

ASIA

AMERICAN SPINAL INJURY ASSOCIATION

2019



SCI SUMMIT

ANNUAL SCIENTIFIC MEETING



April 2-5

www.asia-spinalinjury.org



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Waikiki, Hawaii





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2019 Lifetime Achievement Award Recipient

John Steeves, PhD



John Steeves, PhD

Established in 1987, the ASIA Lifetime Achievement Award is presented to an individual who has made a significant contribution to the world of spinal cord injury. Criteria include career dedication, peer recognition, professional competence, and significant achievement in the field. Each recipient is chosen from a slate of ASIA member-submitted candidates.

John Steeves, PhD has been named recipient of the 2019 Lifetime Achievement Award. Dr. Steeves brings to the table more than 40 years of experience in spinal cord injury and neuroscience. He is, or has been, an executive member or chair of many national and international committees, boards, and organizations concerned with SCI, including ASIA and ISCoS. He founded, and is currently co-chair, of SCOPE (Spinal Cord Outcomes Partnership Endeavor), which is the international industry-academic-foundation roundtable for improving SCI clinical trial protocols and an affiliate of ASIA. He has an extensive list of over 150 publications, as well as a few patents. He founded and led a biotechnology company, and now serves as a clinical trial consultant to several pharma-



John Steeves is appointed by British Columbia Premier Gordon Campbell at his first appointment for the BC Leadership Chair Program in November 2002.

ceutical and biotechnology companies.

Over the years, Dr. Steeves' basic science research characterized the neural pathways to the spinal cord and their roles in the initiation and modulation of movement in vertebrates, including humans. He has made significant contributions

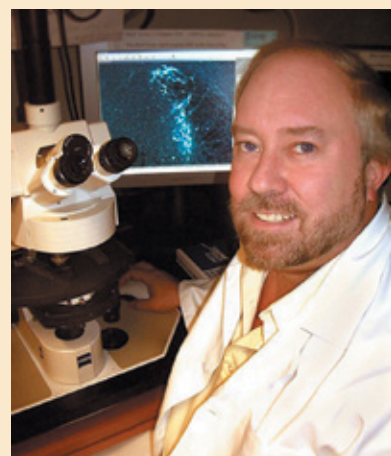
to the identification of CNS myelin as one inhibitory influence on functional CNS repair. Over the past two decades, he has focused his activities on translational research and human studies, including the develop-



John Steeves' son Alexander, at age one in 1992, is now entering residency in Internal Medicine at NYU.

ment of activity-dependent rehabilitation of arm and hand function, neurological and electro-physiological outcome measures after human SCI, and more importantly, the design of valid clinical trial protocols and clinically meaningful outcome measures.

Dr. Steeves was first appointed to the University of British Columbia (UBC) in 1979 and became a full Professor in 1992. In 2002, he was the first appointment to the BC Leadership Endowed Chair program. He is a Distinguished Scholar of The Peter Wall Institute for Advanced Studies at UBC, recipient of the Champion of Change Award (Canada), and a Killam Research Fellowship (Canada). Dr. Steeves is the founder of ICORD (International Collaboration On Repair Discoveries) and served as its Director for fifteen years (1995-2010). ICORD resides in a \$50 million



purpose-built building, The Blusson Spinal Cord Centre, which opened in 2008. With ICORD members, Dr. Steeves guided the building applications, design and construction.

Dr. Steeves has served as a mentor to many in the field and has been a guiding force as thought leader, advocate and standard bearer, encouraging all to produce at the highest level. Despite all his accolades, Dr. Steeves remains approachable, friendly and humorous, and his advice is widely sought.

Dr. Steeves will be awarded the 2019 ASIA Lifetime Achievement Award in April, at the 2019 SCI Summit Annual Scientific Meeting.



The Steeves family hiking near their home in British Columbia. From left: daughters Laura and Nikki and wife Gina.



Small combined 65th birthday and retirement party in Penticton (April 2017); left to right: Jim Steeves (brother), Prof. James Fawcett (U. Cambridge) Gina Steeves (wife), Linda Jones (Colorado), Dr. Matthias Walter (Surgical fellow, UBC), Dr. Catherine Jutzeler (Research fellow, UBC), John, Doreen Steeves (mother), Dr. Kip Kramer (Asst Prof., UBC), Prof. Armin Curt (U. Zurich), Jane Hsieh (Wings for Life)

Past Lifetime Achievement Award Recipients

2018 Mary Bartlett Bunge, PhD & Richard P. Bunge, MD	2002 Kristijan T. Ragnarsson, MD
2017 Fin Biering-Sørensen, MD	2001 Henry B. Betts, MD
2016 Lawrence C. Vogel, MD	2000 John F. Ditunno, Jr., MD
2015 P. Hunter Peckham, PhD	1999 Theodore M. Cole, MD
2014 Michael J. DeVivo, DrPH	1998 Paul R. Meyer, Jr., MD
2013 Lesley M. Hudson, MA	1997 David F. Apple, Jr., MD
2012 Daniel P. Lammertse, MD	1996 Alain Rossier, MD
2011 Charles H. Tator, MD, PhD	1994 J. Paul Thomas
2009 Randal R. Betz, MD	1993 Samuel L. Stover, MD
2008 J. Darrell Shea, MD	1992 Albin T. Jousse, MDR.
2007 Robert L. Waters, MD & Gale G. Whiteneck, PhD	1991 Edward Carter, MD
2006 Hans Frankel, MD	1990 A. Estin Comarr, MD
2005 William H. Donovan, MD	1987 John M. Young, MD
2003 Jerome M. Cotler, MD	



The Distinguished G. Heiner Sell Lectureship Marcel Post, PhD



Marcel Post, PhD

The G. Heiner Sell Lectureship was inaugurated in 1982, following the untimely death of Dr. Sell the previous year. At that time, Dr. Sell was President-Elect of ASIA, and the association wanted to memorialize him by presenting this named lecture as the keynote of its annual scientific meeting.

The 2019 Distinguished G. Heiner Sell Lectureship will be presented at the 2019 ASIA Annual Conference by Marcel Post, PhD. Dr. Post has worked as associate professor at the Department of Rehabilitation Medicine, Nursing Sciences and Sports of the University Medical Center Utrecht and as senior researcher and leader of the spinal cord injury research program at De Hoogstraat Rehabilitation since 2005. In 2014, he was appointed research special professor of spinal cord injury rehabilitation at the University of Groningen. His main research interests include rehabilitation care, including bowel care, participation, quality of life, psychological factors, self-management, and family empowerment in persons with spinal cord injury, and instrument development in these areas. For many years, he has been involved in the

development, translation and/or validation of tests and questionnaires. He has served on the executive committee of the International SCI Data Sets project since its origin in 2002 and has co-chaired the development of the Quality of Life Data Set and the Activities and Participation Data Set.

Dr. Post has extensive experience as PI of different types of studies, including psychometrical studies, multicenter cohort studies and a multicentre randomized clinical trial. With his research team, he published a landmark article in the Archives of Physical Medicine and Rehabilitation on outcomes of neurogenic bowel management (2015). Findings from this large study will be discussed at this course. Dr. Post is also a methodologist with expertise in measurement outcomes. He serves as Associate/Section Editor of Spinal Cord and the Archives of Physical Medicine and Rehabilitation, is on the Scientific Committee of ISCoS and is on the executive committee of the International SCI Data Sets project. Dr. Post will present the Sell Lecture on *Restoring Quality of Life After Spinal Cord Injury*.

DID YOU KNOW?



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ASIA's Electronic Communications and Education Committees carefully monitor SCI research articles for regular postings on the ASIA website and ASIA social media outlets. Get plugged in!

asia-spinalinjury.org



American Spinal Injury Association – ASIA

Previous Sell Lecturers

- 2018 William “Zev” Rymer, MD, PhD**
Restoration of Motor Function in Persons with Chronic Spinal Cord Injury - A Potential Therapeutic Role for Acute Intermittent Hypoxia (AIH)
- 2017 Jacqueline C. Bresnahan, PhD**, San Francisco, California
Modeling SCI in Animals To Understand The Human Condition, and Vice Versa
- 2016 Steven Kirshblum, MD**, West Orange, New Jersey
When You Come to a Fork in the Road: Lessons Learned and a Map for the Future
- 2015 Michael L. Boninger, MD**, Pittsburgh, Pennsylvania
The Future of Neural Prosthetics in SCI
- 2014 W. Dalton Dietrich III, PhD**, Miami, Florida
Protection and Repair After Spinal Cord Injury: Accomplishments and Future Directions
- 2013 Kristjan T. Ragnarsson, MD**, New York, New York
ASIA 40th Anniversary: Beginnings, Accomplishments, and Future Challenges
- 2012 William Bauman, MD**, Bronx, New York
Secondary Medical Consequences of SCI
- 2010 Andrew R. Blight, PhD**, Hawthorn, New York
Therapeutic Development in SCI: A View from Industry
- 2009 Jonathan R. Wolpaw, MD**, Albany, New York
Using Spinal Cord and Brain Plasticity in Rehabilitation: Reflex Conditioning and Brain-Computer Interfaces
- 2008 Mark Tuszynski, MD, PhD**, San Diego, California
Enhancing Plasticity and Regeneration after SCI: Challenges of Clinical Translation
- 2007 Arthur Prochazka, MD**, Alberta, Edmonton
New Technologies in SCI Management
- 2006 Volker Dietz, MD**, Zurich, Switzerland
Neuronal Plasticity after SCI: Present and Future Treatments
- 2005 Claire E. Hulsebosch, PhD**, Galveston, Texas
Treatments for SCI: Disproving the Smith Papyrus
- 2004 Gale G. Whiteneck, PhD**, Englewood, Colorado
Measuring and Modifying SCI Outcomes
- 2003 Barbara S. Bregman, PhD**, Washington, DC
Transplants and Neurotrophic Factors Increase Regeneration and Recovery of Function After SCI
- 2002 Michal Schwartz, PhD**, Rehovot, Israel
Fighting the Consequences of SCI by Harnessing the Immune System: Prospects for Therapeutic Vaccination
- 2001 Mary B. Bunge, PhD**, Miami, Florida
Transplant Strategies to Improve Regeneration in the Adult Spinal Cord
- 2000 Susan J. Harkema, PhD**, Los Angeles, California
Sensory Processing by the Human Lumbosacral Spinal Cord During Locomotion: Implications for Recovery of Walking after Neurologic Injury
- 1999 Ake Seiger, MD, PhD**, Stockholm, Sweden
Human Fetal CNS Tissue Transplantation to the Injured Spinal Cord
- 1998 Giles S. Brindley, MD**, London, England
Neuroprostheses in SCI
- 1997 O. Lars Olson, MD**, Stockholm, Sweden
Spinal Cord Repair Strategies, Possibilities and Limitations
- 1996 Charles H. Tator, MD, PhD**, Toronto, Ontario
Experimental and Clinical Studies of the Pathophysiology and Management of Acute SCI
- 1995 William C. de Groat, PhD**, Pittsburgh, Pennsylvania
Mechanisms Underlying the Recovery of Lower Urinary Tract Function Following SCI
- 1994 Paul J. Reier, PhD**, Gainesville, Florida
Neural Tissue Transplantation and SCI: Bridging the Gap Between Basic Science and Clinical Reality
- 1993 Robert R. Menter, MD**, Englewood, Colorado
Aging and SCI: Exploring the Unknown
- 1992 John F. Ditunno, Jr., MD**, Philadelphia, Pennsylvania
ASIA Standards 1992: Past and Future
- 1991 V. Reggie Edgerton, PhD**, Los Angeles, California
A Physiological Basis for Development of Rehabilitative Strategies for Spinal Injured Patients
- 1990 Martin E. Schwab, PhD**, Zurich, Switzerland
Inhibitors of Neurite Growth: Role in CNS Regeneration
- 1989 David C. Viano, PhD**, Detroit, Michigan
Cause and Control of SCI in Automobile Crashes
- 1988 Bernard Towers, MD**, Los Angeles, California
Quadriplegia and Life Extension: Who Decides?
- 1987 Edward J. McGuire, MD**, Ann Arbor, Michigan
Fertility in SCI Patients
- 1986 John Doyle**, Washington, DC
Renewal with Challenge for a Specialty Disability Group: SCI
- 1985 P. Hunter Peckham, PhD**, Cleveland, Ohio
The State of the Art in FES
- 1984 Albert J. Aguayo, MD**, Montreal, Quebec
Axonal Regeneration from the Adult Mammalian Brain and Spinal Cord
- 1983 R. Edward Carter, MD**, Houston, Texas
Respiratory Function in SCI
- 1982 J. Paul Thomas**, Washington, DC
SC Dysfunction: A Unique Model for American Medicine



The 2019 Apple Award Recipients

Morgan K. Callahan, MD and Rachel E. Cowan, PhD

For Excellence in Publishing in SCI Rehabilitation Research

Morgan K. Callahan, MD and Rachel E. Cowan, PhD are recipients of the 2019 ASIA Apple Award for their paper titled “Relationship of Fitness and Wheelchair Mobility With Encounters, Avoidances, and Perception of Environmental Barriers Among Manual Wheelchair Users With Spinal Cord Injury.”

The Apple Award for excellence in publishing in spinal cord injury rehabilitation literature is presented annually during the ASIA scientific meeting in recognition of the best published paper by a clinician or researcher in the preceding calendar year.

The Apple Award is named in honor of David F. Apple, Jr., MD, founding member and Past President of the American Spinal Injury Association (ASIA). The award is a collaboration of three entities that were critically important to Dr. Apple during his long career in orthopaedic surgery at the Shepherd Center in Atlanta, Georgia, where he served as founding medical director for 30 years. Dr. Apple is currently emeritus medical director of the journal *Topics in Spinal Cord Injury Rehabilitation* of which he was editor-in-chief from 1994-2011.

Rachel Cowan has been a Research Assistant Professor at the University of Miami Miller School of Medicine. Morgan Callahan is at Northwestern University Feinberg School of Medicine.

Previous Apple Award Winners

2018	Brian Kwon, MD Vancouver, BC, Canada	2012	Mark S. Nash, PhD Miami, Florida
2017	Philip Popovich, PhD Columbus, Ohio	2011	Christopher D. Pritchard, PhD Boston, Massachusetts
2016	Spyridon Karadimas, MD, PhD Toronto, Ontario	2010	Anthony F. DiMarco, MD Cleveland, Ohio
2015	Meegan G. Van Straaten, PT Rochester, Minnesota	2009	James S. Krause, PhD Charleston, South Carolina
2014	Jacquelyn J. Cragg, MPH Vancouver, British Columbia	2008	Christopher Patrick Smith, MD Houston, Texas
2013	Ralph J. Marino, MD Philadelphia, Pennsylvania	2007	Mary Jane Mulcahey, PhD Philadelphia, Pennsylvania

GET INVOLVED!



Join a Committee

ASIA is a member-driven organization. Our committees actively help ASIA with continued success in leading improved lives for people with spinal cord injury or disease. Complete a committee application today!

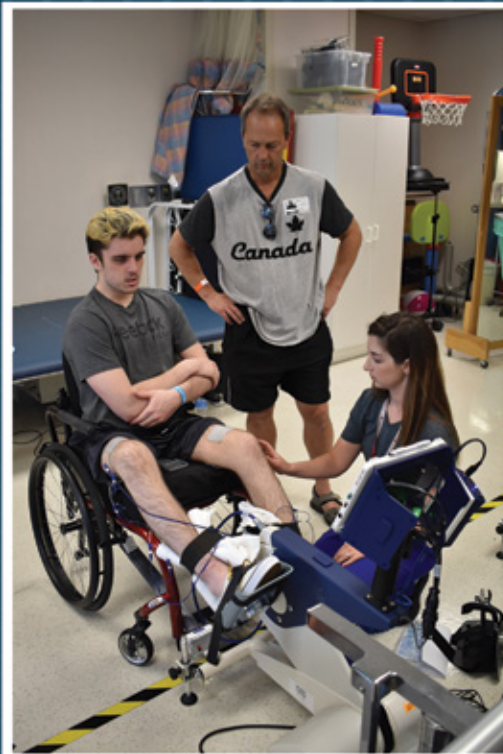
Support a New Member

The vitality of ASIA stems from its members. Consider sponsoring a new member for a year to help us grow. Sponsor a new member by paying for his/her first year as a member. Payment instructions and forms are available on the ASIA website.



Become a Mentor

Become a Mentor or Mentee today! ASIA respects the expertise of new and seasoned members. Our Mentor/Mentee Program ensures that all members advance their skills in spinal cord injury care and research. Mentorship applications are available on the ASIA website.



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2019 Vogel Award Recipient

Peter W. New, MBBS

The 2019 Vogel Award Recipient is Peter W. New, MBBS for a paper titled “Global Mapping for the Epidemiology of Paediatric Spinal Cord Damage: Towards a Living Data Repository.” The paper appeared in the December 2018 issue of *Spinal Cord*.

Peter New is an Adjunct Associate Professor of Epidemiology & Preventative Medicine at Monash University in Melbourne, Australia.

The Vogel Award is given for the best paper by a clinician or researcher involved in pediatric SCI rehabilitation in the preceding calendar year. The award honors Lawrence C. Vogel, MD, a recognized world expert on SCI in children. For the past 30 years, Dr. Vogel has served as the Medical Director of the SCI Program at Shriners Hospitals for Children in Chicago. He is a Past President of ASIA.

Previous Recipients of the Vogel Award

- 2018 Joanne Baerg – Loma Linda, California
- 2017 John Shin, MD – New York, New York
- 2016 Alicia January, PhD – Chicago, Illinois
- 2015 Feng Tian, PhD – Boston, Massachusetts



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2019 Neilsen Foundation Allied Health Professional Research Award of ASIA



2019 Award Recipient

Jacob G. Long, PT, DPT, NCS, ATP/SMS

Jacob G. Long, PT, DPT, NCS, ATP/SMS, a physical therapist at the Methodist Rehabilitation Center in Jackson, Mississippi, has been named the 2019 Neilsen Foundation Allied Health ASIA Research Award recipient.

Mr. Long will receive \$25,000 to fund his study, "Does the speed of robotic leg movements during tilt-table verticalization affect orthostatic hypotension in persons with subacute SCI?" He will receive his award during the 2019 SCI Summit in Hawaii.

The Neilsen Foundation Allied Health Professional Research Award of ASIA is a one-year award of \$25,000 to a clinician at the master's or clinical doctorate level. The purpose of the award is to encourage clinicians in the field of SCI to incorporate an element of research into their professional practice. Recipients are selected by the ASIA Awards Committee.



Jacob G. Long, PT, DPT, NCS, ATP/SMS

Jacob Long received his doctorate in physical therapy from the University of Mississippi Medical Center in 2013. He initially worked in the outpatient setting in Fayetteville, North Carolina. Upon his return to Jackson, he joined the Methodist Rehabilitation Center in 2014. After a year in the stroke program, Dr. Long transitioned to the spinal cord injury program to advance his education and clinical expertise through study of this complex condition. In parallel to his clinical duties, he achieved two assistive technology certifications from the Rehabilitation Engineering and Assistive Technology Society of North America (RESNA) – the Assistive Technology Professional (ATP) in 2016 and Seating & Mobility Specialist (SMS) in 2017. After passing the American Board of Physical Therapy Specialties board examination in Neurologic Physical Therapy (NCS) in 2018, he was promoted to the position of Clinical Specialist. In this role, he serves as a resource and mentor for other therapists and students and actively collaborates with the investigators in the Methodist research division, the Center for Neuroscience and Neurological Recovery. In addition to his growing expertise in neuro-rehabilitation and robotic therapies, he performs complex wheelchair seating evaluations during inpatient rehabilitation.

In addition to his clinical activities, he assists with the education of physical therapy students in the fields of seating/mobility, robotics and neurologic physical therapy practice, and participates in the Neurologic Physical Therapy Residency program through the University of Mississippi Medical Center.

April 2-5

**Hilton Hawaiian Village
Waikiki, Hawaii**

MEETING SCHEDULE

Monday, April 1

8:00 AM - 5:00 PM	ASIA Strategic Planning Conference – Board Members and Invited Guests	<i>Rainbow Suite</i>
4:00 PM - 6:00 PM	Registration	<i>Palace Lounge</i>

Tuesday, April 2

6:00 AM - 6:00 PM	Registration		<i>Palace Lounge</i>
7:00 AM - 8:00 AM	Mentor/Mentee Breakfast <i>Honolulu 1</i>	Breakfast with Partners and Exhibitors	<i>Palace Lounge</i>
8:00 AM - 8:15 AM	Welcome and Introduction - Keith E. Tansey, MD, PhD, FASNR		<i>Tapa Ballroom 2-3</i>
8:15 AM - 8:45 AM	Opening Session: Lifetime Achievement Award - John Steeves, PhD		<i>Tapa Ballroom 2-3</i>
8:45 AM - 9:30 AM	Sell Lecture: Restoring Quality of Life After Spinal Cord Injury - Marcel W. M. Post, PhD		<i>Tapa Ballroom 2-3</i>
9:30 AM - 10:30 AM	Poster Session A with Partners and Exhibitors <i>Palace Lounge/Tapa Ballroom 1/Palace Lobby/Iolani 5-7</i>		
10:30 AM - 11:00 AM	Partner Recognition and Neilsen Foundation Allied Health Professional Research Award of ASIA		<i>Tapa Ballroom 2-3</i>
11:00 AM - 12:00 PM	Point - Counter Point: Bone Health Cathy B. Craven, MD; Therese Johnston, PT, MBA, PhD; Leslie Morse, DO; Cristina Sadowsky, MD		<i>Tapa Ballroom 2-3</i>
12:00 PM - 1:15 PM	Sponsored Lunch Symposium (Non CME): RGM Protein in Neuro Degeneration and Neuro Regeneration <i>Tapa Ballroom 2-3 and/or Palace Lounge</i>		
1:15 PM - 2:15 PM	COURSE: <i>Tapa Ballroom 2-3</i> ISNCSCI: The New Updated Version Ruediger Rupp, PhD Christian Schuld, MSc	C/41 <i>Honolulu 2-3</i> COURSE: Management of Spinal Cord Injuries in Youth and Adolescents Lawrence Vogel, MD Kathy Zebracki, PhD MJ Mulcahey, PhD, OTR/L Randal R. Betz, MD	O1 - O27 <i>Honolulu 1</i> SHORT TALKS SESSION ONE Advocacy, Assistive Technology, Rehabilitation, Rehabilitation Therapy, Wheelchair

Journal numbering is indicated as follows: P = Poster, O = Oral and C = Course

Rooms are color coded as:

 Palace Lounge

 Honolulu 1

 Tapa Ballroom 2-3
and/or Palace Lounge

 Tapa Ballroom 2-3

 Iolani 1-3

 Tapa Ballroom 1/Palace
Lobby/Iolani 5-7

 Honolulu 2-3

 Palace Lounge/Tapa
Ballroom 1/Palace Lobby/
Iolani 5-7

A conference map is available on the ASIA Mobile Meeting Guide at asiammg.org.

2:15 PM - 2:25 PM	Stretch Break/Transfer to Next Session		
2:25 PM - 2:55 PM	<i>Tapa Ballroom 2-3</i> Review of NIH Meeting (:30) Lyn Jakeman, PhD	C/32 <i>Honolulu 2-3</i> COURSE: Testosterone Replacement Therapy With and Without Exercise After Spinal Cord Injury Ashraf Gorgey, MPT, PhD, FACSM Therese Johnston, PT, MBA, PhD Forrest Gail, PhD	O28-O53 <i>Honolulu 1</i> SHORT TALKS SESSION TWO Acute Care, Assistive Technology, Basic Science/Animal Models, Cardiovascular, Exoskeletons, Imaging, Measurement and Outcomes Instruments, Metabolic/Obesity, Motor Control, Neural Plasticity, Psychosocial
2:55 PM - 3:25 PM	Early Career Committee Update (:30) Jennifer Coker, MPH		
3:25 PM - 3:35 PM	Stretch Break/Transfer to Next Session		
3:35 PM - 4:35 PM	O54 <i>Tapa Ballroom 2-3</i> ROUND ROOM ONE What to Do About Pain: Opioids and Marijuana Marcalee Alexander, MD Thomas Bryce, MD Jennifer Coker, MPH Daniel E. Graves, PhD	O55 <i>Honolulu 2-3</i> ROUND ROOM TWO Explore the Invisible: Why Patients Stop Following Our Recommendations Andrei Krassioukov, MD, PhD, FRCPC Rune Norager, PhD	O56 <i>Honolulu 1</i> ROUND ROOM THREE A Conversation Between Researchers and Clinicians: How Can We Enhance Communication and Facilitate Learning Opportunities? Susan Charlifue, PhD Isa A. McClure, PT, MAPT
4:35 PM	Evening Off/Committee Meetings		

- CONTINUED -

For the most up-to-date schedule, faculty, room assignments, posters, exhibits and evaluations, download the 2019 Mobile Meeting Guide at asiammg.org.



Wednesday, April 3

6:00 AM - 6:00 PM	Registration		<i>Palace Lounge</i>
7:00 AM - 8:00 AM	Breakfast with Partners and Exhibitors		<i>Palace Lounge</i>
8:00 AM - 9:30 AM	O57 - O62 Award-Eligible Oral Presentations A Neuroprosthesis for Hand Grasp and Postural Control after Cervical Spinal Cord Injury: An Update Anne Bryden, MA, OTR/L Associations Between Insurance Provider and Assistive Technology Use One Year After Tetraplegia Spinal Cord Injury: Findings from the Spinal Cord Injury Model Systems National Database Kimbereley Monden, PhD Communication Regarding Neuropathic Pain After SCI: Provider Perspectives Eva Widerstrom-Noga, DDS, PhD Development of Crosswalks to Aggregate International Spinal Cord Injury Functional Data Linda Jones, PT Evaluating the Efficacy of Functional Electrical Stimulation Therapy Assisted Walking After Chronic Motor Incomplete Spinal Cord Injury: Effects on Bone Biomarkers and Bone Strength Cathy B. Craven, MD Noninvasive Neuromodulation of Cardiovascular Control Following Experimental Spinal Cord Injury Rahul Sachdeva, PhD		<i>Tapa Ballroom 2-3</i>
9:30 AM - 10:30 AM	Poster Session B with Partners and Exhibitors		<i>Palace Lounge/Tapa Ballroom 1/Palace Lobby/Iolani 5-7</i>
10:30 AM - 11:30 AM	Harnessing Big Data to Drive Reproducibility and Translation in SCI Keynote Speaker: Adam Ferguson, PhD		<i>Tapa Ballroom 2-3</i>
11:30 AM - 2:30 PM	Mid-Day Break		
2:30 PM - 3:30 PM	C/46 <i>Tapa Ballroom 2-3</i> COURSE: Increasing Translational Success: A Discussion on Trial Design of Animal and Human Studies to Increase the Successful Implementation of Basic Research Findings to the Clinic Linda Jones, PT Karim Fouad, PhD Michael Beattie, PhD Edward Wirth III, MD, PhD	C/24 <i>Honolulu 2-3</i> COURSE: How to Achieve Commercial Success of Neurotechnology Addressing the Needs of People Living with SCI Kim Anderson-Erisman, PhD Megan Moynahan, MS Anthony Ignagni, MS Steven Kirshblum, MD	O63 - O86 <i>Honolulu 1</i> SHORT TALKS SESSION THREE Activity-Based Training, Electrophysiology, Neural Plasticity, Neuromodulation, Sex/Fertility
3:30 PM - 3:40 PM	Stretch Break		
3:40 PM - 4:10 PM	Membership Business Meeting for Current Members		<i>Tapa Ballroom 2-3</i>
4:10 PM - 4:20 PM	Stretch Break/Transfer to Next Session		
4:20 PM - 4:50 PM	<i>Tapa Ballroom 2-3</i> PRESIDENT'S TALK (:30) Research Options ISNCSCI Keith E. Tansey, MD, PhD, FASNR	<i>Honolulu 2-3</i> C/09 COURSE: Cognitive Function Following Spinal Cord Injury: The Impact of Cardiovascular Dysregulation Tom E. Nightingale, PhD Rahul Sachdeva, PhD Aaron Phillips, PhD Jill M. Wecht, EdD	<i>Honolulu 1</i> O87 - O108 SHORT TALKS SESSION FOUR Basic Science/Animal Models, Models, Upper Extremity Function, Urology
4:50 PM - 5:20 PM	How Can We Help You? An Update on the Standards of Professional Practice for Psychologists, Social Workers and Counselors in the Field of SCI Rehabilitation (:30) Heather Russell, PhD		
5:20 PM - 5:50 PM	Refreshment Break with Partners and Exhibitors		

5:50 PM - 7:20 PM	C/43 <i>Tapa Ballroom 2-3</i> COURSE: Clinical Trials: A Critical Appraisal of Lessons Learned and Applications for Future Studies <i>Sponsored by Spinal Cord Outcomes Partnership Endeavor (SCOPE)</i> Linda Jones, PT Daniel Lammertse, MD James Guest, MD, PhD, FACS Andrew Blight, PhD Stephen Huhn, MD Edward Wirth III, MD, PhD	COURSE: <i>Honolulu 2-3</i> STOP Falls - START Today: Model Fall Prevention Programs and Take Home Strategies in SCI Deterrence Stanley Michaels, MFA Emma Harrington, EdM Sheryl Markowitz, MSW, LISW-S, LCSW	O109 - O133 <i>Honolulu 1</i> SHORT TALKS SESSION FIVE Cardiovascular, Chronic Care, Clinical Trial Updates, Musculoskeletal
		▲ Session ends at 6:50 pm	▲ Session ends at 6:50 pm

Thursday, April 4

7:00 AM - 10:00 AM	ASIA Board of Directors Meeting - Closed Meeting		<i>Iolani 2-3</i>
9:00 AM - 5:00 PM	Registration		<i>Palace Lounge</i>
10:00 AM - 10:45 AM	Axon Regeneration After Spinal Cord Injury Keynote Speaker: Michael Sofroniew, MD, PhD		<i>Tapa Ballroom 2-3</i>
10:45 AM - 10:55 AM	Stretch Break/Transfer to Next Session		
10:55 AM - 12:25 PM	Poster Session C with Partners and Exhibitors		<i>Palace Lounge/Tapa Ballroom 1/Palace Lobby/Iolani 5-7</i>
12:25 PM - 1:25 PM	Lunch with Partners and Exhibitors <i>Tapa Ballroom 2-3 and/or Palace Lounge</i>		
1:25 PM - 1:55 PM	<i>Tapa Ballroom 2-3</i> CSF and Serum Biomarkers of Acute Spinal Cord Injury (:30) Brian K. Kwon, MD, PhD, FRCSC	C/34 <i>Honolulu 2-3</i> COURSE: Translational Studies of Immune System Dysfunction After Spinal Cord Injury Adam Stein, MD Jan Schwab, MD, PhD Ona E. Bloom, PhD Philip Popovich, PhD Laura Krisa, PhD	O134 - O157 <i>Honolulu 1</i> SHORT TALKS SESSION SIX Measurement and Outcomes Instruments, Metabolic/Obesity Prevention, Psychosocial, Skin
1:55 PM - 2:25 PM	Magnetic Resonance Neuroimaging Methods to Study Spinal Cord Injury (:30) Feroze Mohamad, PhD		
2:25 PM - 2:35 PM	Stretch Break/Transfer to Next Session		
2:35 PM - 3:35 PM	COURSE: <i>Tapa Ballroom 2-3</i> Post-Acute Primary Care Clinical Implementation Panel <i>Moderator: Suzanne L. Groah, MD, MSPH</i> Indira Lanig, MD James Milligan, MD Lisa A. Beck, MS, APRN, CNS, CRRN	C/50 <i>Honolulu 2-3</i> COURSE: Advocacy and Spinal Cord Injury - Past, Present and Future Anne Bryden, MA, OTR/L Kim Anderson-Erisman, PhD Matthew Davis, MD	Expedited ISNCSCI: The Final Version 1.0 (:30) Stephen P. Burns, MD 2019 Apple Award Talk (:15) 2019 Vogel Award Talk (:15)
3:35 PM - 3:45 PM	Stretch Break/Transfer to Next Session		
3:45 PM - 4:45 PM	COURSE: <i>Tapa Ballroom 2-3</i> Spinal Cord Learning: From Biology to the Rehab Gym James Grau, PhD George Hornby, PhD, PT	C/20 <i>Honolulu 2-3</i> COURSE: Infections as "Outcome Modifying Events" After Spinal Cord Injury - An Interdisciplinary Perspective James Guest, MD, PhD, FACS Vanessa Noonan, MScPT, PhD Jan Schwab, MD, PhD Marcel Kopp, MD Stephen McKenna, MD	O158 - O181 <i>Honolulu 1</i> SHORT TALKS SESSION SEVEN Exoskeletons, Pain, Respiratory, Spasticity, Spine Surgery
6:00 PM - 9:00 PM	President's Luau Reception - Tickets required		<i>Hale Koa Hotel</i>

- CONTINUED -

Friday, April 5

6:00 AM - 3:00 PM	Registration		<i>Palace Lounge</i>
7:00 AM - 8:00 AM	Coffee with the Professor		<i>Iolani 1-3</i>
8:00 AM - 9:00 AM	Awards Session		<i>Tapa Ballroom 2-3</i>
9:00 AM - 10:00 AM	Poster Session D with Partners and Exhibitors <i>Palace Lounge/Tapa Ballroom 1/Palace Lobby/Iolani 5-7</i>		
10:00 AM - 10:30 AM	<i>Tapa Ballroom 2-3</i> Neuromodulation Symposium: Introduction and Plenary Keith E. Tansey, MD, PhD, FASNR John Martin, PhD	C/06 <i>Honolulu 2-3</i> COURSE: Economic Analyses in Spinal Cord Injury Research Brian C. Chan, PhD Julio Cesar Furlan, MD, LLB, MBA, MSc, PhD, FRCPC	C/13 <i>Honolulu 1</i> COURSE: Instructional Course on Acute Management and Respiratory Care After Spinal Cord Injury Stephen McKenna, MD James D. Crew, MD Matthew Davis, MD
10:30 AM - 11:00 AM	Neuromodulation Symposium: Gait David Darrow, MD, MPH Matthias Krenn, PhD Igor A. Lavrov, MD, PhD		
11:00 AM - 11:10 AM	Stretch Break/Transfer to Next Session		
11:10 AM - 11:40 AM	<i>Tapa Ballroom 2-3</i> Neuromodulation Symposium: Upper Extremity Noam Harel, MD, PhD Chet Moritz, PhD Prithvi Shah, PhD	C/21 <i>Honolulu 2-3</i> COURSE: GLAHM Camp - Good Lives and Healthy Minds Bethany Lipa, MD Kristin L. DiTommaso, RN, BSN, CRRN Dana Johnson, DPT Madeleine Pittman, MS, OTR/L	C/30 <i>Honolulu 1</i> COURSE: Recent Innovations to Advanced Care, Research and Self Management of Urinary Symptoms and Urinary Tract Infection With Neurogenic Bladder Suzanne L. Groah, MD, MSPH Rochelle Tractenberg, PhD
11:40 AM - 12:10 PM	Neuromodulation Symposium: Autonomic Andrei Krassioukov, MD, PhD, FRCPC Aaron Phillips, PhD Charles Hubscher, PhD		
12:10 PM - 12:20 PM	Stretch Break/Transfer to Next Session		
12:20 PM - 1:20 PM	Lunch Presentation/STUDI and SCITT Update Spinal Trials, Understanding, Design and Implementation and SCITrials Toolbox Andrew Blight, PhD; John Chernesky; Jane Hsieh, MSc; Daniel Lammertse, MD		<i>Tapa Ballroom 2-3 and/or Palace Lounge</i>
1:20 PM - 1:50 PM	Neuromodulation Symposium: Training Lisa A. Beck, MS, APRN, CNS, CRRN Kendall Lee, MD, PhD Rebecca Martin, OTR/L, OTD		<i>Tapa Ballroom 2-3</i>
1:50 PM - 2:20 PM	Neuromodulation Symposium: Consumer Perspective Matthew Rodreick SCI Consumers		
2:20 PM - 2:30 PM	Stretch Break/Transfer to Next Session		
2:30 PM - 3:00 PM	<i>Tapa Ballroom 2-3</i> Neuromodulation Symposium: Industry Perspective Kristin Zhao, PhD Industry Representatives	C/04 <i>Honolulu 2-3</i> COURSE: Acute Flaccid Myelitis in Children - Epidemiology, Diagnosis, Medical Management and Rehabilitation Outcomes Suzanne Rybczynski, MD Cristina Sadowsky, MD Michelle Melicosta, MD Kaitlin McDonald, MOT, OTR/L	
3:00 PM - 3:30 PM	Neuromodulation Symposium: Group Discussion Audience and Panelists		
3:30 PM	Meeting Adjourns		

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Though he's hanging up his hat as ASIA President, Keith Tansey, M.D., Ph.D., FASNR, will continue to wear many hats as a leading spinal cord injury researcher and clinician. He is part of the team dedicated to advancing SCI research at MRC's Center for Neuroscience and Neurological Recovery. He also serves on the University of Mississippi Medical Center's faculty as a professor of rehabilitation medicine and as a physician in the Spinal Cord Injury Clinic at the Jackson VA Medical Center.



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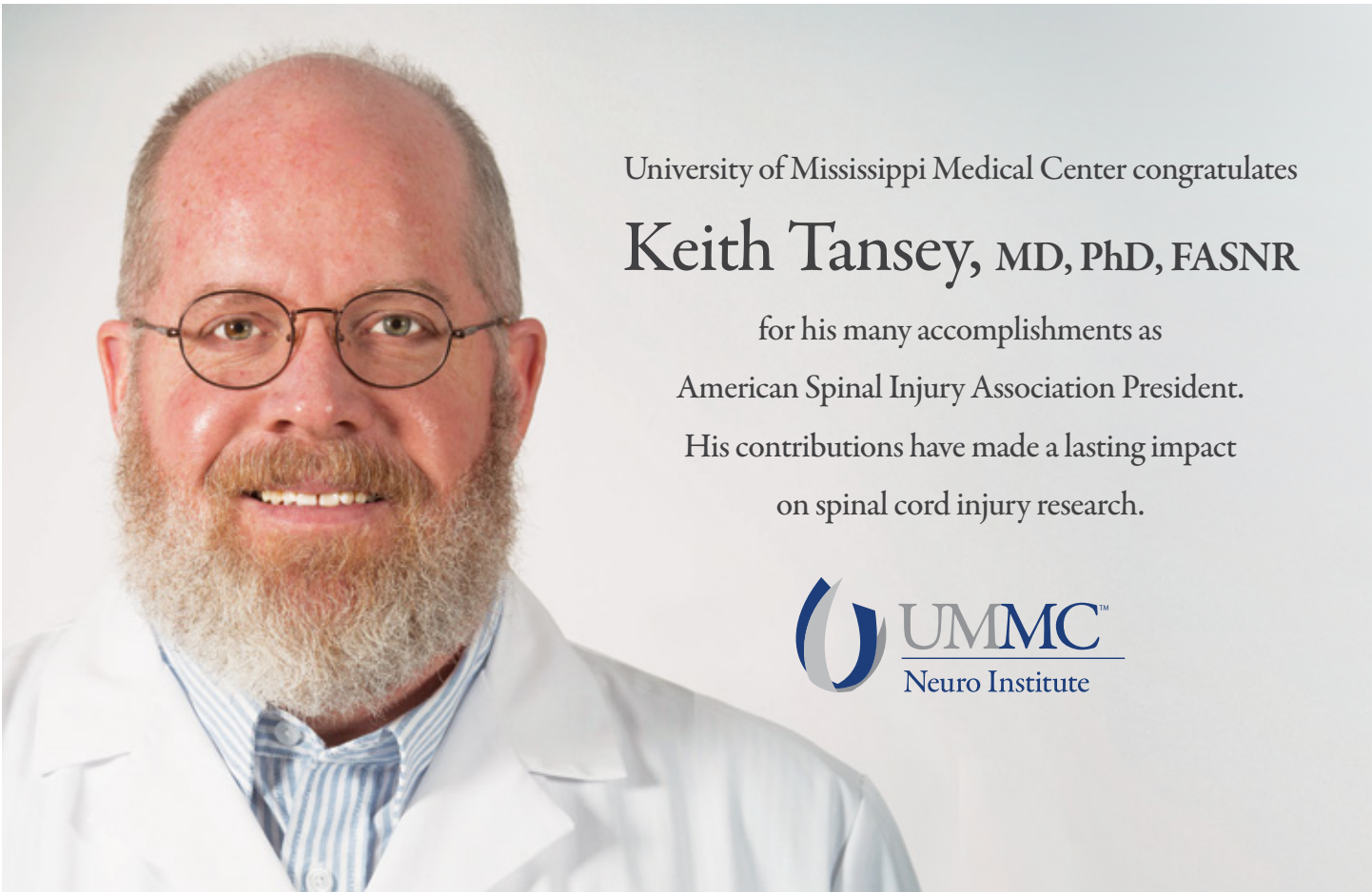


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The new Center for Outcomes Measurement at the Jefferson College of Rehabilitation Sciences, led by Mary Jane (MJ) Mulcahey, PhD, OTR/L will be a source for development of new measurement tools aimed at enabling us to better understand functional recovery following various neurological injuries.

– *Steve R. Williams, MD*
Dean, Jefferson College of Rehabilitation Sciences

Congratulations, Dr. K!

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Thank You Patty Duncan!

★ YEARS ★ of Support and Dedication to ASIA

Patty has been a keeper of institutional memory, a guiding force in management, a visionary for progress, and part of the very soul of ASIA. Without her contributions over 25 years, ASIA would be nowhere near the awesome organization it has become. Thanks Patty for all you have done and continue to do for ASIA.

~ Keith Tansey, MD, PhD, FASNR



Thanks Patty for 25 years of dedication and service to ASIA. Your efforts have been key to our success!

~ Daniel P. Lammertse, MD

I have learned so much while working with you Patty... and we have had a great deal of fun along the way. ASIA is so very lucky to have you!!!

~ Heather Russell, PhD

Patty, you have been the backbone of ASIA over the past 25 years. It has been an honor to work with you as an ASIA member and officer. Also want to thank you for introducing me to lemon drop martinis! :)

~ Larry Vogel, MD

Behind the great ASIA, there is an even greater Patty! Many thanks for your support, guidance and passion in the past and I look forward to working with you for the next 25 years.

~ Ruediger Rupp, PhD

Congratulations on 25 years with ASIA! You are truly the heart and soul of this organization. Your hard work, persistence and creative vision have made ASIA the wonderful organization that it is. You are an inspiration and a joy to know!

~ Anne Bryden, MA, OTR/L

Patty, Thank you for always being a competent, helpful & friendly leader of the ASIA staff. Keep up the great work

~ Bill Donovan, MD

You are Amazing Patty! Kudos for 25 years of wonderful work!

~ Marcalee Alexander, MD

A well deserved congratulations on 25 years with ASIA!!! You are the best in so many ways! Words cannot describe your years of service, love, devotion and going beyond the call of duty, to this organization. You have put your heart and soul into it! Love Forever!

~ Janice Tilley

Patty, Sincere thanks for all of your dedication and hard work on behalf of ASIA for 25 years. Your devotion to the organization and the field of spinal cord injury is matched by your commitment to treating everyone with respect and professionalism. With respect and admiration.

~ Steve Kirshblum, MD

Patty — my desk hasn't been the same without stacks of ASIA exams that need to be fixed!!! I miss your calls with scoring scenarios and questions. Your commitment to quality and your loyalty to ASIA is amazing. I miss you at Shepherd!! Congratulations on 25 years!

~ Shari McDowell, PT, DPT

To our dearest Patty, who made the ASIA family a family!

~ Isa McClure, PT, MAPT



Dear Patty, Thank you for 25 years of exceptional service to ASIA. You provided leadership and stability at a critical time in ASIA's history. Thank you also for your many years of friendship, laughter and guidance.

~ Adam Stein, MD

Patty is such a wonderful person. She has been instrumental in the success of ASIA in many ways; she has a unique skill set in helping design and execute scientific meetings. She has the perfect personality to interact with the physicians, other healthcare professionals, coworkers, and other business personnel. Patty, we appreciate you and all you have done.

~ Randal Betz, MD

Patty, Your heart is gigantic and your energy is contagious! Thanks for all you do for our organization and our field. Congratulations on 25 years of fantastic work for ASIA.

~ MJ Mulcahey, PhD, OTR/L

This southern belle has been the heart and soul of ASIA for so many years! She's a wonderful colleague and friend and here's wishing her a very happy ASIA Anniversary with best wishes for another 25 years!

~ Susan Charlifue, PhD

Dearest Patty, Frank Lloyd Wright once said: "... the price of success: dedication, hard work and an unremitting devotion to the things you want to see happen." In my mind, this is true reflection of your 25 years of dedicated work and commitment to ASIA. Looking forward to celebrating this occasion in Honolulu. Thank you!

~ Andrei Krassioukov MD, PhD, FRCPC

Thank you for your dedication, Patty!

~ Kim Anderson, PhD

Blessings to you, Patty, our administrative society taproot who has the biggest heart and energy to spare! Thanks for bringing wisdom and FUN to us all along your 25-year ASIA journey.

~ Maureen Miner, MD

Thank you Patty for being a central leader of ASIA and a facilitator of so many initiatives and innovations. The number of times that you have helped all of us succeed are countless.

~ John Steeves, PhD

Patty, congratulations on 25 years! Thank you for all your hard work and dedication to ASIA and all its members. I have truly appreciated all the support and guidance you have provided me. Your strong leadership, passion, and sense of humor energize those around you. It has been a pleasure working with and learning from you, and I look forward to many more adventures ahead.

~ Kathy Zebracki, PhD

Patty, Emerging from behind the scenes to leadership, you've seen it all and been there for us all. Thank you for your quarter century of dedication and devotion to ASIA and its members.

~ Naomi Kleitman, PhD

Patty is always available to keep the ASIA ship afloat and keeps the best interests of the organization in mind. As a committee member and chair, I appreciate the fact that she is so responsive when questions arise!

~ Linda Jones, PT

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- ◆ A specialized ASIA-certified faculty for serving the unique needs of industry
- ◆ Thoroughly developed and comprehensive training materials
- ◆ Standardization among all assessors, regardless of specialty or department
- ◆ Confidence that your SCI clinical trial site has received accurate and systematic training in the ISNCSCI examinations and classification
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For more information, please contact **Patty Duncan** at patty@asia-spinalinjury.org

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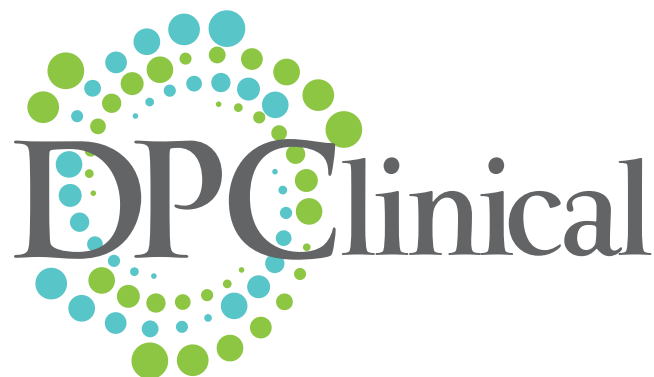
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