



Global Neuro



NeuroTrauma2018

The 3rd Joint Symposium of the International and National Neurotrauma Societies and AANS/CNS Section on Neurotrauma and Critical Care  
AUGUST 11-16, 2018 **TORONTO, CANADA**

# EVENT PROGRAM

Global Neuro Course: State of the Art on  
Clinical Management of Brain and Spine Trauma

**August 11, 2018, Toronto, Canada**

# Welcome: Greetings from the Chairs

## Michael Fehlings & Geoffrey Manley

It is our pleasure to welcome you to the Neuro Course as a pre-course for the 3rd Joint Symposium of the International and National Neurotrauma Societies and AANS/CNS Section on Neurotrauma and Critical Care. Such a great learning opportunity would not be possible without the generous support provided by Global Neuro, NREF, and AOSpine. These organizations are truly at the forefront of advancing neuro care worldwide. By providing neuro care specialists with excellent opportunities to share knowledge, network and innovate; courses such as these are invaluable for neurosurgeons and members of associated disciplines. We have done our best to create a course that covers a range of topics relevant to TBI and SCI care. The effects of these debilitating conditions on patient quality of life are well known, and this course serves as a means to engage you, the attendee, to enhance neurocritical knowledge and ensure patients are receiving the best care possible. We look forward to a day of learning, networking and great discussions. From both of us, welcome to the Neuro Course and we hope it is a great experience.



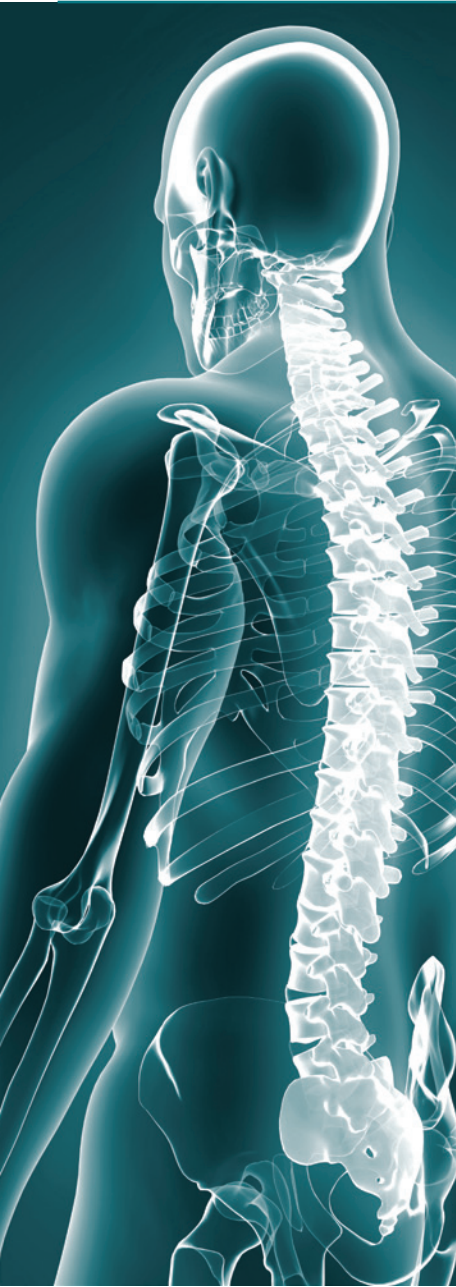
**Dr. Michael Fehlings MD PhD FRCS C FACS**  
 Toronto Western Hospital  
 University of Toronto  
 Toronto, Canada



**Dr. Geoffrey Manley MD PhD**  
 San Francisco General Hospital  
 University of California, San Francisco  
 San Francisco, United States

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## Global Neuro

Global Neuro is excited to welcome you to the Neuro Course in beautiful Toronto. At the start of 2018, AONeuro transitioned to become an independent entity named Global Neuro. This strategic move ultimately allows us to broaden our geographic reach to neuro professionals and to form new partnerships. These changes provide a clear path forward to improve the educational and practical experiences in patient care and outcomes through rigorously prepared and evaluated curricula. At Global Neuro, we believe medicine, neurological care, and recovery is too complex to depend upon a single discipline. As such, collaboration is required to make the greatest impact on the progress and outcomes of our patients. Global Neuro strives to build collaborations with regional, national, and international societies and organizations to deliver symposia and courses at congresses and annual meetings. These partnerships enable us to provide the best formats possible. We hope this program meets your expectations as it is based on continuous development, study, evaluation, and discussion. Please join our network of professionals as we work together to improve the results in neuro care and rehabilitation for all our patients.

Warm Regards,



**Paul N. Manson MD**  
Chairman of Global Neuro



## Neurosurgery Research and Education Foundation

The Neurosurgery Research and Education Foundation (NREF) is pleased to support the Neuro Course at this year's 3rd Joint Symposium of the International and National Neurotrauma Societies and AANS/CNS Section on Neurotrauma and Critical Care. Core to our values is the relentless quest to enhance the lives of patients by advancing neurological care. We are dedicated to educating neurosurgeons of all career stages and spreading best practices that are improving the lives of our patients. This course is an excellent opportunity to bring together neurosurgeons to discuss the current state of neurosurgery regarding TBI and SCI, while simultaneously looking to the future of traumatic neurosurgical care. This course provides a unique blend of fundamental research in the basic and clinical sciences pertinent to neurosurgery, as well as case presentations and expert opinions. We hope this course is informative and provides neurosurgeons with a platform for open learning and discussions that will contribute to the growth of our discipline, and ultimately result in improvements to patient care.

## AOSpine

Welcome to the Neuro Course put on in conjunction with the 3rd Joint Symposium of the International and National Neurotrauma Societies and AANS/CNS Section on Neurotrauma and Critical Care. AOSpine strives to lead the global academic community in innovative education and research opportunities in spine care, inspiring lifelong learning and improving patients' lives. The curriculum of this course supports our principles of research, education and community development. We are proud to have supported many of the speakers presenting during the course, and it is important to see this research shared with our international spine community. The presentation of our funded work

during this course highlights our commitment to bettering spine care worldwide. The course is designed to inform attendees about recent advancements in spinal cord injury care and management and covers a wide range of related topics. Further, the placement of the Neuro Course before the NeuroTrauma2018 Meeting commences provides course attendees with the opportunity to continue productive discussions throughout the week. We are excited to be a part of this course, and we hope everyone in attendance benefits from this great opportunity.

## Course Description

This course covers the current best strategies and considerations for managing brain and spine trauma patients and is based on competencies defined in Global Neuro and AOSpine curriculums. The content is delivered using multiple methods. Comprehensive lectures concentrate on the understanding of core material. Interactive case presentations further deepen this knowledge and enrich the discussion in trauma management. Case-based discussions link the lecture material and practical skills with the problems encountered in clinical practice.

## Goal of this Course

The State of the Art on the Clinical Management of Brain and Spine Trauma course covers the theoretical basis and principles for managing traumatic brain and spine injuries and making proper decisions in the complicated cases.

## Target Participants

This course has been developed for:

- Neurosurgeons interested in trauma
- Spine surgeons
- Critical care physicians
- Neurosurgery and critical care nurses
- Mid-Level practitioners
- Neurosurgery residents and fellows
- Translational researchers interested in learning about clinical aspects of neurotrauma

## Learning Objectives

Upon completion of the program, participants should be able to:

- Review basic science and clinical translational advances in traumatic brain injury, cranial trauma, and spinal cord injury
- Apply evidence-based decision making to the management of patients with TBI and SCI
- Select the best operative and non-operative treatment for each patient
- Discuss advances in the critical and neurocritical care of TBI in adults and children
- Assess and manage patients with spinal trauma and spinal cord injury based on current guidelines

## Event Organization

### NeuroTrauma 2018

The 3rd Joint Symposium of the International and National Neurotrauma Societies and AANS/CNS Section on Neurotrauma and Critical Care in Toronto, Canada will be a wonderful occasion of sharing science, preclinical and clinical lessons, and visions for the future of neurotrauma research and care. This symposium has served as the premier forum for the exchange of ideas and information related to traumatic brain injury (TBI) and spinal cord injury (SCI), with a strong focus of the meeting to integrate clinical, translational, and basic science neurotrauma-related information. The format of the symposium will consist of informative discovery, translational, and clinical sessions and workshops, as well as programs for students and early career investigators. Plenary sessions, workshops, and poster sessions are being planned to focus on topics of current research and practice issues. A public lecture, patient perspective presentations, and networking opportunities will round out the program.

The meeting will be co-hosted by the International & National Neurotrauma Society and the AANS/CNS Joint Section on Neurotrauma and Critical Care. This combination of expertise allows for pre presentations that integrate state-of-the-art clinical, translational and basic science information on the consequences of damage to the nervous system. This is an exciting time in neurotrauma research and care and we hope to see you in Toronto for the Neurotrauma 2018 Symposium.

## Event Information

### CME 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 VCU Health Continuing Medical Education and International Conference Services, Ltd.

VCU Health Continuing Medical Education is accredited by the ACCME to provide continuing medical education for physicians. VCU Health Continuing Medical Education designates this live activity for a maximum of **8.5 AMA PRA Category 1 Credits™**. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

### Course certificate

The course certificates can only be provided if the participant attends the entire event (100%) and will be available at the end of the event.

### Evaluation guidelines

All Global Neuro events apply the same evaluation process, either online (pre- and post-event evaluation) or/and on-site by audience response system (ARS) or paper and pencil questionnaires. This helps Global Neuro to ensure that we continue to meet your training needs.

### Global Neuro

For more information on global neuro please visit [www.globalneuro.org](http://www.globalneuro.org).

### Intellectual property

Event materials, presentations, and case studies are the intellectual property of the event faculty. All rights are reserved. Check hazards and legal restrictions on [www.aofoundation.org/legal](http://www.aofoundation.org/legal).

Recording, photographing, or copying of lectures, practical exercises, case discussions, or any course materials is strictly forbidden. Participants violating intellectual property will be dismissed.

The Global Neuro Foundation reserves the right to film, photograph, and audio record during their events. Participants must understand that in this context they may appear in these recorded materials. The Global Neuro Foundation assumes participants agree that these recorded materials may be used for Global Neuro marketing and other purposes and made available to the public.

### Security

Security checks may be conducted at the entrance of the building. Wearing of a name tag is compulsory during lectures, practical exercises, and group discussions.

### No insurance

The event organization does not take out insurance to cover any individual against accidents, theft or other risks.

### Mobile phone use

Use of mobile phones is not allowed in the lecture halls and in other rooms during educational activities. Please be considerate of others by turning off your mobile phone.

### Dress code

Casual

## Event Venue

### The Westin Harbour Castle

1 Harbour Square, Toronto, ON, M5J 1A6, Canada

[www.westinharbourcastletoronto.com](http://www.westinharbourcastletoronto.com)

## Invited Faculty

### International Faculty

Andrew Maas	Antwerp University Hospital	Belgium, Antwerp
Anthony Figaji	University of Cape Town	South Africa, Cape Town
Peter Hutchinson	University of Cambridge	U.K., Cambridge
Mark Kotter	University of Cambridge	U.K., Cambridge

### Regional Faculty

Bizhan Aarabi	University of Maryland	USA, Baltimore
Dalton Dietrich	University of Miami	USA, Miami
James S Harrop	Jefferson Hospital for Neuroscience	USA, Philadelphia
Gregory Hawryluk	University of Utah	USA, Salt Lake City
Shekar Kurpad	Medical College of Wisconsin	USA, Milwaukee
Paul Manson	John Hopkins School of Medicine	USA, Baltimore
David Okonkwo	University of Pittsburgh	USA, Pittsburgh
John Povlishock	Virginia Commonwealth University	USA, Richmond
Shelly Timmons	Penn State Hershey Neurosurgery	USA, Hershey

### National Faculty

Andrew Baker	St. Michael's Hospital	Canada, Toronto
Jamie Hutchinson	University of Toronto	Canada, Toronto
Brian Kwon	Vancouver Spine Surgery Institute	Canada, Vancouver
Eve Tsai	Ottawa Hospital Research Institute	Canada, Ottawa
Jefferson Wilson	University of Toronto	Canada, Toronto

## Saturday, August 11, 2018 Program

TIME	AGENDA ITEM	FACULTY
07:00-07:45	Registration and Coffee	All
07:45-08:00	Welcome Remarks and Course Introduction	Michael Fehlings Geoff Manley
08:00-08:15	Welcome from: Global Neuro, AONA, AOSpine, NREF	Paul Manson James Harrop Shelly Timmons
<b>08:15-12:00</b>	<b>Traumatic Brain Injury and Cranial Trauma</b>	<b>Moderator: Geoff Manley</b>
08:15-08:45	Basic Science of Traumatic Brain Injury: State of the Art	John Povlishock
08:45-09:15	Clinical Translational Advances in Traumatic Brain Injury	Geoff Manley
09:15-09:45	Advanced techniques in cranial reconstruction	Paul Manson
09:45-10:15	Decompressive Craniectomy	Peter Hutchinson
10:15-10:30	Coffee and Networking break	
10:30-11:00	Critical Care of Traumatic Brain Injury in Adults and Children	Andrew Baker Jamie Hutchinson
11:00-11:30	Management of traumatic brain Injury in children	Anthony Figaji
11:30-12:30	Case-based Panel Discussion with a focus on Neurocritical care decision management	Moderator: Shelly Timmons
12:30-12:45	Networking break and pick up of boxed lunch	
12:45-13:30	Luncheon Seminars An international perspective on traumatic brain injury (15min) Biomarkers for Spinal Cord Injury (15min) Discussion (15min)	Andrew Maas Brian Kwon
<b>Module 2</b>	<b>Spine Trauma and Spinal cord injury</b>	<b>Moderator: Michael Fehlings</b>
13:30-14:00	Basic Science of SCI: State of the Art	Dalton Dietrich
14:00-14:30	Clinical Translational advances in Spinal Cord Injury	Michael Fehlings
14:30-15:00	Assessment & Management of Spinal Cord Injury	James Harrop
15:00-15:30	Critical Management of Spinal Cord Injury (including review of the AO Spine Guidelines)	Greg Hawryluk
10:15-10:30	Coffee and Networking break	
15:45-16:30	Role and Timing of Surgery in Spinal Cord Injury Moderator: Michael Fehlings Faculty Panel: Bizhan Aarabi, James Harrop, Eve Tsai, Jefferson Wilson, Brain Kwon, Mark Kotter, Shekar Kurpad	
16:30-17:30	Management of complex thoracolumbar spine trauma Moderator: James Harrop Faculty Panel: Jefferson Wilson, Bizhan Aarabi, Brain Kwon, Mark Kotter, David Okonkwo, Eve Tsai	
17:30-19:00	Networking Cocktail Reception	



Global Neuro

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