

NASS SUMMER SPINE MEETING

SHERATON SAN DIEGO HOTEL & MARINA, SAN DIEGO, CA

JULY 26-29, 2017



Spine Foundation Non-CME Course:
Biologic Interventions for Spinal Pathologies:
Stem Cells, Growth Factors and Novel Therapeutics

July 26, 2017

Summer Spine Meeting 2017

July 27-29, 2017

PRELIMINARY PROGRAM

DEAR SPINE CARE PROFESSIONALS:

We have developed a solid curriculum and gathered a great group of faculty for this year's Summer Spine Meeting in beautiful San Diego.

The meeting is designed to encourage open discussion and allow for group interaction during abstract presentations, symposia, and workshops which address multiple spine care topics.

On Wednesday, July 26, prior to the start of the meeting, Wellington K. Hsu, MD will chair the Biologics Interventions for Spinal Pathologies: Stem Cells, Growth Factors and Novel Therapies course. The course brings together presenters from academia and industry to discuss indications, risks, and concerns regarding biologics for a variety of spinal conditions and the pertinent technologies and relevant issues in biologics use for spinal conditions.

Throughout the meeting, abstract presentations will address the current science on the cervical spine, thoracolumbar surgery and basic science. Faculty will cover topics such as Cervical Myelopathy, Workup of Mimicking Pathology, Spine Deformity and Lumbar Stenosis/Spondylolisthesis during symposia.

There is also a technical exhibition and ePoster viewing to round out the meeting offerings.

The meeting allows participants to gain additional insight about multiple spine care topics, earn CME credit and have the afternoons free to enjoy all San Diego has to offer.

We look forward to seeing you at Summer Spine 2017.



Clinton J. Devin, MD, Chair
Jason W. Savage, MD, Co-chair

ABOUT NASS

The North American Spine Society (NASS) is a multidisciplinary organization with 8,000 members in North America and abroad. The membership consists of orthopedic surgeons, neurosurgeons, physiatrists, other medical/interventional physicians and affiliated healthcare professionals involved in spine care.

The leading multidisciplinary organization in the field of spinal disorders, NASS' mission is to foster the highest quality, ethical, value- and evidence-based spine care for patients.

CONTINUING MEDICAL EDUCATION CREDIT

This activity has been planned and implemented in accordance with the Essentials and Standards of the Accreditation Council for Continuing Medical Education (ACCME). The North American Spine Society is accredited by the ACCME to provide continuing medical education for physicians and takes responsibility for the content, quality and scientific integrity of this CME activity.

The North American Spine Society designates this live activity for a maximum of 14.25 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

The American Medical Association has determined that physicians not licensed in the U.S. to participate in this CME activity are eligible for *AMA PRA Category 1 Credits™*.

Physician Assistants: The American Academy of Physician Assistants (AAPA) accepts Category 1 credit from AOACCME, prescribed credit from the American Academy of Family Physicians (AAFP) and *AMA PRA Category 1 CME Credit™* for the Physician's Recognition Award from organizations, such as NASS, accredited by the ACCME.

Nurses: For the purpose of recertification, American Nurses Credentialing Center (ANCC) accepts *AMA PRA Category 1 Credit™* from organizations accredited by the ACCME.

Nurse Practitioners: The American Association of Nurse Practitioners (AANP) accepts *AMA PRA Category 1 Credit™* from organizations accredited by the ACCME.

Requirements vary for other allied health and advanced practice providers; please contact your licensing organization for their requirements.

CME CERTIFICATES

After the meeting, evaluations will be submitted electronically and CME certificates will be printed directly from our website. Visit www.spine.org/CME to claim education credit and to print CME certificates. Contact education@spine.org with questions.

LEARNING OBJECTIVES

Upon completion of this meeting, participants will gain strategies to:

- ▶ Promote discussion of new scientific developments and best practices within spine care organizations;
- ▶ Demonstrate the application of current techniques, procedures and research;
- ▶ Practice evidence- and value-based medicine relative to spine care;
- ▶ Provide an environment for the exchange of ideas in spine care with experts and peers from around the globe;
- ▶ Provide opportunities to strengthen professional relationships worldwide.

WHO SHOULD ATTEND

Join the leading authorities in spine care, representing a multidisciplinary community that includes: orthopedic surgeons, neurosurgeons, radiologists, physiatrists, pain management specialists, anesthesiologists, psychologists, chiropractors, physician assistants, nurse practitioners, nurses, physical therapists, researchers, administrators and all other healthcare professionals with an abiding interest in the spine are encouraged to attend.

TECHNICAL EXHIBITION

Experience first-hand technology, products and services from vendors who can help you manage your professional goals and strategic objectives. The Technical Exhibition will be in Fairbanks Ballroom A-C. Breakfast and coffee breaks will be offered in the exhibit hall.

Technical Exhibition hours:

Wednesday, July 26	setup
Thursday, July 27	6:30 a.m.–12:00 p.m.
Friday, July 28	6:30–11:00 a.m.

WELCOME RECEPTION

The Welcome Reception will take place on Thursday, July 27, from 5:00–6:00 p.m. in the Garden Terrace at the Sheraton San Diego Hotel & Marina. This is an opportunity to see familiar faces and meet new colleagues.

SPINEPAC EVENT

President's Baseball & Brewery Tour Outing

Join your colleagues for an exclusive outing during NASS Summer Spine Meeting in San Diego, CA. Attendees will receive the ultimate VIP treatment as they watch the San Diego Padres take on the New York Mets at Petco Park from a box suite complete with food, drinks, and fun! This experience will be a carefree and luxurious event you won't want to miss. Spouses and guests of Summer Spine attendees are encouraged to attend.

Date: Thursday, July 27

Location: Petco Park, San Diego, CA, Western Metal Suite 3A
Time: 5:30 p.m. (meet in lobby Sheraton San Diego Hotel & Marina).

6:10 pm Opening pitch, New York Mets vs. San Diego, Padres

Duration: 2.5 hours

Suggested SpinePAC contribution per attendee: \$250
Transportation to and from the Sheraton will be provided.

Register for this event on the Summer Spine Meeting registration check out page.

INVITED FACULTY

Symposia Sessions:

Mohamad Bydon, MD
Clinton J. Devin, MD
John G. Finkenberg, MD
Alan S. Hilibrand, MD
Wellington K. Hsu, MD
David J. Kennedy, MD
Thomas E. Mroz, MD
Scott L. Parker, MD
Sheeraz A. Qureshi, MD
Jason W. Savage, MD
Byron Schneider, MD
Gregory D. Schroeder, MD
John H. Shin, MD
Michael Y. Wang, MD
Peter G. Whang, MD

Biologics Course:

Zorica Buser, PhD
Scott D. Daffner, MD
Alan Dang, MD
Clinton J. Devin, MD
W. Mark Erwin, DC, PhD
John G. Finkenberg, MD
Raymond Golish, MD, PhD
Carl A. Gregory, PhD
Raymond J. Hah, MD
Wellington K. Hsu, MD
Safdar N. Khan, MD
Jason W. Savage, MD
Harvey E. Smith, MD

Korean Spinal Neurosurgery Society:

Yong-Eun Cho, MD, PhD
Chung-Kee Chough, MD, PhD
Dong-Hwa Heo, MD, PhD
Jae Taek Hong, MD, PhD
Jung-Kil Lee, MD, PhD
Hyeun Sung Kim, MD, PhD
Jin-Sung Kim, MD, PhD
Sang-Gu Lee, MD, PhD
Jeong-Yoon Park, MD, PhD
Seung Hwan Yoon, MD, PhD

Biologic Interventions for Spinal Pathologies:

Stem Cells, Growth Factors, and Novel Therapeutics

Wednesday, July 26, 2017 (Day prior to start of Summer Spine)

Sheraton San Diego Hotel & Marina, San Diego, CA

The rapidly evolving field of spinal biologics has the potential to treat challenging painful conditions, however there is concern about the indications and risks of using biologics for treating spinal conditions.

Biologic Interventions for Spinal Pathologies will bring together presenters from academia and industry to discuss the pertinent technologies and relevant issues in biologics use for spinal conditions.

Speakers will address the following topics through presentations and case debates:

- An Update on Biologics in Spinal Conditions
- Allograft/Autograft
- Cellular-based Matrices
- Synthetics
- Growth Factors
- Interbody Cage Surface Technologies
- What's on the Horizon

Registration Fee:

\$200 Summer Spine Meeting registrants

\$350 Attendees not registered for Summer Spine Meeting

For details about Biologic Interventions for Spinal Pathologies, go to

www.spine.org/biologics

Thank you to the following companies for their support of this event.

Principal Sponsor



Major Sponsors



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WEDNESDAY, JULY 26

7:00 a.m.–6:00 p.m.

Registration/Speaker Information Center

Bel Aire Foyer

7:30 a.m.–3:45 p.m.

Spine Foundation Non CME Course: Biologic Interventions for Spinal Pathologies: Stem Cells, Growth Factors and Novel Therapeutics

Additional fee required

Bel Aire Ballroom

Chair: Wellington K. Hsu, MD

The field of spinal biologics is rapidly evolving as patients, researchers, and clinicians are recognizing its potential to treat challenging painful conditions. While the roles of both nonoperative and surgical treatment are relatively well-defined in the algorithm of spine care, the indications, risks, and concerns regarding biologics for a variety of spinal conditions have not been agreed upon. Because of the differences in regulatory pathways for many of these products, the availability of data is variable making administrative decision-making difficult. This meeting will bring together exciting minds from academia and industry to discuss the pertinent technologies and relevant issues in biologics use for spinal conditions.

THURSDAY, JULY 27

6:30–8:00 a.m.

Breakfast

Fairbanks A-C

6:30 a.m.–12:00 p.m.

Technical Exhibition ePoster Kiosks

Fairbanks A-C

6:30 a.m.–2:30 p.m.

Registration Speaker Information Center

Bel Aire Foyer

7:00–7:15 a.m.

Welcome/Opening Remarks

Bel Aire Ballroom

Clinton J. Devin, MD

Yong-Eun Cho, MD, PhD, Korean Spinal Neurosurgery Society

7:15–7:30 a.m.

Advocacy Presentation

Bel Aire Ballroom

Chair: John G. Finkenberg, MD

SPEAKER INFORMATION CENTER

Bel Aire Foyer

Presenters can upload or amend their presentations by visiting the Speaker Information Center located in the Bel Aire Foyer at Registration. Speakers are not permitted to use their own laptops for their presentations. **If you are a Mac user, you must convert your presentation to PowerPoint.** No exceptions will be made.

ePoster authors are **not** permitted to upload or amend their presentations on-site once the content review process has concluded.

Speaker Information Center hours:

Wednesday, July 26	7:00 a.m.–6:00 p.m.
Thursday, July 27	6:30 a.m.–2:30 p.m.
Friday, July 28	6:30 a.m.–2:30 p.m.
Saturday, July 29	6:30 a.m.–12:00 p.m.

THURSDAY, JULY 27 (CONT.)

7:30–9:00 a.m.

Symposium: Workup of Mimicking Pathology

Bel Aire Ballroom

Chairs: David J. Kennedy, MD; Byron J. Schneider, MD

Successful management of spine versus large joint (hip or shoulder) pathology is underpinned by accurate diagnosis. There is overlap in the presentation and pain referral patterns of the cervical spine and shoulder and similarly of the lumbar spine and hip. Physical exam in conjunction with diagnostic tests can help differentiate. Diagnostic injections can further clarify the diagnosis. At times, concomitant pathology exists necessitating both issues be addressed. This session will provide an evidence-based approach in using history, exam, imaging and diagnostic injections to determine accurate diagnosis.

9:00–9:30 a.m.

Break/Technical Exhibition

Fairbanks A-C

9:30–10:30 a.m.

Abstract Paper Presentations: Cervical Spine

Bel Aire Ballroom

10:30–11:00 a.m.

Break/Technical Exhibition

Fairbanks A-C

11:00 a.m.–12:30 p.m.

Symposium: Cervical Myelopathy

Bel Aire Ballroom

Chair: Wellington K. Hsu, MD

Cervical myelopathy is a common condition that can be debilitating if unrecognized and untreated. Advances in surgical technique have evolved the way spine specialists approach this problem. Keeping up to date with the most recent literature regarding neurological and patient reported outcomes after surgical intervention is important in offering an individualized treatment plan for each patient with myelopathy.

12:30 p.m.

General Meeting Adjourns

5:00–6:00 p.m.

Welcome Reception

Garden Terrace

5:30 p.m.

SpinePAC President's Baseball & Brewery Tour Outing (Registration required)

Meet in Sheraton Lobby

FRIDAY, JULY 28

6:30-8:00 a.m.

Breakfast

Fairbanks A-C

6:30-11:00 a.m.

Technical Exhibition

ePoster Kiosks

Fairbanks A-C

6:30 a.m.-2:30 p.m.

Registration

Speaker Information Center

Bel Aire Foyer

7:25-7:30 a.m.

Opening Remarks

Bel Aire Ballroom

7:30-9:00 a.m.

Symposium: Spine Deformity

Bel Aire Ballroom

Chair: Jason W. Savage, MD

The goal of this session is to discuss the general principles of evaluating and treating patients with adult spinal deformity. Faculty will review the important radiographic parameters and alignment objectives in ASD, with a focus on pre-operative planning, and discuss when and why to use different types of osteotomies to achieve adequate correction. Additionally, faculty will review the minimally invasive options to treat ASD, and discuss the management and mitigation of potential complications that often occur in these complex surgical procedures.

9:00-9:30 a.m.

Break/Technical Exhibition

Fairbanks A-C

9:30-10:30 a.m.

Abstract Paper Presentations: Thoracolumbar Surgery

Bel Aire Ballroom

10:30-11:00 a.m.

Break/Technical Exhibition

Fairbanks A-C

11:00 a.m.-12:30 p.m.

Symposium: Cervical Radiculopathy

Bel Aire Ballroom

Chair: Scott L. Parker, MD

12:30-2:30 p.m.

Lunch Symposium: Korean Spinal

Neurosurgery Society

MISS Suggestion for Pure Lumbar Foraminal Stenosis Management

Lunch provided to all attendees

Bel Aire Ballroom

Chair: Yong Eun Cho, MD, PhD

2:30 p.m.

General Meeting Adjourns

SATURDAY, JULY 29

6:30-8:00 a.m.

Breakfast

Fairbanks A-C

6:30 a.m.-12:00 p.m.

Registration

Speaker Information Center

Bel Aire Foyer

7:25-7:30 a.m.

Opening Remarks

Bel Aire Ballroom

Clinton J. Devin, MD

SATURDAY, JULY 29 (CONT.)

7:30-9:00 a.m.

Symposium: Lumbar Stenosis/ Spondylolisthesis

Bel Aire Ballroom

Chair: Peter G. Whang, MD

Lumbar stenosis is essentially ubiquitous in the elderly population and remains one of the most common conditions for which older patients undergo spinal surgery. With recent advances in operative technique, it is now possible to achieve the same goals of neural element decompression and maintenance of segmental stability using less invasive surgical procedures. Nevertheless, given the prevalence of therapeutic interventions and the increasing life expectancy of individuals in our society, it is inevitable that surgeons will need to be familiar with safe and effective revision strategies to treat conditions such as recurrent stenosis, adjacent segment degeneration, and progressive spinal deformities. There are a number of patient and procedural factors that may contribute to the development of perioperative complications which surgeons need to be cognizant of because prompt recognition and the implementation of appropriate treatments are critical for minimizing morbidity and mortality. This symposium is intended for spine surgeons and other practitioners who are interested in learning more about the “best practices” that have been developed for the surgical management of lumbar stenosis with or without instability.

9:00-9:30 a.m.

Break

Fairbanks A-C

9:30-10:30 a.m.

Abstract Paper Presentations: Basic Science

Bel Aire Ballroom

10:30 a.m.–12:00 p.m.

Symposium: Oncology

Bel Aire Ballroom

Chair: Mohamad Bydon, MD

A panel of experts will provide an overview of spinal oncology, both primary and metastatic tumors in addition to extradural and intradural tumors. The session will conclude with case debates.

12:00 p.m.

General Meeting Adjourns

DISCLAIMER

The material presented at Summer Spine Meeting 2017 is made available by the North American Spine Society for educational purposes only. The material is not intended to represent the only, nor necessarily the best, method or procedure appropriate for the medical situations discussed; rather, it is intended to present an approach, view, statement or opinion of the faculty which may be helpful to others who face similar situations.

NASS disclaims any and all liability for injury or other damages to any individual attending the meeting and for all claims which may arise out of the use of the techniques demonstrated therein by such individuals, whether these claims shall be asserted by physicians or any other person.

On occasion, changes in program content or faculty may occur after the Preliminary Program has been distributed. The Final Program will contain confirmed program content, faculty and presenters. Any further changes from the published Final Program will be announced at the beginning of the session.

SHERATON SAN DIEGO HOTEL & MARINA

Experience authentic San Diego at Sheraton San Diego Hotel & Marina. Conveniently located overlooking the Bay, only minutes from the San Diego Airport. Featuring world class spirit and genuine warmth while offering easy access to the city's premier attractions, including the San Diego Zoo, and the Gaslamp Quarter.

Sheraton San Diego Hotel & Marina's oasis also offers a variety of dining options, three swimming pools, tennis courts, spa, and jogging trails. Inspiring sunsets and a waterfront location add to the charm.

ATTENDEE HOTEL RESERVATIONS

Meeting registration MUST be completed in order to secure housing for the Summer Spine Meeting.

Participants will not be permitted hotel reservations until their meeting registration is complete. NASS will monitor the housing reservations list to make sure that all individuals with reservations also are officially registered for the Summer Spine Meeting. NASS reserves the right to cancel reservations that do not meet these criteria.

Phone: 1-877-734-2726 (Reference NASS 2017 Summer Spine Meeting to get the discounted hotel rates)

Online: www.spine.org/sshotel

Hotel reservations must be made no later than June 27, 2017 to guarantee the room rates. Reservations are made on a first-come, first-served basis and are subject to room availability; the discounted rate may not apply after the cut-off date. There are instances where the room block can sell out prior to the cut-off.

Meeting registration must be completed and processed within two weeks of reserving your hotel room. If not, your hotel room will be cancelled without notice.

HOTEL ROOM RATES, FEES AND CANCELLATION POLICY

Bay Tower Guestroom: (\$219 room rate + \$19 amenities fee + 12.695% tax)

All reservations paying on own require a deposit of one (1) night's room and tax by guest credit card to be charged upon time of booking a reservation. An individual's deposit is refundable to that individual if the resort receives notice of an individual's cancellation on or before 4:00 p.m. (hotel time) on July 23, 2017. Guests not arriving for a scheduled reservation will forfeit the one (1) night deposit and the remainder of the reservation will be released.

Above group room rate applies to single/double occupancy and is subject to California Sales Hotel Tax, which is currently 12.695%. The above room rates will be extended to accommodate early arrivals and late departures for the nights of July 23, 2017 (THREE DAYS PRIOR) through August 1, 2017 (THREE DAYS POST). All extensions are subject to hotel group room and rate availability.

All rates are based upon the European Plan (excluding meals) and are subject to all applicable taxes at the time of the event. The state room and sales tax is 12.695% and is subject to change.

AIRPORT AND TRANSPORTATION INFORMATION

Airport

The San Diego International Airport is a 5-minute drive from the Sheraton San Diego Hotel & Marina. The Sheraton San Diego Hotel & Marina provides complimentary San Diego airport shuttle service to/from the San Diego International Airport. The courtesy airport shuttle arrives every 20-25 minutes from 4:45 a.m.–1:00 a.m., seven days a week. Please see the following for instructions: www.sheratonsandiegohotel.com/san-diego-airport-shuttle

Rental Cars

Several rental car companies are located at the San Diego International Airport. Visit its website for a complete list: <http://www.san.org/Parking-Transportation/Rental-Cars#3573224-rental-agencies>

Parking

Valet parking: \$37 per day, plus tax

Self-Parking: \$32 per day, plus tax

*Prices subject to change without notice.

CONFERENCE REGISTRATION FEES

Registration Deadline:

The online registration system will be open throughout the meeting. For full registration instructions, policies and to register, please visit www.spine.org.

Registration fees include: All educational sessions and technical exhibition from Thursday, July 27 through Saturday, July 29; continental breakfasts and beverage breaks (Thursday through Saturday); and Welcome Reception (Thursday evening).

Members Save! Not a member? Get a FREE membership for 2017 and save on future courses and resources through NASS by joining today. Apply at www.spine.org/jointoday to get a complimentary membership for the rest of this year!

CONFERENCE REGISTRATION CATEGORIES AND FEES	Early Registration through June 27	Regular Registration June 28–July 18
Member Physician	\$650	\$750
Member Commercial Affiliate	\$650	\$750
Member Emeritus	\$450	\$550
Member Affiliated Healthcare	\$350	\$450
Member In-Training	\$350	\$450
Nonmember Physician	\$750	\$850
Nonmember Affiliated Healthcare	\$450	\$550
Nonmember In-Training ¹	\$450	\$550
Commercial Business Interest ²	\$750	\$850
Guest ³ (Limit 1 guest)	\$160	\$160

¹In-Training/Residents/Fellows: To receive resident/fellow pricing please fax program status letter on letterhead from your program director to 630-230-3709.

²Commercial Business Interest: Interest in spine field but does not treat patients. Not permitted to purchase a guest registration.

³Guest: Limited to 1 person. Includes continental breakfasts, breaks and welcome reception. This option MAY NOT be used to register associates who will be attending scientific sessions and/or exhibition.

ONDEMAND PROGRAM RECORDINGS

Order the OnDemand program recordings and get 24/7 access to all education programs. This recording includes symposia, podium presentations and discussions/debates as well as ePosters. These web-based, fully synchronized audio, video, and slide presentations are available anywhere you can access the internet. Don't miss your chance to view the archived online compilations of what you missed and earn education credit!

Member Summer Spine Registrant	\$0
Member Not Registered for Meeting	\$110
Nonmember Summer Spine Registrant	\$75
Nonmember Not Registered for Meeting	\$162.39

BIOLOGICS COURSE

Biologic Interventions for Spinal Pathologies: Stem Cells, Growth Factors and Novel Therapeutics
Wednesday, July 26, 7:30 a.m.–3:45 p.m.

Summer Spine Registrant	\$200
Not Registered for Meeting	\$350

NASS FINANCIAL CONFLICT OF INTEREST DISCLOSURE POLICY

NASS recognizes that professional relationships with industry are essential for development of new spine technologies and medical advancement. According to the NASS Ethics Committee, which authored the disclosure policy, “the goal is to create an environment of scientific validity, in which learners can accurately judge whether the information they receive is objective and unbiased, and to be sure that our members are current and forthright in their dealings with one another and with their colleagues and patients.” The establishment of uniform disclosure requirements frees individuals from having to decide which relationships might influence his or her decision-making and which are irrelevant; transparent disclosure allows the audience to participate in the interpretation of the significance. All authors and faculty speaking at the Annual Meeting have been required to provide complete disclosure of all conflicts of interest.

COMMERCIAL SUPPORT DISCLOSURE

As a sponsor accredited by the ACCME, the North American Spine Society must ensure balance, independence, objectivity and scientific rigor in all its sponsored activities.

All individuals participating in a sponsored activity are expected to disclose to the activity audience any significant financial interest or other relationship (1) with the manufacturer(s) of any commercial product(s) and/or provider(s) of commercial services discussed in an educational presentation and (2) with any commercial supporters of the activity. Significant financial interest or other relationships may include: grants or research support, employee, consultant, major stockholder, member of the speaker’s bureau, etc. Disclosure information will be made available visually on a PowerPoint® slide before each presentation, in the Final Program and Proceedings and orally by the moderator.

PROGRAM COMMITTEE STATEMENT ON RESOLUTION OF CONFLICT OF INTEREST IN PRESENTATIONS

The intent of this disclosure is to ensure that all conflicts of interest, if any, have been identified and have been resolved prior to the speaker’s presentation. By doing so, the North American Spine Society has determined that the speaker’s or author’s interests or relationships have not influenced the presentation with regard to exposition or conclusion; nor does the Society view the existence of these interests or commitments as necessarily implying bias or decreasing the value of the presentation.

FDA DISCLOSURE

If a device or drug requiring FDA approval is identified as an important component of a presentation, the author must indicate the FDA status of those devices or drugs as Approved, Investigational or Not Approved for distribution within the United States. The Final Program will include all FDA status information. Certain medical devices and drugs identified at Summer Spine Meeting 2017 may have FDA clearance for use for specific purposes only, or in restricted research settings. The FDA has stated it is the responsibility of the physician to determine the FDA status of each drug or device he or she wishes to use in clinical practice and to use these products in compliance with applicable law.