Scoliosis

Moderators: TBA

13:30 - 15:00

## Session 2B - Spinal Endoscopy: From Decompression to Fusion

*This session is hosted by EUROSPINE*

Moderators: *Ahmet Alanay, MD & Christoph Siepe, MD*

13:30 - 13:35 Introduction and Welcome  
*Ahmet Alanay, MD*

13:35 - 13:50 Full Endoscopic Spine Surgery of the Lumbar Spine: An Overview  
*Christoph Siepe, MD*

13:50 - 13:59 Clinical Outcomes of Endoscopic Surgery: An Overview  
*Shahnawaz Haleem, MSc(Tr&Orth), MRCSEd, MRCS, I ESD, EASD, FRCS(Tr&Orth)*

13:59 - 14:09 Q&A

\*denotes Non-CME session/event



**Debate: Endoscopic Spine Surgery vs. Traditional Open Surgery**

- 14:09 - 14:18 Pro Endoscopic Surgery  
*Christoph Siepe, MD*
- 14:18 - 14:27 Pro Traditional Surgery  
*Marco Teli, MD*
- 14:27 - 14:37 Q&A
- 14:37 - 14:46 A Comparison of Uniportal vs. Biportal Techniques  
*Javier Quillo-Olvera, MD*
- 14:46 - 14:55 Full Endoscopic Lumbar Fusion and Beyond  
*Ali Guven Yorkoglu, MD*
- 14:55 - 15:00 Q&A
- 15:00 Wrap up & Closing Remarks  
*Christoph Siepe, MD*

15:00 – 15:30

**Break & Exhibit Viewing\***

15:30 - 17:00

**Abstract Session 3A - Innovation, AI and Machine Learning**

Moderators: TBA

15:30 - 17:00

**Session 3B - Innovation to Elevate Clinical Practice: Monitoring New Implants, Registries and Outcomes Beyond PROMs.**

Updates from The British Association of Spine Surgeons and The British Scoliosis Society  
Moderators: Edward Bayley, MRCSed & Girish N. Swamy, FRCS

- 15:30 - 15:33 Introduction
- 15:33 - 15:48 Incorporating Modern Technology to Assess Clinical Outcomes and Beyond PROMS and PREMS  
*Benjamin Davies, MBChB(Hons), BSc (Hons), MRCS*
- 15:48 - 15:54 Discussion
- 15:54 - 16:09 ODEP and Beyond Compliance: Monitoring New Implants  
*Sashin Ahuja, FRCS*
- 16:09 - 16:15 Discussion
- 16:15 - 16:30 How Should National Spine Registries Evolve?  
*Ashley Cole, MD*
- 16:30 - 16:36 Discussion
- 16:36 - 16:51 Emerging Technologies and Innovations in Non-surgical Management of Spinal Metastasis  
*Tom Marshall, MD*
- 16:51 - 17:00 Discussion

17:00 – 17:30

**Break & Exhibit Viewing\***

17:30 - 18:30

**Session 4 - Changing Practice with New Innovation**

Moderators: Charles H. Crawford III, MD & Per D. Trobisch, MD

- 17:30 - 17:36 How I Started Using Navigation for AIS and Why I Went Back to Free-Hand  
*David L. Skaggs, MD, MMM*

\*denotes Non-CME session/event

## THURSDAY, APRIL 3, 2025

- 17:36 - 17:42 **VBT: A Good Tool with a Learning Curve**  
*Per D. Trobisch, MD*
- 17:42 - 17:48 **The Rise and Fall of MGCR In My Practice**  
*Jwalant S. Mehta, FRCS(Ortho)*
- 17:48 - 18:00 **Discussion**
- 18:00 - 18:06 **Wearable Sensor Technology**  
*Charles H. Crawford III, MD*
- 18:06 - 18:12 **Predictive Analytics and AI in the Management of Sagittal Spinal Deformity**  
*Ferran Pellisé, MD, PhD*
- 18:12 - 18:18 **Understanding Coronal Malalignment: Insights and Advances through Innovation**  
*Ibrahim Obeid, MD*
- 18:18 - 18:30 **Discussion**

\*denotes Non-CME session/event

## FRIDAY, APRIL 4, 2025

07:30 - 8:45

### Abstract Session 5A - Pediatric Deformity

Moderators: TBA

### Abstract Session 5B - EOS, Neuromuscular, Basic Science

Moderators: TBA

### Abstract Session 5C - Cervical and Complex

Moderators: TBA

### Abstract Session 5D - Degenerative and Kyphosis

Moderators: TBA

08:45 - 09:00

### Refreshment Break & Exhibit Viewing\*

09:00 - 11:00

### Abstract Session 6 - Adult Spinal Deformity & Keynote Speaker

Moderators: TBA

09:00 - 10:35 Session 6 Abstracts

10:35 - 10:40 Introduction of the Keynote  
*Laurel C. Blakemore, MD*

10:40 - 11:00 Keynote Address  
*Derek T. Cawley, MMedSc, MCh, FRCS Orth*

11:00 - 11:30

### Lunch Pick-Up & Exhibit Viewing\*

11:30 - 12:30

### Hands-On Workshops\*

Each workshop will be programmed by a single-supporting company and will feature presentations on topics and technologies selected by the company. Please note: CME credits are not available for Hands-On Workshops.

12:30 - 12:45

### Break and Exhibit Viewing\*

12:45 - 14:15

### Session 7A - Hot Topics in Minimally Invasive Deformity

Moderators: *Neel Anand, MD, Mch Ortho & Amit Jain, MD, MBA*

#### Panel 1

12:45 - 12:47 Case Presentation  
*Neel Anand, MD, Mch Ortho*

12:47 - 12:55 Why Mess with Classic? Open ALIF Posterior Fusion Always Works  
*Zeeshan M. Sardar, MD*

12:55 - 13:03 There is Nothing I can't Fix with CMIS Lateral Posterior Fusion  
*Corey T. Walker, MD*

13:03 - 13:11 See the Light: Prone Lateral is the Way to Go  
*Juan S. Uribe, MD*

13:11 - 13:17 Rebuttal  
*Zeeshan M. Sardar, MD; Corey T. Walker, MD & Juan S. Uribe, MD*

13:17 - 13:30 Discussion

\*denotes Non-CME session/event

**Panel 2**

- 13:30 - 13:32 Case Presentation  
*Amit Jain, MD, MBA*
- 13:32 - 13:40 Computer Navigation is a Must for the Modern Surgeon  
*Brett Roccos, MD*
- 13:40 - 13:48 Augmented Reality is Navigation Done Better!  
*Safdar N. Khan, MD*
- 13:48 - 13:56 The Navigation Assisted Robot is the Best: Why Would You Look Back?  
*Richard A. Hynes, MD*
- 13:56 - 14:02 Rebuttal  
*Brett Roccos, MD; Safdar N. Khan, MD & Richard A. Hynes, MD*
- 14:02 - 14:15 Discussion

**12:45 - 14:15**

**Session 7B - Challenges in Early Onset and Congenital Scoliosis: Best Practices and Modern Methods**

*Moderators: Han Jo Kim, MD & Caglar Yilgor, MD*

- 12:45 - 12:50 Compression-, Distraction- or Guidance-based Constructs: What Does the Future Hold  
*Michelle C. Welborn, MD*
- 12:50 - 12:55 New Technologies in EOS Management and Outcomes  
*Tom PC Schlosser, MD, PhD*
- 12:55 - 13:00 Contemporary Results of Casting and Bracing for EOS Deformities  
*Grant D. Hogue, MD*
- 13:00 - 13:15 Discussion  
*Han Jo Kim, MD*
- 13:15 - 13:20 MRI-based Radiation-Free Navigation Options in Pediatrics  
*A. Noelle Larson, MD*
- 13:20 - 13:25 Non-MRI-based Radiation-Free Navigation Options in Pediatrics  
*Stefan Parent, MD, PhD*
- 13:25 - 13:30 Robotics Applications in EOS Deformities  
*Burt Yaszay, MD*
- 13:30 - 13:45 Discussion  
*Caglar Yilgor, MD*
- 13:45 - 13:50 Timing and Modern Surgical Indications for Congenital Scoliosis Management  
*Amer F. Samdani, MD*
- 13:50 - 13:55 Minimally Invasive Spine Surgery for Cervicothoracic Congenital Scoliosis: With or Without Coronal Imbalance  
*Jianguo Zhang, MD*
- 13:55 - 14:00 Evolution and Future of the Treatment of Syrinx/Chiari/Tethered Cord in EOS  
*Christopher M. Bonfield, MD*
- 14:00 - 14:15 Discussion  
*Han Jo Kim, MD*

**14:15 - 14:30**

**Break & Exhibit Viewing\***

\*denotes Non-CME session/event



**FRIDAY, APRIL 4, 2025**

14:30 – 15:30

**Hands-On Workshops\***

Each workshop will be programmed by a single-supporting company and will feature presentations on topics and technologies selected by the company. Please note: CME credits are not available for Hands-On Workshops.

15:30 – 16:00

**Refreshment Break & Exhibit Viewing\***

16:00 - 17:30

**Session 8 - The Latest and Greatest: Making Innovation Work for You\***

Moderators: Meric Enercan, MD & Kristen E. Jones, MD, FAANS

16:00 - 16:10 **Presentation of the Whitecloud and Innovation Award Winning Papers**  
 Meric Enercan, MD & Kristen E. Jones, MD, FAANS

16:10 - 16:15 **Case Presentation**  
 Emmanuelle Ferrero, MD, PhD

16:15 - 16:30 **Use of AI in Preoperative Risk Modification**  
 Christopher P. Ames, MD

16:30 - 16:45 **Patient Specific Surgical Planning**  
 Camilo A. Molina, MD

16:45 - 17:00 **What AI Cannot Do For You**  
 Ronald A. Lehman Jr., MD

17:00 - 17:15 **Incorporating Innovation into My Practice Over the Years**  
 Lawrence G. Lenke, MD

17:15 - 17:25 **Case Discussion**

17:30 – 19:00

**Innovation Celebration\***

Open to all registered delegates and registered guests. Tickets are \$25 USD for registered delegates and \$50 USD for guests of registered delegates and must be purchased in advance. Please visit the [IMAST Registration page](#) for more details.

The banner features the SRS logo (Scoliosis Research Society) on the left. The main text reads "BECOME A MEMBER" in large, bold letters. Below this, a green callout box says "APPLICATION DEADLINE: JUNE 30 & DECEMBER 1 OF EACH YEAR". On the right, a circular inset image shows a man and a woman in business attire talking at a table. A QR code with the SRS logo is positioned below the image. At the bottom right, a white button says "LEARN MORE & APPLY NOW" with the URL "www.srs.org/membership" below it.

\*denotes Non-CME session/event

# 2025 SRS COURSES

## SPINE DEFORMITY SOLUTIONS: A HANDS-ON COURSE

The SRS hands-on courses provide an opportunity for participants to expand their knowledge and improve their skills through training and discussions with leading spinal deformity surgeons from throughout the world. Registration will be limited to ensure access to faculty, small-group interaction for better learning, and opportunities for hands-on work. A minimum of eight hours of the course will be devoted to lab work, with a strong faculty-to-learner ratio. Topics and lab sessions will cover all areas of the spine and a variety of conditions and techniques. The intimate learning theme will begin on night one with small group "Fireside Chats" with faculty and will proceed to presentations, video demonstrations and lab rotations on day 2 and 3.



**SRS** EURO SPINE  
 in collaboration with

**SPINE DEFORMITY SOLUTIONS:  
 A HANDS-ON COURSE**  
 FROM THE SCOLIOSIS RESEARCH SOCIETY

**JUNE 18-20, 2025**  
 Nijmegen, the Netherlands

Registration Opens January 14, 2025

[www.srs.org/sds](http://www.srs.org/sds)



**SRS** EURO SPINE  
 in collaboration with

**SPINE DEFORMITY SOLUTIONS:  
 A HANDS-ON COURSE**  
 FROM THE SCOLIOSIS RESEARCH SOCIETY

**OCTOBER 10-12, 2025**  
 Hong Kong

Registration Opens June 3, 2025

[www.srs.org/sds](http://www.srs.org/sds)

**Scoliosis Research Society**

# EXHIBITORS

*\*as of November 30, 2024*

SRS encourages IMAST delegates to visit the 2025 IMAST Exhibitors during exhibit viewing times and between sessions.

## EXHIBITOR VIEWING HOURS\*

*\*Exhibiting hours and demonstrating companies are subject to change*

Wednesday, April 2      18:00 - 20:00  
 Thursday, April 3      09:00 - 17:30  
 Friday, April 4          08:30 - 16:00

## EXHIBITORS AS OF NOVEMBER 30, 2024

### ATEC Spine

1950 Camino Vida Roble  
 Carlsbad, CA 92008 USA  
[www.atecspine.com](http://www.atecspine.com)

### B. Braun

Am Aesculap Platz  
 Tuttlingen, Germany 78532  
[www.bbraun.com](http://www.bbraun.com)

### Carlsmed

1800 Aston Ave. Suite 100  
 Carlsbad, CA 92008 USA  
[www.carlsmed.com](http://www.carlsmed.com)

### Globus Medical, Inc.

2560 General Armistead  
 Audubon, PA 19403 USA  
[www.globusmedical.com](http://www.globusmedical.com)

### Highridge Medical

10225 Westmoor Drive  
 Westminster, CO 80021 USA  
[www.highridgemedical.com](http://www.highridgemedical.com)

### Isto Biologics

45 South Street  
 Hopkinton, MA 01748 USA  
[www.istobiologics.com](http://www.istobiologics.com)

### Johnson & Johnson MedTech

325 Paramount Drive  
 Raynham, MA 02767 USA  
<https://www.jnjmedtech.com/en-US/companies/depuysynthes>

### Medtronic

1800 Pyramid Place  
 Memphis, TN 38138 USA  
[www.medtronic.com](http://www.medtronic.com)

### RIWOspine

Pforzheimer Str. 32  
 Knittlingen, Germany 75438  
[www.riwospine.com](http://www.riwospine.com)

### SeaSpine (an Orthofix Company)

5770 Armada Drive  
 Carlsbad, CA 92008 USA  
[www.seaspine.com](http://www.seaspine.com)

### Silony Spine Corp.

8200 NW 27th St STE #104  
 Doral, FL 33122 USA  
[www.silony-spine.com](http://www.silony-spine.com)

### Stryker

600 Hope Pkwy SE  
 Leesburg, VA 20175 USA  
[www.stryker.com/spine](http://www.stryker.com/spine)

# HANDS-ON WORKSHOPS

\*as of November 30, 2024

IMAST delegates are encouraged to attend the Hands-On Workshops (HOW) on Thursday, April 3 and Friday, April 4. Morning, lunch, and afternoon sessions will be offered.

Each workshop is programmed by a single-supporting company and will feature presentations on topics and technologies selected by the company. Please note: CME credits are not available for Hands-On Workshops.

THURSDAY, APRIL 3	
08:00 - 09:00 <i>(includes breakfast)</i>	To be determined
12:00 - 13:00 <i>(includes lunch)</i>	1. Globus Medical 2. Johnson & Johnson MedTech 3. Medtronic
FRIDAY, APRIL 4	
11:30 - 12:30 <i>(includes lunch)</i>	1. ATEC Spine 2. Highridge Medical 3. Johnson & Johnson MedTech
14:30 - 15:30	To be determined

**SCOLIOSIS**  
**DIALOGUES**  
 An SRS Podcast

New Episodes Every Month!



# CORPORATE SUPPORTERS

We are pleased to acknowledge and thank those companies that **provided financial support to SRS in 2024**. 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 (REO) Fund.



## TRIPLE DIAMOND LEVEL SUPPORT

Medtronic



## DOUBLE DIAMOND LEVEL SUPPORT

A TEC Spine  
 Highridge Medical  
 Johnson & Johnson MedTech



## DIAMOND LEVEL SUPPORT

Globus Medical  
 Stryker

## GOLD LEVEL SUPPORT

OrthoFix/SeaSpine  
 Pacira BioSciences, Inc.

## SILVER

OrthoPediatrics

## BRONZE

Amgen  
 Augmedics  
 B. Braun Medical  
 Beijing Fule  
 Carlsmed  
 Cedars-Sinai  
 Expanding Innovations

Forethought Medical  
 Importek  
 Mainstay Medical  
 MiRus  
 Momentum Health, Inc.  
 Ocutrx Technologies, Inc.  
 Orthopaesia

Proprio  
 REACH Medical Instrument Co.  
 Silony Medical Corp.  
 SpineGuard, Inc.  
 Spinal Elements  
 SI-BONE

60<sup>th</sup> *Annual Meeting*  
September 16-20, 2025

**CHARLOTTE**  
*North Carolina, USA*



Scoliosis  
Research  
Society

**SAVE THE DATE**

Efficiency you can see,  
flexibility where you need it,  
strength you can feel



**CD Horizon™ ModuLeX™  
Spinal System**

- Procedural efficiency you can see
- Modular solutions designed for operative flexibility
- Strength in the connection

Discover more at [medtronic.com/aible](https://www.medtronic.com/aible)

Anteralign™ Spinal System and Magnifuse™ Bone Graft are not CE marked and not available in EU. This material should not be considered the exclusive source of information, it does not replace or supersede information contained in the device manual(s). Please note that the intended use of a product may vary depending on geographical approvals. See the device manual(s) for detailed information regarding the intended use, the (implant) procedure, indications, contraindications, warnings, precautions, and potential adverse events. For a MRI compatible device(s), consult the MRI information in the device manual(s) before performing a MRI. If a device is eligible for eIFU usage, instructions for use can be found at Medtronic's website manuals.medtronic.com. Manuals can be viewed using a current version of any major internet browser. For best results, use Adobe Acrobat® Reader with the browser. Medtronic products placed on European markets bear the CE mark and the UKCA mark (if applicable). For any further information, contact your local Medtronic representative and/or consult Medtronic's websites. The commercial name of Mazor™ is Mazor X Stealth™ Edition.