

# ISASS21

## 21<sup>ST</sup> ANNUAL CONFERENCE

INNOVATIVE TECHNOLOGIES, TECHNIQUES AND TIPS  
FROM AROUND THE WORLD

**MAY 13–15, 2021**

### PROGRAM CHAIRS:



ROBERT  
GUNZBURG, MD,  
PHD



SAFDAR  
KHAN, MD



PAUL  
PARK, MD



SHEERAZ  
QURESHI, MD,  
MBA

LOEWS MIAMI BEACH | MIAMI BEACH, FL

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## Dear Colleagues:

**It's time to reconnect.** We are working hard to ensure that the first major spine meeting you attend in 2021 is also one of the best!

***ISASS has entered a season of new energy and focus with new leadership over the past year.*** The Annual Conference has also been revamped **with a renewed emphasis on innovative spinal technologies and international participation.**

ISASS is very fortunate to have Chris Shaffrey, MD as our Keynote Speaker this year. His talk on Saturday morning about “When to Say ‘No’ to Major Surgery in the Adult Patient” should not be missed.

We hope to see you in beautiful South Beach, Miami in May for ISASS21!

### 2021 PROGRAM CHAIRS



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### QUESTIONS?

#### Contact ISASS:

Phone: +1 (630) 375-1432

Email: [info@isass.org](mailto:info@isass.org)

# CONFERENCE HIGHLIGHTS

## CALL FOR ABSTRACTS



Submit your research for a podium or poster presentation at ISASS 2021.

*The program will include 65+ academic podium presentations plus oral presentations of scientific posters.*



Visit [isass.org](http://isass.org) to learn more.



**Submission deadline:**  
January 22, 2021

## GRANTS AVAILABLE FOR YOUNG SURGEONS

If you are a resident, fellow, or in the first 3 years of practice, you are invited to apply for a grant to attend ISASS21.

- E-mail your CV to [klaney@broad-water.com](mailto:klaney@broad-water.com) by February 8.
- Notifications of acceptance will be sent by February 15.
- Attend a Non-CME Tech Workshop at Breakfast and the Young Surgeon Reception and Corporate Dinner on Friday evening.
- After the conference, you'll receive \$750 in grant funds plus free ISASS membership for 1 year!



Frank Phillips, MD  
ISASS President  
2020-2021

*“This year’s ISASS Annual Conference is going back to its roots, with a focus on new technology and techniques, international views, and practical tips and tricks. I think it will be one of the most clinically relevant meetings, with engaging lectures, debates and case discussions, that I’ll attend all year.”*

*“I’ve always found the ISASS conference to be a great place to network with colleagues and friends. My residents also find the CME and the networking opportunities to be very valuable.”*



Morgan Lorio, MD  
Member,  
Board of Directors

*“ISASS represents the best in spine innovation, spine surgeon support and spine patient access.”*

*“The scientific program is very attractive and embraces all major spinal pathologies. The new congress setting promotes outstanding discussion between surgeons from all over the world. I also believe that the Loews Hotel in Miami has an irresistible charm: therefore you cannot miss this great event!”*



Michael Wang, MD  
Member,  
Board of Directors



Massimo Balsano, MD  
Member,  
Board of Directors

# CONFERENCE FACULTY

## KEYNOTE SPEAKER



### Christopher I. Shaffrey, MD, FAANS

Chief, Spine Division  
Departments of Orthopaedic & Neurological Surgery  
Duke University School of Medicine  
Durham, North Carolina

Dr. Shaffrey has practiced and taught with distinction around the world. In 2018, Dr. Shaffrey was named the chief of the Spine Division at Duke University for the departments of Orthopaedic Surgery and Neurological Surgery. Dr. Shaffrey currently serves as President of the American Association of Neurological Surgeons. He has contributed more than 450 peer-reviewed publications and more than 1000 national and international presentations. He has served as the Deputy Editor of the journals *Spine* and *Spine Deformity* and as the Chair of the Editorial Board for *JNS: Spine* as well as being an editor for several textbooks. He has been the Chair of the ABNS and is currently a member of the Neurosurgery Residency Review Committee.

The faculty includes leaders from Australia, Belgium, Brazil, China, France, Ireland, Italy, Korea, Singapore, Spain, Sweden, the UK, and the USA.

### Program Directors

Robert Gunzburg, MD  
Safdar Khan, MD  
Paul Park, MD  
Sheeraz Qureshi, MD

### Faculty

Todd Albert, MD  
Neel Anand, MD  
Ali Araghi, DO\*  
Hyun Bae, MD  
Massimo Balsano, MD\*  
Svante Berg, MD  
Sig Berven, MD  
Scott Blumenthal, MD

Evalina Burger-Van der Walt, MD  
Joseph Butler, FRCS  
Dom Coric, MD\*  
Ashish Diwan, FRACS  
Rolando Garcia, MD  
Steve Garfin, MD  
Steve Glassman, MD  
Jeff Goldstein, MD  
Richard Guyer, MD  
Roger Härtl, MD  
Jonathan Hyde, MD  
Richard Hynes, MD  
Adam Kanter, MD  
Safdar Khan, MD  
Han Jo Kim, MD

Seok Woo Kim, MD  
Naresh Kumar, FRCS  
Brian Kwon, MD  
Virginie Lafage, PhD  
Khai Lam, FRCS  
Jean-Charles LeHuec, MD  
Morgan Lorio, MD\*  
Gregory Lutz, MD  
Carlotta Martini, MD  
Cristiano Menezes, MD  
Isaac Moss, MD  
Pierce Nunley, MD  
Avelino Parajon, MD  
Alpesh Patel, MD  
Frank Phillips, MD\*

Luiz Pimenta, MD  
Harvinder Sandhu, MD  
Rick Sasso, MD  
Dan Sciubba, MD  
Chris Shaffrey, MD  
*Keynote*  
Michael Steinmetz, MD  
Marek Szpalski, MD  
Khoi Than, MD  
Michael Wang, MD  
Robert Watkins IV, MD  
Hui Lin Yang, MD, PhD\*  
James Yue, MD  
Jack Zigler, MD\*

\*ISASS 2020–2021 Board of Directors

# PROGRAM

## THURSDAY, MAY 13, 2021

6:00 am	Registration Open
7:00 am	Non-CME Technology Workshops with Breakfast
<b>8:00 am</b>	<b>General Session #1</b>
	Have we proven value in spine surgery? Where are our shortcomings? Measuring outcomes in spine surgery
	<b>Lumbar Spine: Controversies That Matter in <i>Your</i> OR</b>
	<b>Rapid Fire: How I'd "Solve" the Challenges of Your Next Case</b> <i>L4-L5 low grade degenerative spondylolisthesis</i> <ul style="list-style-type: none"> <li>• Open MIS decompression</li> <li>• MIS decompression with interspinous device</li> <li>• OLIF</li> <li>• XLIF</li> <li>• MIS TLIF</li> <li>• Open posterior decompression and fusion</li> </ul>
	<b>International Perspectives: In My Country We Do It Right...</b> <ul style="list-style-type: none"> <li>• Degenerative scoliosis with stenosis</li> <li>• Refractory lumbar discitis (infection)</li> </ul>
10:05 am	Refreshment Break with Exhibits
<b>10:30 am</b>	<b>General Session #2: Free Papers</b>
12:30 pm	Lunch with Exhibits
<b>1:15 pm – 2:45 pm</b>	<b>Concurrent Sessions 3A &amp; 3B</b>
	<b>Concurrent Session 3A: Cervical Spine Complications Avoidance and Management</b> <ul style="list-style-type: none"> <li>• C5 palsy — Incidence, risk factors, &amp; prognosis</li> <li>• Effectiveness of nerve transfers for complete C5 palsies</li> <li>• Intraoperative monitoring for degenerative cervical surgery — worth the cost?</li> <li>• How do I decide between cervical TDR and ACDF?</li> </ul>
	<b>What's New?</b> <ul style="list-style-type: none"> <li>• Posterior cervical MIS percutaneous pedicle screw fixation</li> <li>• Unilateral bi-portal posterior cervical technique</li> </ul>
	<b>Non-CME Technology Updates</b>
	<b>Concurrent Session 3B: What's New and Exciting? Technologies Coming Your Way</b> <ul style="list-style-type: none"> <li>• Augmented reality in spine surgery</li> <li>• Artificial intelligence and predictive analytics</li> <li>• Is it time for disposable instruments?</li> <li>• Patient specific implants</li> </ul>
	<b>Non-CME Technology Updates</b>
2:45 pm	Refreshment Break with Exhibits



We've packed this 3-day program with:

- Candid discussions of complications
- Faculty from around the world prove how they "do it right"
- Straightforward assessments of new technology
- Debates on approaches, procedures, and risk factors



**CONCURRENT SESSIONS LET YOU CUSTOMIZE YOUR CONFERENCE EXPERIENCE!**

On Thursday afternoon, choose between:

- 3A: Cervical Spine
- 3B: New Technology



## FOCUS ON TECHNOLOGY

Look for these topics throughout the program:

- Fusion options
- Motion preservation strategies
- Robotics and navigation
- Patient-specific implants
- Augmented reality
- Biologics and disc regeneration
- Plus new tech coming soon



**PRESENT YOUR ACADEMIC PAPER OR POSTER AT ISASS21!**

**Submission Deadline: January 22**

## THURSDAY, MAY 13 *continued*

<b>3:05 pm</b>		<b>General Session #4: Endoscopic Spine Surgery</b>
		<ul style="list-style-type: none"> <li>• How I got started</li> <li>• How do I know I am good enough to shift my practice to endoscopic surgery?</li> <li>• When does one achieve competency to move procedures to endoscopic versus open?</li> </ul>
		<b>Technique Talks</b>
		<b>Debate: Far-Lateral (Extra-Foraminal) L5-S1 HNP</b> Endoscopic approach vs. tubular discectomy
		<b>Free Papers</b>
<b>5:35 pm – 6:35 pm</b>		Course Reception with Exhibits

## FRIDAY, MAY 14, 2021

<b>6:00 am</b>	Registration Open
<b>7:00 am</b>	Non-CME Technology Workshops with Breakfast
<b>8:00 am</b>	
<b>General Session #5: Motion Preservation</b>	
	<b>Lumbar Disc Replacement</b> My lumbar TDR looks pretty but my patient is miserable – where did I go wrong and what now?
	<b>Debate: Lumbar TDR for L4/5 Degenerative Disc Disease with L4 Radiculopathy</b> <ul style="list-style-type: none"> <li>• Pro</li> <li>• Con</li> </ul>
	<b>Cervical Disc Replacement</b> <ul style="list-style-type: none"> <li>• Multilevel cervical disc disease – should we be considering disc replacement for patients with more than 2 levels of disease?</li> <li>• Implant-related complications of cervical disc replacement devices</li> </ul>
	<b>Motion Preserving Cervical Surgical Techniques – Outcomes, Pearls, and Complication Avoidance</b> <ul style="list-style-type: none"> <li>• Posterior cervical foraminotomy</li> <li>• Anterior cervical foraminotomy</li> </ul>
	<b>Free Papers</b>
<b>10:20 am</b>	Refreshment Break with Exhibits
<b>10:50 am</b>	
<b>General Session #6: Free Papers</b>	
<b>12:30 pm</b>	Lunch with Exhibits

## FRIDAY, MAY 14 *continued*

<b>1:15 pm – 2:45 pm</b>		<b>Concurrent Sessions 7A &amp; 7B</b>	
		<b>Concurrent Session 7A: Lumbar Spine Complications Avoidance and Management</b> <ul style="list-style-type: none"> <li>• Managing lumbar problems in elite athletes</li> <li>• Managing common intra-operative complications in lumbar surgery</li> <li>• Salvage of lumbar artificial discs – anterior or posterior?</li> </ul>	
		<b>The Case Was Going Great Until This Happened...Specific Lessons I Learned</b>	
		<b>Concurrent Session 7B: Publishing in Spine Surgery</b> <ul style="list-style-type: none"> <li>• How to embark on a study</li> <li>• How to structure a paper and avoid pitfalls</li> <li>• The need for PROMs</li> <li>• The importance of registries</li> <li>• How to pick the right journal for a paper</li> </ul>	
2:45 pm		Refreshment Break with Exhibits	
<b>3:15 pm</b>		<b>General Session #8: Free Papers</b>	
4:48 pm		<b>Non-CME Technology Updates</b>	
5:15 pm – 6:30 pm		<b>Scientific Poster Presentation Session</b>	
6:45 pm – 7:30 pm		Young Surgeon Reception & Dinners	

## SATURDAY, MAY 15, 2021

6:30 am		Registration Open
7:00 am		Non-CME Technology Workshops and Biologics Workshop with Breakfast
<b>8:00 am</b>		<b>General Session #9: Adult Deformity</b>
		<ul style="list-style-type: none"> <li>• Spinopelvic alignment and measurement parameters</li> <li>• Posterior and 3-column osteotomies – what we have learned over 20 years</li> <li>• The role of MIS approaches on deformity surgery</li> <li>• PJK prevention – what is the evidence?</li> <li>• Revision deformity surgery: planning and complication prevention</li> </ul>
		Best Paper Awards
		Annual Business Meeting
		<b>Keynote Lecture: When to Say “No” to Major Surgery for the Adult Patient</b> <i>Christopher Shaffrey, MD</i>
		<b>Presidential Address</b> <i>Frank Phillips, MD</i>
10:00 am		Refreshment Break with Exhibits



**CONCURRENT SESSIONS LET YOU CUSTOMIZE YOUR CONFERENCE EXPERIENCE!**

On Friday afternoon, choose between:

- 7A: Lumbar Spine Complications
- 7B: Publishing in Spine Surgery

### KEYNOTE SPEAKER



Christopher Shaffrey, MD

### PRESIDENTIAL ADDRESS



Frank Phillips, MD

## SATURDAY, MAY 15 *continued*

10:25 am	<b>General Session #10: Free Papers &amp; Biologics</b>
	<p><b>Free Papers</b></p> <p><b>Biologics and Disc Regeneration: Intradiscal Therapies &amp; Their Level of Evidence</b></p> <ul style="list-style-type: none"> <li>• Clinical and radiological profile of a patient suitable for disc regeneration therapy</li> <li>• Allogenic stem cell therapy</li> <li>• Autogenous stem cells</li> <li>• PRP and other proteins</li> </ul>
12:40 pm	Lunch with Exhibits
1:10 pm	<b>General Session #11: New Technology and Its Impact on Your Practice</b>
	<p><b>Navigation and Enabling Technologies</b></p> <ul style="list-style-type: none"> <li>• Debate: Navigation vs. Robotics</li> <li>• Pro-navigation: Navigation is readily available, reliable, and accurate so we don't need a costly aiming arm</li> <li>• Pro-robotics: Technical ease and added applications (i.e. preop planning) are worth the cost</li> <li>• Navigation applications beyond screw placement (e.g. osteotomy, tumor resection, cage placement, decompression, etc.)</li> </ul> <p><b>Fusion Technology: Biology</b></p> <ul style="list-style-type: none"> <li>• Are all DBM/DBFs the same?</li> <li>• BMP — have we put the “haters” to bed?</li> <li>• Cellular allograft — is it worth the cost?</li> <li>• Novel biologics for fusion</li> </ul> <p><b>Free Papers</b></p> <p style="background-color: #f4a460;"><b>The Great Debates</b></p> <p><b>Debate: Large Central HNP with Myelopathy and Cord Signal Change</b></p> <ul style="list-style-type: none"> <li>• ACDF vs. TDR</li> </ul> <p><b>Debate: Single-level Lateral Lumbar Fusion — L3/4 Degenerative Stenosis/Low Grade Spondy</b></p> <ul style="list-style-type: none"> <li>• Standalone</li> <li>• Have to place perc. screw</li> <li>• Interspinous fixation device is ideal</li> </ul> <p><b>Debate: Spinal Fusion in ASC</b></p> <ul style="list-style-type: none"> <li>• Patient satisfaction</li> <li>• How profit influences surgeon decision making</li> </ul>
4:35 pm	Adjourn



**DON'T MISS THE GREAT DEBATES ON SATURDAY AFTERNOON!**



# REGISTRATION

## REGISTER ONLINE AT ISASS.ORG

Registration includes program sessions, materials, and meals listed in program.



**Early-bird Registration Discount**  
Expires Jan. 21



**Advance Registration**  
Closes April 21

	Early by Jan. 21	Advance by Apr. 21	On-Site after Apr. 21
<b>Surgeon</b>	\$750 (member) \$1050 (non-member)	\$850 (member) \$1150 (non-member)	\$950 (member) \$1250 (non-member)
<b>Allied Health (PA, NP, etc.)</b>	\$450 (member) \$750 (non-member)	\$550 (member) \$850 (non-member)	\$650 (member) \$950 (non-member)
<b>Resident/Fellow/Student</b>	\$150 (member) \$275 (non-member)	\$250 (member) \$375 (non-member)	\$250 (member) \$375 (non-member)
<b>Surgeon-Emerging Country*</b>	\$100 (member) \$300 (non-member)	\$150 (member) \$350 (non-member)	\$250 (member) \$450 (non-member)

\*Practice in Lower or Lower-Middle Income Country as Defined by the World Bank. Details at [bit.ly/isassworldbank](http://bit.ly/isassworldbank).

## Risk Free Cancellation Policy

If you need to cancel your attendance due to COVID-19 related travel restrictions implemented by your institution or a state or federal government agency, or health reasons, your registration will be refunded in full. To receive your refund, an email with documentation highlighting the reason for cancellation must be sent to Val Broyles at [vbroyles@broad-water.com](mailto:vbroyles@broad-water.com).

For any other cancellations, a \$50 administrative fee will apply. Cancellations after April 14, 2021 (aside from those noted above), will not be refunded.

## Payment Policy

Please note that check or wire transfer payments for registration must be received by April 14, 2021. If payment is not received by this date, your registration will be cancelled.

## DID YOU KNOW?

ISASS membership costs less than the amount you save on registration — it's a win-win! ISASS members also receive subscriptions to the International Journal of Spine Surgery, Vertebral Columns, the Policy and Advocacy Newsletter, and more! **Visit [isass.org](http://isass.org) for more information.**

## CURRENT TRAVEL INFO

**Miami Travel Updates:**  
[bit.ly/isassmiami21](http://bit.ly/isassmiami21)

**CDC Travel Updates:**  
[bit.ly/isasscdc21](http://bit.ly/isasscdc21)

# HOUSING DETAILS

The Loews Miami Beach blends the elegance of the Art Deco era with the comfort and luxury of today. We'll meet and stay at this incredible location, situated on three and a half acres of gorgeous beachfront in the heart of South Beach.

## The Loews Miami Beach Hotel

1601 Collins Ave.  
Miami Beach, FL 33139  
[loewshotels.com/miami-beach](http://loewshotels.com/miami-beach)



### Room Rate

Single/Double –  
\$299 per night,  
plus a \$16 daily  
resort fee and taxes



### Reservation Deadline

Make your reservation  
by April 21st to receive  
the discounted rate!



## To make your reservation:

Call the Loews Miami Beach at 1-888-879-0462 and ask to book a room for the “ISASS” conference

**Book online at [bit.ly/isasshotel](http://bit.ly/isasshotel)**



The South Beach neighborhood of Miami Beach glitters with trendy nightlife, luxury oceanfront hotels, fine dining, and a world-famous beach scene.

Miami International Airport is easily accessible from around the world – with non-stop flights from throughout the US, Central and South America, Europe, and the Middle East.

# CME INFORMATION

## Target Audience

This course is designed for orthopaedic and neurological spine surgeons, fellows, and residents.

## LEARNING OBJECTIVES

As a result of this activity, the participant should be better able to:

- Discuss research results in basic science, treatments and technologies in the field of spine surgery
- Evaluate and recommend treatment and surgical options for patients with various spine conditions
- Describe and compare innovative technologies in both assessment and treatment options for various spine conditions

## Physician Accreditation

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of Medical Education Resources (MER) and ISASS. MER is accredited by the ACCME to provide continuing medical education for physicians.

## Credit Designation

MER designates this live activity for a maximum of 21.25 AMA PRA Category 1 Credit(s)<sup>™</sup>. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

## Disclosure of Conflicts of Interest

Medical Education Resources insures balance, independence, objectivity, and scientific rigor in all our educational activities. In accordance with this policy, MER identifies conflicts of interest with its instructors, content managers, and other individuals who are in a position to control the content of an activity. Conflicts are resolved by MER 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. MER is committed to providing its learners with high-quality CME activities that promote improvements or quality in health care and not the business interest of a commercial interest.

## FDA (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.

## Commercial Support

Various medical companies have been invited to exhibit and provide grants for this course. Full disclosure of financial and other support will be provided in the course materials.

## Disclaimer

ISASS, MER, and BroadWater disclaim 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.

**BROADWATER**<sup>LLC</sup>

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PRELIMINARY PROGRAM

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**MAY 13-15, 2021**

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MIAMI BEACH, FL

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