

PRELIMINARY PROGRAM

SPINE ACROSS THE SEA

July 26-30, 2015

The Fairmont Orchid

Kohala Coast, Big Island, Hawaii USA



A Joint Providership by the North American Spine Society and the Japanese Society for Spine Surgery and Related Research

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DEAR SPINE CARE PROFESSIONALS:

Aloha! On behalf of the North American Spine Society (NASS) and the Japanese Society for Spine Surgery and Related Research (JSSR), we invite you to attend Spine Across the Sea, July 26-30, 2015, on the beautiful island of Hawaii. This meeting will provide spine care professionals an opportunity to share current information and concepts relating to spinal problems. While most attendees will come from the United States and Japan, participants from Asia, the Americas and Europe are expected to attend. Spine Across the Sea will be held at one of the main island's premier resort hotels, The Fairmont Orchid on the Kohala Coast.

Discover a luxurious Hawaii resort on the Kohala Coast inspired by culture, well-being and genuine Aloha. From Mauna Kea's winter snow-capped mountaintop to the flowing lava of Kilauea Volcano to tropical rainforests and a teeming undersea world, the Big Island of Hawaii has much to offer the spirited traveler. Enjoy a sugar-white sandy lagoon and aquamarine waters, a children's program, golf, tennis and six restaurants.

This unique meeting is held every three years and offers a wealth of benefits: scientific paper presentations, electronic posters and symposia; a technical exhibition; breakfasts and networking breaks. The Wine and Cheese Opening Reception on Sunday, July 26 is a great start to the meeting and excellent opportunity to interact with colleagues.

We look forward to seeing you in Hawaii. Mahalo!

THOMAS E. MROZ, MD

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North American Spine Society Program Co-chair

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Japanese Society for Spine Surgery and Related Research Program Chair

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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.



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 19.25 *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™*.

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.

Each state has different requirements for nurses, physical therapists and other nonphysician providers; please contact the credit granting organization for its requirements.

For credit that may be acceptable to state medical associations, specialty societies or state boards for medical licensure, please contact those organizations for their requirements.

CME CERTIFICATES

After the meeting, evaluations will be submitted electronically and CME certificates will be printed directly from our website at www.spine.org/CME. Additional information will be available in the Final Program.

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.

TECHNICAL EXHIBITION

Visit the Technical Exhibition to complement the professional meetings and sessions by evaluating first-hand the latest developments in equipment, supplies and services that are relevant to spine care.

Technical Exhibition hours:

Monday, July 27	6:45 a.m.–12:00 p.m.
Tuesday, July 28	6:45 a.m.–12:00 p.m.
Wednesday, July 29	6:45 a.m.–12:00 p.m.
Thursday, July 30	6:45 a.m.–10:00 a.m.

Breakfast and beverage breaks will be offered in the Technical Exhibition area daily.

SUNDAY, JULY 262:00–6:00 p.m. **Attendee Registration**6:00–7:30 p.m. **Welcome Reception****MONDAY, JULY 27**6:30–8:00 a.m. **Continental Breakfast**6:30 a.m.–12:45 p.m. **Attendee/Exhibitor Registration**
ePosters6:45 a.m.–12:00 p.m. **Technical Exhibition**7:15–7:20 a.m. **Opening Remarks**7:20–9:05 a.m. **General Session:**
Cervical Surgery I9:05–9:35 a.m. **Networking Break**9:35–11:05 a.m. **Symposium:**
Cervical Myelopathy—Ossification
of Posterior Longitudinal Ligament
(OPLL)NASS Chair: John C. France, MD
JSSR Chair: Mamoru Kawakami,
MD, PhDThis symposium will outline a variety
of techniques to treat cervical
myelopathy and OPLL as well as
present specific case examples to
reinforce where, when, and how to
utilize each technique.11:05 a.m.–12:45 p.m. **General Session:**
Best Papers**TUESDAY, JULY 28**6:30–8:00 a.m. **Continental Breakfast**6:30 a.m.–12:45 p.m. **Attendee/Exhibitor Registration**
ePosters6:45 a.m.–12:00 p.m. **Technical Exhibition**7:15–7:20 a.m. **Opening Remarks**7:20–9:05 a.m. **General Session:**
Diagnostics/Imaging9:05–10:05 a.m. **Symposium:**
Biologics: New Technologies and
Stem CellsNASS Chair: Jeffrey C. Wang, MD
JSSR Chair: Hiroataka Haro, MD, PhDFaculty will present an evidence-based
update on new and existing biologic
and regenerative strategies for the
treatment of spinal disorders.10:05–10:35 a.m. **Networking Break**10:35–11:45 a.m. **General Session:**
Tumor/Infection11:45 a.m.–12:45 p.m. **Symposium:**
Adult Spinal Deformity:
Where Are We Now?NASS Chairs: Ronald A. Lehman, MD;
Michael Y. Wang, MD
JSSR Chair: Yukihiro Matsuyama,
MD, PhDThis symposium will address current
treatment strategies for adult spinal
deformity with emphasis on factors
for proximal junctional kyphosis,
minimally invasive surgery and cervical
contributions for sagittal alignment.**WINE AND CHEESE OPENING RECEPTION**

The Wine and Cheese Opening Reception marks the official start of Spine Across the Sea on Sunday, July 26, from 6:00 to 7:30 p.m. at the Coconut Grove at The Fairmont Orchid. This is an opportunity to see familiar faces and meet new colleagues.



WEDNESDAY, JULY 29

6:30–8:00 a.m.	Continental Breakfast
6:30 a.m.–12:45 p.m.	Attendee/Exhibitor Registration ePosters
6:45 a.m.–12:00 p.m.	Technical Exhibition
7:15–7:20 a.m.	Opening Remarks
7:20–9:05 a.m.	General Session: Lumbar Surgery I
9:05–10:05 a.m.	Symposium: Minimally Invasive Spine Surgery: Degenerative Spondylolisthesis Debate NASS Chair: John G. DeVine, MD JSSR Chair: Munehito Yoshida, MD, PhD Faculty will debate current treatment strategies for degenerative spondylolisthesis with emphasis on debating traditional open versus MIS techniques.
10:05–10:35 a.m.	Networking Break
10:35–11:45 a.m.	General Session: Cervical Surgery II
11:45 a.m.–12:45 p.m.	Symposium: Management and Treatment of Sports-related Spine Injuries NASS Chair: Wellington K. Hsu, MD JSSR Chair: Koichi Sairyo, MD This symposium will evaluate current concepts regarding diagnosis, management, treatment, and return-to-play criteria of common cervical and lumbar spinal injuries from contact sports such as American football, basketball, and hockey. Faculty will review the latest evidence-based literature regarding treatment principles of spine injuries in athletes. Case studies also will be presented to elucidate important treatment algorithm principles based on age, sport played and symptom profile.

THURSDAY, JULY 30

6:30–8:00 a.m.	Continental Breakfast
6:30 a.m.–12:45 p.m.	Attendee/Exhibitor Registration ePosters
6:45–10:00 a.m.	Technical Exhibition
7:15–7:20 a.m.	Opening Remarks
7:20–8:35 a.m.	General Session: Lumbar Surgery II
8:35–10:05 a.m.	General Session: Osteoporosis/Stenosis
10:05–10:35 a.m.	Networking Break
10:35–11:35 a.m.	Symposium: Complications in Cervical Spine: My Worst Case NASS Chairs: Ajit A. Krishnaney, MD; John H. Shin, MD JSSR Chair: Masashi Yamazaki, MD, PhD In this interactive symposium, the faculty panel will discuss cases of complications associated with cervical spine surgery with emphasis on avoidance and management strategies. Audience participation is encouraged.
11:35 a.m.–12:45 p.m.	General Session: Outcomes
12:45 p.m.	Meeting Adjourns

ACCOMMODATIONS

The Fairmont Orchid

1 N. Kaniku Drive
Kohala Coast, Hawaii
Main Telephone: 808-885-2000

Situated just 30 minutes from the Kona International Airport, The Fairmont Orchid is on the Kohala Coast inspired by culture, well-being and genuine aloha. From the flowing lava of Kilauea Volcano to tropical rainforests and a teeming undersea world, the Big Island of Hawaii has much to offer the spirited traveler.

The Fairmont Orchid is a 32-acre luxury oceanfront Hawaii resort along the beautiful Kohala Coast and enjoys a sugar-white sandy lagoon and aquamarine waters, a children's program, golf, tennis and six restaurants including Luana Lounge and Brown's Deli. Guests of The Fairmont Orchid are treated to activities and Hawaii luxury resort amenities such as participating in a weaving class using coconut fronds, lei making oceanside on a grassy knoll, Hawaiian outrigger canoe paddling in the open ocean, stand up paddle boarding in the bay, kayak fishing adventures and more.



ATTENDEE HOTEL RESERVATIONS

Online <https://resweb.passkey.com/go/nass2015>
Toll Free 800-441-1414

Attendee hotel reservations may be made online or by calling The Fairmont Orchid, Hawaii. Reservations must be made no later than June 26, 2015 to guarantee the room rates. Reservations and room categories 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 when the room block may sell out prior to the cut-off date so secure your reservations early.

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.

To receive the special conference hotel rates, please mention that you are attending Spine Across the Sea.

SPECIAL CONFERENCE RATES

Room Category	Single/Double Rate
Fairmont (Garden View) Rooms	\$215.00
Partial Ocean View Rooms	\$255.00
Ocean View Rooms	\$295.00

ADDITIONAL FEES

Please note: The European Meal Plan covers guest room rate only. Portage and maid gratuities are not included in the European Plan and are at the discretion of the guest. 100% of the portage, maid gratuity and room delivery gratuities are distributed to the hotel's staff.
Portage: \$8.50 per person, round-trip
Maid Gratuity: \$2.50 per room/per day

The below service charges are subject to change without notice and are subject to 4.166% state tax.

Fun and Sun Activity Pass

\$75.00 per adult, \$65.00 per child.
This is an optional one-time charge, per person, per stay. Includes unlimited Beach Equipment Rental—Kayaks, canoes, paddleboards, snorkel gear and more.

Parking Charges

\$17.00 Self-parking, per car/day, includes state tax
\$22.00 Valet Parking, per car/day, includes state tax

COMPLIMENTARY TO ALL GUESTS

- Kukui Nut Lei greeting upon arrival
- Signature Hui Holokai Beach Boys program with ocean and cultural activities including daily historic hikes, daily outrigger canoe rides throughout the day, daily arts and crafts classes and scheduled botanical tours
- Daily turn down service including two bottled waters refreshed daily
- In-room coffee with Kona Coffee
- Safety deposit boxes and in-room safes
- Use of 24-hour Fitness Center
- Business internet (512 KB) access is complimentary for Fairmont Gold Floor and Fairmont President's Club (FPC) members. The cost is \$14.50 inclusive of tax per 24 hours if you are not a Fairmont Gold Floor and Fairmont President's Club (FPC) member. The hotel can assist you with registering for FPC membership or you may go online to register at www.fairmont.com/fpcenroll



AIR TRAVEL

Kona International Airport
73-200 Kupipi Street
Kailua-Kona, HI 96740
Distance to Hotel: 30 Minutes

Hilo International Airport
2450 Kekuanaoa Street
Hilo, HI 96720
Distance to Hotel: 1.5 Hours

GROUND TRANSPORT

Rental Cars

Dollar Rent-a-Car is located on property at The Fairmont Orchid and maintains a desk at the resort with cars available. In addition, the car companies below are available at the Kona-Keohole International Airport (KOA).

- Alamo 800-327-9633
- Avis 800-321-3712
- Budget 800-527-0700
- Dollar 800-800-4000
- Enterprise 800-736-8222
- Hertz 800-654-3011
- National 800-227-7368

Limousine

Limousine service is offered and can be booked through the Fairmont Orchid concierge at 808-887-7368.

Taxi

Air Taxi Company exclusively services The Fairmont Orchid. Your transportation request can be arranged through the hotel concierge at 808-887-7368.

LUAU ARRANGEMENTS

The Fairmont Orchid holds a Gathering of the Kings luau on Saturdays at the Plantation Estates on the hotel grounds. Bookings can be arranged for Gathering of the Kings or other off-property luaus through the hotel concierge.

Gathering of the Kings

Gathering of the Kings takes an exciting journey throughout Polynesia. At the Gathering of the Kings luau, Hawaiians celebrate as they come together and acknowledge those kings that have gone before them to establish the land as a place of abundance and those who ruled with a heart of Lokahi (unity).

Times

Check-In Times 5:00–5:45 p.m.
 Buffet 6:00 p.m.
 Show 6:50–8:00 p.m.

Pricing

Ali'i Seating	\$134 + tax per person <i>Includes keepsake lei greeting, reserved seating and pupus/appetizers</i>
Adults	\$109 + tax
Children (6-12 yrs.)	\$75 + tax
Children (5 yrs. and under)	Complimentary

Cancellation Policy

24 hour advance notice applies to receive a full refund. In the event of rain, the venue will be moved indoors.



TOURS, EXCURSIONS AND GOLF ARRANGEMENTS

Arrangements can be made by contacting The Fairmont Orchid concierge daily from 7:00 a.m.–7:00 p.m.

Email: ORC.Concierge@Fairmont.com
 Telephone: 808-887-7320

COMPLIMENTARY BEACH CLUB ACTIVITIES

Canoe Rides

A quick lesson in traditional Hawaiian canoe paddling.

Daily Hikes

Join a Hui Holokai Ambassador and explore historic fishponds, shelter caves, petroglyph fields or our very own Historical hike to learn about Hawaiian treasures.

Hawaiian Arts and Crafts

Weave a bowl, basket, fish and other souvenirs from coconut fronds, pandanus leaves and more. Sign up by 12:00 Noon at the Beach Shack.

Snorkel Introduction

Perfect for beginners or for those looking for a refresher. Inquire at the beach shack for available times.

Tide Pool Education

Discover the ocean's natural sanctuary to find an abundance of sea life. Water shoes, hats and sunscreen recommended.

DAILY TORCHLIGHTING

Held prior to sunset daily beginning at the Luana Lounge Terrace, this time-honored tradition, the blowing of the conch shell or "pu" by our Hui Holokai Ambassadors signifies the ending of another beautiful day in paradise. A must see for keiki (children) and adults alike!

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

CONFERENCE REGISTRATION FEES

Registration fees include: All educational programs and technical exhibition from Monday, July 27 through Thursday, July 30; Wine and Cheese Opening Reception on Sunday, July 26; breakfasts and breaks on Monday, Tuesday, Wednesday and Thursday.

Members Save!

Not a member? Get a FREE membership for 2015 and save on future courses and resources through NASS by joining today. Apply at www.spine.org/join and use the Promo Code RM15CA (enter in the Promo Code text first and then click on the button for Promo Code) to get a complimentary membership for the rest of this year!

Conference Registration Categories and Fees

Member Doctor	\$850
Member JSSR <i>To receive member pricing, please email registration@spine.org after you create a new contact on www.spine.org.</i>	\$850
Member Emeritus	\$650
Member Affiliated Healthcare	\$550
Member In-Training	\$550
Nonmember Doctor	\$950
Nonmember Affiliated Healthcare	\$650
Nonmember In-Training <i>To receive resident/fellow pricing, please fax program status letter on letterhead from your program director to 630-230-3709.</i>	\$650
Commercial Business Interest <i>Interest in spine field but does not treat patients. Not permitted to purchase a guest registration.</i>	\$950
Guest (Limit 1 guest) <i>Includes breakfasts, breaks and Opening Reception.</i>	\$160

VIRTUAL ATTENDEE

Purchase the Spine Across the Sea OnDemand to access the live stream as well as recordings of all educational programs. The OnDemand includes symposia, podium presentations and discussions/debates as well as ePosters. Check the meeting schedule to determine when to log-on and view the live stream.

\$154 Virtual Member Attendee

\$227 Virtual Nonmember Attendee

Please note: All educational programs are listed in Hawaii-Aleutian Time (HAST). Purchasing the virtual attendee registration grants you access to the live stream and program recordings.

ONDEMAND PROGRAM RECORDINGS FOR ATTENDEES

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!

\$50 Member Attendee

\$75 Nonmember Attendee

2015 SPINE ACROSS THE SEA SCIENTIFIC PROGRAM REVIEWERS

NASS thanks these volunteers who spent numerous hours reviewing abstracts.

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Yasutsugu Yukawa, MD

ABOUT JSSR

The Japanese Society for Spine Surgery and Related Research (JSSR) is the largest Japanese organization representing members in the field of spine and spinal cord disorders. JSSR has more than 3,600 members, mainly orthopedic surgeons. They hold an annual meeting and publish its official journal to promote basic research and clinical innovation.

ABOUT NASS

The North American Spine Society (NASS) is a multidisciplinary organization with approximately 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.



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 Spine Across the Sea 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 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 Spine Across the Sea 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.

DISCLAIMER

The material presented at Spine Across the Sea 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.