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Congress Details

The Canadian Neurological Sciences Federation hosts an annual Canadian Congress with four days of accredited scientific courses to assist our members, and others, with their Continuing Professional Development and Maintenance of Certification.

This is a collegial meeting providing multidisciplinary courses relevant to all neuroscience specialties.

2018 in the new Halifax Convention Centre
1650 Argyle Street, Halifax, Nova Scotia
Sunday, June 24 to Wednesday, June 27

QUESTIONS?

Canadian Neurological Sciences Federation

Membership, sponsorship, exhibiting at Congress:
143N - 8500 Macleod Trail, SE, Calgary, AB T2H 2N1
T: 403-229-9544 F: 403-229-1661
donna-irvin@cnsfederation.org

Intertask Conferences

Registration, speakers, exhibitor logistics:
275 rue Bay Street, Ottawa ON K1R 5Z5
T: 613-238-6600 F: 613-236-2727
cnsf@intertaskconferences.com

For dates and locations of past and future meetings, view our Congress Dates page

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2018 Congress Registration

Onsite Registration & Check-In Desk for Delegates and Exhibitors

Halifax Convention Centre
Convention Hall Level – Atrium

Hours of Operation:	
Saturday, June 23	**19:00 – 21:00**
Sunday, June 24	**07:00 – 18:00**
Monday, June 25	**07:00 – 18:00**
Tuesday, June 26	**07:00 – 18:00**
Wednesday, June 27	**07:00 – 11:30**

Each person attending the CNSF Congress must complete the registration process.

This includes invited speakers, chairpersons, exhibitors/sponsors and all delegates.
Eligible Course Chairs, Exhibitors/Sponsors and Speakers will receive an email with instructions and a code required to complete their registrations.

Registration Fees

Registration fees and social activity fees are subject to applicable taxes (15% HST in Nova Scotia).

Registration is only confirmed upon receipt of payment.

Eligibility for member registration rates:

Please note that any new membership applications must be complete and must be allowed 2 weeks for processing. New memberships are not considered Active until membership dues payment has been received in the CNSF office.

The Congress registration system will not be able to recognize you as a member until this process is complete. Non-Member rates will apply unless this process has been completed in advance.

Application forms are available on each society page on the CNSF website http://www.cnsfederation.org/

Full Registration Includes:

- All sessions Sunday to Wednesday
- All official lunches and breaks
- Exhibitor's Reception
- Course Notes

One-day Registration Includes:

- Admission to all sessions the day of your registration
- Official lunch and breaks the day of your registration
- Exhibitor's Reception (if you are registered to attend the Congress on Monday)
- Course Notes

Delegate Badge Designation

- **Blue** - CNSF Members
- **Red** - CNSF Board Members
- **Bronze** - CNSF Committee Members
- **Burgundy** - Invited Guests
- **Yellow** - Speakers
- **Black/Grey** - Exhibitor/Sponsor
- **Green** - Non-Member

REGISTRATION POLICIES

Payment Policy
Registration fees must be paid in full by credit card (VISA, Mastercard or American Express) at time of registration.

Membership Status
To be eligible for the member registration rates, please ensure your Canadian Neurological Society (CNS), Canadian Neurosurgical Society (CNSS), Canadian Society of Clinical Neurophysiologists (CSCN), Canadian Association of Child Neurology (CACN) or Canadian Society of Neuroradiology (CSNR) membership dues are paid in full prior to registering for the CNSF Congress.

You will be required to input your membership number as part of the registration process. Membership status is verified and in the event your membership is not current, non-member registration rates will apply.

Members that require assistance with their membership number or verification of their membership status can contact CNSF Membership Services by email or at (403) 229-9544.

Non-Member Residents, Medical Students and Graduate Students
Proof of status must be provided within 72 hours of submitting registration. Your registration is considered incomplete until your proof of status is received and verified.

Acceptable Proof of Status:

- recent transcript;
- letter from your Program Director; OR
- active Student ID

Send your documents by email to cnsf@intertaskconferences.com

Registration Cancellations/Refunds

Until May 15, 2018 (with penalty) – Registration fees are refundable less a $50 administration fee (plus tax) for cancellation requests received by May 15, 2018. Send your request to cnsf@intertaskconferences.com.

After May 15, 2018 (non-refundable) - Registration fees and social activities are non-refundable; however, you may make a substitution within the same registration category.

In the event of cancellation or non-attendance due to an emergency, submit your request in writing (along with supporting documentation) to cnsf@intertaskconferences.com no later than July 21, 2018. Requests received after this date will not be considered. Requests will be reviewed and evaluated on a case by case basis.

Substitutions
Substitutions can be made within the same registration category. Send your request to cnsf@intertaskconferences.com, and include the replacement's name, telephone number and email address.

Photo Reproduction
The CNSF reserves the right to use any photo or video image recorded at the CNSF Annual Congress. By registering for the Congress, you hereby acknowledge and agree that CNSF may photograph you at this event, as well as use the photographs in any publication or media for future educational and promotional activities/materials, without further notification or any compensation to you.

For example, the selected images will assist in the promotion of future CNSF events and may be used in professional displays, advertisements, printed publications, and/or on the CNSF website. You also acknowledge and agree to waive any right to inspect or approve any future educational and promotional activities/materials that may include photographs and/or videotapes of you.

Children
The CNSF Congress is a professional development conference and as such, **insurance and liability issues restrict us from allowing children in any of the Congress meeting space;** including the Exhibit hall, lecture theatres and all meeting rooms.

Thank you for your compliance and your understanding.

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Congress Maps

HALIFAX CONVENTION CENTRE

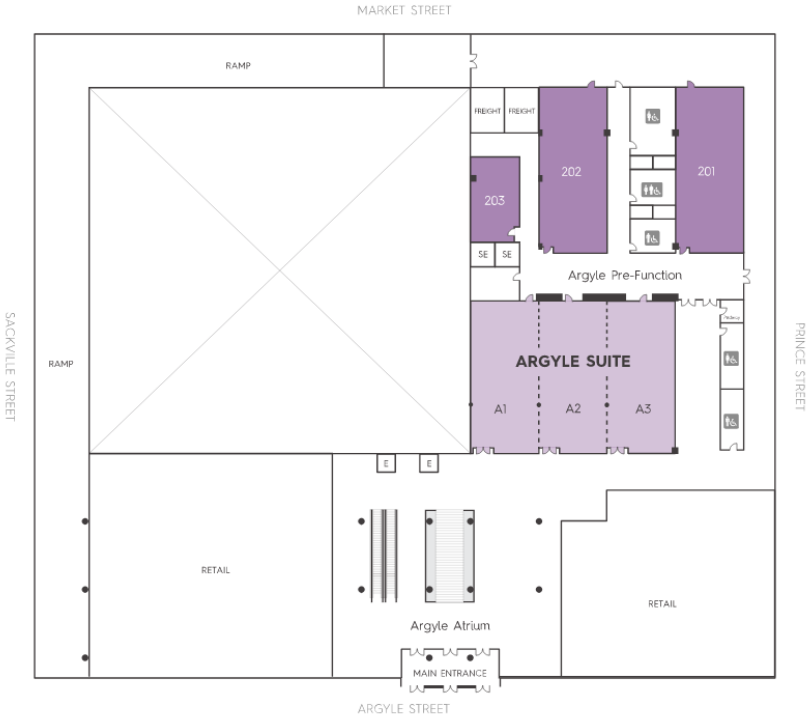
Experience famous Maritime hospitality in the heart of a thriving, cosmopolitan city. Located at **1650 Argyle Street**, you'll find the best local dining, and fantastic arts and culture, all within an easy stroll.

Most of our courses and sessions will be help right here.

Convention Hall Level

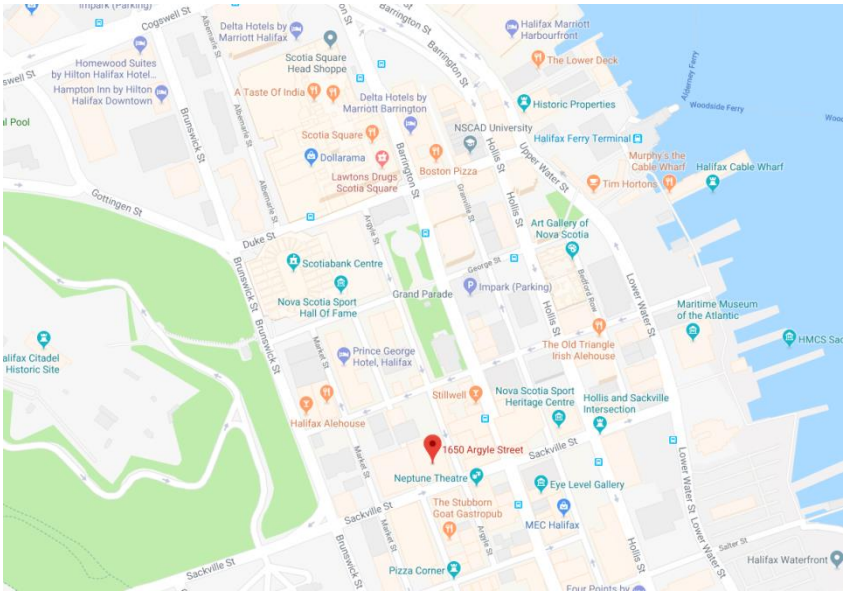
HCC – Summit Level

HCC – Argyle Level



Additional meetings (as noted in the program) may be held across the street at the **Prince George Hotel** – Windsor room.

Downtown Halifax



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Halifax, Nova Scotia

Travel	Tourism
• Air Canada	• Tourism Nova Scotia
• WestJet	• Discover Halifax
• Local Transportation	• Things to do in Halifax

Great Ideas for Pre and Post Congress

Halifax Region

Enjoy festivals and events, DELICIOUS culinary experiences and the BEST shopping east of Quebec. PLUS:

- Get outdoors and enjoy East Coast views with one (or more!) of those TOP 5 HALIFAX HIKES
- Want to REALLY feel like a local? Here's 6 Halifax HIDDEN BARS!
- Do you know the story of Nova Scotian folk-artist Maud Lewis? Check out 13 facts you may not know!
- Catch a SUNRISE or SUNSET in Halifax - especially from one of Halifax's 7 can't-miss views!

South Shore

Yarmouth & Acadian Shore

Bay of Fundy & Annapolis Valley

Northumberland Shore

Cape Breton Island

Eastern Shore

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Upcoming Congress Dates

2018
Sunday, June 24 to Wednesday, June 27
Halifax, Nova Scotia

2019
Sunday, June 16 - Wednesday, June 19
Montreal, Quebec

2020
Sunday, June 7- Wednesday, June 10
Banff, Alberta

2021
Tuesday, June 15 - Friday, June 18
Toronto, Ontario

2022
Sunday, June 26 - Wednesday, June 29
Montreal, Quebec

2023
Sunday, June 4 - Wednesday, June 7
Banff, Alberta

Past Congress Dates and Locations

- Victoria, BC June 20-23, 2017
- Quebec City, QC June 21-24, 2016
- Toronto, ON June 9 – 12, 2015
- Banff, AB June 3 – 6, 2014
- Montreal, QC June 11 – 14, 2013
- Ottawa, ON June 5 – 8, 2012
- Vancouver, BC June 15 – 17, 2011
- Quebec City, QC June 8 – 11, 2010
- Halifax, NS June 9 – 12, 2009
- Victoria, BC June 17 – 20, 2008
- Edmonton, AB June 19 – 22, 2007

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Chair and Speaker Guidelines

CNSF Congress, June 24-27, 2018 Halifax NS

Thank you for agreeing to participate in our Congress and share your knowledge with the wider CNSF community!

Carefully review the following important information for developing your Congress session. It is the responsibility of the Course Chair to communicate CNSF policies, to potential speakers.

Questions on documents below please contact:
Tricia Atkins: speakers@intertaskconferences.com 613-238-4075, ext. 277.

Questions on your course's scientific content or focus, please contact either:
Scientific Program Chair, Alex Henri-Bhargava at: alexhb@uvic.caor
Vice-Chair, Joe Megyesi at: joseph.megyesi@lhsc.on.ca

Questions on Live Polling please contact:
Nicole Rozak: nicole-rozak@cnsfederation.org 403-229-9544, ext. 104

Speaker Ready Room: Halifax Convention Centre – Room 105

Hours of Operation	
Saturday, June 23	16:00-20:00
Sunday, June 24	07:00-19:00
Monday, June 25	07:00-17:00
Tuesday, June 26	07:00-17:00
Wednesday, June 27	07:30–12:30

Speakers are asked to load their PowerPoi1nt presentations at least 3 hours prior to their course.

Each person attending the CNSF Congress must complete the registration process.
This includes invited speakers, chairpersons, and all delegates.
If you have been provided with a special delegate registration code, please make sure to use this when registering.

AV at the Congress
Basic AV provided at the Congress includes Laptop (PC), LCD projector and screen, Laser pointer, Microphone.

- If additional AV is required Chairs are to submit a request for approval before May 14, 2018.
- Speakers are requested to use the laptop projector provide by the Congress. However, if you require use of your own lap top, please email speakers@intertaskconferences.com before May 29, so procedures may be communicated in a timely manner.

Course Notes
Please assist delegates enhance their learning ability by providing course notes for your session.

See Complete Details for Chairs and Speakers Below

Deadline Dates:
You will receive an email a few weeks before each item is due; along with additional instructions as appropriate.

***Return all forms, course write-up and course notes to:** speakers@intertaskconferences.com

Item	Deadline	Resource/Instructions*
Course Chair Agreement	Friday, December 15, 2017	Chair Agreement Review, type in name and date
Chair & Speaker Contact List	Friday, January 5, 2018	Speaker Contact Template Provide contact information for each speaker
Disclosure Forms	Friday, January 12, 2018	Speaker Disclosure Form
Course write-up including: • Description • Objectives • Audience • Learning Level • Learning Format • CanMeds Roles • Agenda	Friday, January 19, 2018 If full course content outline is not available, submit what is confirmed. We need to enter all session information in order to have registration go live in late February. This content is required for accreditation by the Royal College.	Course Write-up Template & Sample Complete information required in the template
Course Notes	We encourage all speakers to submit their Course notes in advance. (PDF)	Course Notes are uploaded to our Congress 'Course notes' website. If you would like your Course notes available for delegates to view in advance of your session, please ensure you submit them at least one day prior to your session presentation.

Speakers' Presentations	Speakers are asked to load their PowerPoint presentations at least 3 hours prior to their session in the Speaker Ready Room onsite.	Sample Speaker Slides These can be used as 'Course Notes' for inclusion to our Congress website. Please ensure you submit them at least one day prior to your session presentation
Additional AV Requirements	Request by Monday, May 14, 2018	

Course Chair Overview

Every session must have a chair. If the Chair is also acting as a speaker, this person must be included within the list of speakers. It is preferred that Course Chairs are a member of at least one CNSF Society (CNS, CNSS, CACN, CSCN, CSNR); however the CNSF recognizes this is not always the case or in the best interests of the Congress, particularly for chairs from outside of Canada or who are not neurosurgeons, neurologists, or neuroradiologists.

This is a volunteer position. No honorarium or expenses are paid except in special conditions listed in course budget below.

Chairs must register for the Congress, however, the day of their course/session is free and they will be provided with a discount to attend the remainder of the Congress.

All courses are 2.5 hours with no coffee break. Morning courses will have coffee available 30 minutes prior to commencement. It is the imperative of the course chair to maintain the course duration within the allotted time, including any time allotted for discussions / question and answer. This is very important so that timing of congress sessions may be co-ordinated smoothly.

Every session must have a chair. If the Chair is also acting as a speaker, this person must be included within the list of speakers.

If you envision a more traditional format for your session consisting of invited speakers who each lecture on specific topics, please consider maintaining the following ratios:

- 1-2 hour sessions – 2-3 speakers
- 2.5 hour sessions – up to 4 speakers

Course chairs may consider a more interactive workshop-style format, which could require more speakers. We do not want to encourage having many speakers who are all rushed to give very short talks, but if your format is best suited to a greater number of participants, please do discuss this with the program committee chair.

Additional Speakers do not have to be a member of CNSF. However, speakers who are Canadian neurosurgeons, neurologists, or neuroradiologists are encouraged to consider membership.

This is a volunteer position. No honorarium or expenses are paid except in special conditions listed in course budget below.

Speakers must register for the Congress, however, the day they speak is free and they will be provided with a discount to attend the remainder of the Congress

Registration
Eligible chairs and speakers will receive an email in February offering the day of their Course/session free or a discount to attend the entire Congress. **Note: Due to the nature of the Clinical Case Study sessions, the Lunch 'n Learns and the Co-developed Symposia, there is no Congress registration discount available to their chairs and speakers. Chairs and speakers for these sessions must register for the Congress at regular rates.**

Information regarding the official Congress hotel will be available in February.

Course Budget
ONLY Chairs and Speakers who are not practicing Canadian neurologists, neurosurgeons or neuroradiologists are provided economy flight and 2 nights' accommodation and are provided registration (one day free/ Congress at a discounted price). **The Course budgets allow for ONLY one of these Speakers per Course; other special circumstances are considered such as courses developed by individuals who are not neurologists, neurosurgeons or neuroradiologists. Requests must be made in writing to Dan Morin.**

Evaluations
Courses will be evaluated by Congress delegates and CNSF CPD Auditors to ensure compliance with Royal College MOC Standards

Upon receipt of the signed Chair Agreement, the CNSF will provide previous Congress Evaluation Summaries for your course, if available, in order to assist with planning. Where Evaluations are not available Chairs are encouraged to dialogue with the program committee members who were responsible for the selection of session topics.

Please encourage delegates to complete evaluations as the CNSF program and scientific committees take evaluations into consideration when determining which courses to offer in the upcoming year.

Each course/session room will be equipped with**:** a laptop, LCD projector & screen, laser pointer, microphone and speakers. Speakers requiring additional AV must inform the CNSF, by May 14, 2018, to determine if budget is available for additional requests.

Accreditation by the Royal College
As the Congress is accredited as a Section 1 Learning Activity with the Royal College, **sessions must have at least 25% interactive content**. At a minimum, this may take the form of formal question-and-answer periods during the session, which traditionally occurs within the expert lecture format. Congress attendees have strongly indicated their desire for even greater interactivity in Congress course sessions. Some alternative presentation formats are offered for your consideration – please refer to Live Polling / Alternative formats below.

SPC Chair, Dr. Alex Henri-Bhargava, would be pleased to discuss your course proposal with you at any time (alexhb@uvic.ca)

Speakers Overview
Course Notes are uploaded to our Congress 'Course Notes' website. They are highly valued and always requested and sought after by Congress delegates. Your submission of Course Notes is therefore greatly appreciated!

Course Notes Submission Instructions:

- We encourage all speakers to submit their Course notes in advance to speakers@intertaskconferences.com
- To have your Course notes available for delegates to view in advance of your session, or during your session, please ensure that you submit them at least one day prior to your session presentation
- Please submit your Course Notes in PDF
- Save the file using your first and last name: firstname_lastname_course title
- If there are multiple documents for one session/course, ensure to clearly identify the order in which the documents should be saved into one file
- If submitting Journal articles or other copyrighted information, it is the responsibility of the Speaker to obtain written permissions. The CNSF assumes that all materials provided have the necessary waivers. Please keep copies of waivers on file in case of audit.

Speaker Presentations are the slides that you plan on using during your talk.

Speaker Presentation Submission Instructions:

- Please follow PowerPoint order of information as listed below
- Load your presentation in Speaker Ready Room at least 3 hours in advance of your session
- If you would like to use your Speaker Presentation materials for the delegates' Course Notes website instead of providing separate Course Notes, please submit them to the Speaker Ready Room on-site at least one day prior to your session.

PowerPoint - Order of Information:

1) Cover Page - Title, author name and affiliations – first slide
2) Learning objectives – second side
3) Speaker disclosure statement – third slide ****Speakers must include a Disclosure Statement on the 3rd slide of their presentation.**
4) How to access "Live Poll – Audience Response System" - **if utilizing this feature; see below.**
5) Course materials
6) References - if any
7) Figures - if any
8) Speakers must allow at least 20% of their presentation time for questions and feedback from the audience.
9) At the end of the Course/Session, Chairs are asked to remind the audience to fill in the Specific Course Evaluation through the link that the Secretariat has provided.

Live Polling – Audience Response System

The CNSF can offer you the option to incorporate Live Polling "real-time" questions into your speaker presentation through the CNSF Congress Event App. Your session attendees can respond to questions in real-time from their mobile device or through a web link. **Please keep in mind that you – as the speaker – will run the live poll during your presentation through a web portal.**

To see how the Guidebook Live Poll works please watch the following reference video: https://www.youtube.com/watch?v=ps_B7nzrir8
If you are interested in the 'Live Poll - Audience Response System' please contact: nicole-rozak@cnsfederation.org

Alternative course presentation formats:

You may want to consider whether your course lends itself to a different format than the traditional set of back-to-back lectures. Some examples of alternative formats:

1) Case-based discussions. These are held in high regard by course delegates. If your topic is particularly clinical, consider anchoring your didactic content to clinical cases to make the clinical application of your course material more immediate. Course chairs can consider encouraging their speakers to integrate an illustrative clinical case along with their talks. Course chairs can also consider developing out a single exemplary clinical case that is woven throughout all of the talks and helps to tie them together.
2) Workshop formats. Workshops allow delegates to directly manipulate the information being presented to them leading to higher knowledge retention. Examples of topics that lend themselves particularly well to workshop formats include topics on methodologies such as "critical appraisal of neurosurgical literature" or on examination techniques such as "how to perform a neuro-ophthalmological exam." In a workshop format, didactic lectures will be complemented by breakout groups with facilitators. In the first example, the facilitators would go through the exercise of critically appraising an article with small groups of delegates. In the second example, a series of stations could be set up around the room where delegates could rotate through and practice different parts of the exam with workshop facilitators.

Tips to make your lectures more interactive

Traditional lecture formats are acceptable and may be preferred for certain topics. However, there are methods to increase interactivity within traditional lecture formats.

At the most basic level, you should ensure that your courses contain enough time set aside for questions and answers from the audience (25%). This can either take the form of a Q&A section after each individual lecture, or a panel Q&A at the end of the entire course, or both. Speakers are encouraged to trim off some of their material if they fear there will not be sufficient time for lectures. More adventurous lecturers may want to consider incorporating "real-time" questions from the audience into their talks. **Please see section on Live Polling above.**

There are many "interactive classroom" strategies that can be employed to move beyond the standard Q&A. One of these is involving audience members to think actively about your material by interspersing quiz questions throughout your presentation. This format is particularly useful when coupled with case discussion. Such questions can occur with a simple show of hands, but incorporating the use of an audience response system where audience members can see their peers' answers is a particularly useful strategy. **We strongly encourage you to include audience response questions into your presentations. Please consider adding slides to your presentation that include multiple choices, true/false, or other similar questions for the audience into your presentation. Please see section on Live Polling above.**

Please send any feedback regarding these tips or any questions regarding promoting interactivity in your courses to the chair of the Scientific Program Committee, Alex Henri-Bhargava (alexhb@uvic.ca)

Planning Teams are encouraged to integrate the following content into their courses, as appropriate:

- **Multi-disciplinary Themes**
  Please (1): view the Congress schedule to ensure concurrent courses do not compete with each other e.g. Epilepsy and EEG or EEG and EMG, (2): work with other Chairs directly if integrating multi-disciplinary perspectives. This will minimize duplication.

- **CanMEDs Roles**
  Congress Chairs and Speakers, please incorporate within your planning and as appropriate CanMEDs roles in addition the Medical Expert Role. Below is a definition for each role. For additional information please refer the Royal College Website http://www.royalcollege.ca/

Medical Expert	As Medical Experts, physicians integrate all of the CanMEDS Roles, applying medical knowledge, clinical skills, and professional attitudes in their provision of patient-centered care. Medical Expert is the central physician Role in the CanMEDS framework and defines the physician's clinical scope of practice.
Communicator	As Communicators, physicians form relationships with patients and their families that facilitate the gathering and sharing of essential information for effective health care.
Collaborator	As Collaborators, physicians work effectively with other health care professionals to provide safe, high-quality, patient-centered care.
Leader	As Leaders, physicians engage with others to contribute to a vision of a high-quality health care system and take responsibility for the delivery of excellent patient care through their activities as clinicians, administrators, scholars, or teachers.
Health Advocate	As Health Advocates, physicians contribute their expertise and influence as they work with communities or patient populations to improve health. They work with those they serve to determine and understand needs, speak on behalf of others when required, and support the mobilization of resources to effect change.
Scholar	As Scholars, physicians demonstrate a lifelong commitment to excellence in practice through continuous learning and by teaching others, evaluating evidence, and contributing to scholarship.
Professional	As Professionals, physicians are committed to the health and well-being of individuals and society through ethical practice, profession-led regulation, and high personal standards of behavior.

Overall Congress Learning Objectives

By the end of the 2018 Congress, delegates will be able to:

- Discuss advances in the management of acute and chronic neurological and neurosurgical disorders.
- Discuss new findings in neurological and neurosurgical disorders.
- Describe advances in neurological care and/or neurosurgical techniques.
- Identify areas where there are gaps in learning (unperceived needs) not realized before attending the Congress and extend this professional learning after the Congress to the enhanced care of patients.

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CNSF 2018 Congress Calendar of Events as of June 16th, 2018

Sunday June 24, 2018	Monday June 25, 2018	Tuesday June 26, 2018	Wednesday June 27,
8:30 AM to 11:00 AM **Courses** • Stroke – latest developments in ischaemic stroke • Neurological Determination of Death • Neurology Residents' Course - Neurogenetics and Neurometabolics for the child and adult neurologist • Neurosurgery Residents' Course – Intracranial Hypotension and Disorders of CSF **11:15 AM to 12:15 PM** • Poster Moderated Session **12:30 PM – 2:00 PM** **Lunch 'n Learns** • Thinking ahead: New treatment options for migraine prevention • Innovative Approaches to Surgical Resection Utilizing Modern Ultrasonic Tissue Ablation; A Case Series Discussion **2:00 PM to 4:30 PM** • Stroke – latest developments in intercranial hemorrhage • Epilepsy • Neurology Residents' Course - Neurogenetics and Neurometabolics for the child and adult neurologist • Neurosurgery Residents' Course – Neurosurgery Hot Seat **4:30 PM to 5:30 PM** • CNS AGM **5:30 PM to 7:30 PM** **Clinical Case Studies (CCS)** • Neuromuscular • Epilepsy Video Session • Neurosurgery-Fireside Chat • Movement Disorders • Case Based Session – Adult Neuroradiology and Head and Neck Imaging **7:30 PM** **Residents' and Faculty Social**	**7:00 AM to 8:00 AM** • CSCN EEG Section meeting **8:00 AM to 12:00 noon** **Grand Plenary** • **CSNR – Terbrugge Lecture:** Jean Raymond, Problems with the Introduction of Innovations in Neurovascular Care • **CNS - Richardson Lecture:** Mark Freedman, Does Replacing the Immune System Fix Multiple Sclerosis? • **CSCN - Gloor Lecture:** Robert Fisher, Devices for Epilepsy • **CACN – Tibbles Lecture:** Thomas Opladen, Neurotransmitter Disorders-classification, clinical presentation and treatment options • **CNSS - Penfield Lecture:** Wouter Schievink, Spontaneous Intracranial Hypotension: lessons learned from the first 1000 patients • **Society Prize Winners:** present in Grand Plenary **12:15 PM to 1:45 PM** **Lunch 'n Learns** • The spectrum of MS from Pediatric data to SPMS • Sudden Unexpected Death in Epilepsy (SUDEP) **12:15 PM to 1:45 PM** • CNSS AGM • CSNR AGM • CSCN EMG section meeting **2:00 PM to 4:30 PM** **Courses** • Neuromuscular • Current status of Neuro palliative care in Canada: Supportive care for patients and families with neurological illness • Movement Disorders • Early Career Development • Intracranial Hypotension: a course for neurologists and neurosurgeons **4:30 PM** • Joint SPC/PDC meeting **4:30 PM to 7:00 PM** **Exhibitors' Reception**	**6:30 AM to 8:00 AM** • Journal Board meeting **8:00 AM to 10:30 PM** **Child Neurology (CACN) Day** • Encephalopathy **Neurophysiology (CSCN) Day** • Beyond Routine EEG **Neurology (CNS) Day** • Neuro-immunology: Neuroimmunological Diseases **Neurosurgery (CNSS) Day** • Controversies in Spinal Surgery Cervical • Cranial-skull base neurosurgery **10:45 AM to 11:45 AM** • Poster Moderated Session **12:00 noon to 11:45 AM** **Lunch 'n Learn** • Innovation in OR Technologies **12:00 noon to 1:30 PM** **Lunch 'n Learn** • Lunch in the Exhibit Hall **1:45 PM to 4:15 PM** **Child Neurology (CACN) Day** • Encephalopathy **Neurophysiology (CSCN) Day** • EMG **Neurology (CNS) Day** • Neuro-immunology: Neurodiagnostics and neurotherapeutics **Neurosurgery (CNSS) Day** • Controversies in Spinal Surgery Lumbar • Cerebrovascular Disorders – endovascular and open approaches **4:30 PM to 6:00 PM AGMs** • CACN AGM • CSCN AGM **7:00 PM** **CNSF Social Event –** Maritime Lobster Dinner & Kitchen Party	**8:00 AM to 9:00 AM** **Chairs Select Abstracts** • PCNS, CACN/ CSCN, CNSS/CSNR - selected as part of abstract review process **9:15 AM to 11:15 AM** • Hot Topics in Neurology: Top Papers • Hot Topics in Neurosurgery • Hot Topics in Child Neurology: Top 5 papers • Hot Topics in Clinical Neurophysiology: Advances in Epilepsy **11:15 AM to 12:30 PM** • Lunch in Exhibit Hall • Shaping Our Congress and Our Federation: Your hand in planning the Future of Continuing Medical Education in Canadian Neuroscience **11:45 AM to 12:15 PM** • Dance in Parkinson's – research to practice **12:30 to 2:30 PM** **Grand Rounds** **3:00 PM to 8:00 PM** Resident Course external to Congress • Surgical approaches to the lateral and third ventricles

Sunday | June 24, 2018

As courses are developed content will be added. Click on the course title to view the details.

Coffee served at 8:00am and 11:00am.

8:30 AM to **11:00 AM**	**Courses** ▪ **Stroke – Latest Developments in Ischaemic Stroke »** ▪ **Neurological Determination of Death »** ▪ **Neurology Residents' Course - Neurogenetics and Neurometabolics for the child and adult neurologist »** ▪ **Neurosurgery Residents' Course – Intracranial Hypotension and Disorders of CSF**
Course	**Stroke – Latest Developments in Ischaemic Stroke »**
8:30 AM to **11:00 AM**	**Chair:** Richard Aviv **Course Description:** Course will provide participants with an update on latest endovascular studies including DAWN and DEFUSE and future directions for endovascular stroke studies. Advanced imaging selection methods will be discussed both to increase the time window and reduce hemorrhagic transformation complications **By the end of this course participants will be able to:** • To review the current evidence from recent endovascular stroke trials. • To understand the rationale for ongoing research in upcoming trials, including new technology. • Imaging prediction of hemorrhagic transformation- latest developments. • Summarize DAWN and DEFUSE3 trial design and results. • Review the role neuroimaging selection to optimize stroke treatment. • Discuss future research questions for expanding time windows in stroke. • To provide a brief overview of the Canadian BPR process and describe the latest updates in hyperacute care, acute care and stroke in pregnancy. **Audience:** Neurologist – Adult, Child Neurologist, Neurosurgeon, Neuroradiologist, Resident, Fellow, Nurses with interest in topic **Learning Level:** Basic (Resident, New Information), Intermediate (Practicing Physician), Advanced (special interest, Higher Level Discussion) **Learning Format:** lecture/plenary method, question and answer sessions, seminar **CanMED Roles:** Medical Expert, Scholar, Communicator , Collaborator, Leader, Health Advocate, Professional

	Start Time	Presentation Title	Name of Presenter
	08:30	Endovascular Stroke Trials : A Current Review	Muneer Eesa
	09:05	Imaging of hemorrhagic transformation- latest developments	Jai Jai Shiva Shankar
	09:40	Breaking the time barrier for acute reperfusion therapy by imaging of therapeutic targets	Steve Warach
	10:15	What's new in the Canadian Best Practice Recommendations for Stroke	Gord Gubitz
	10:45	Questions	Panel

Course **Neurological Determination of Death »**

8:30 AM to **11:00 AM**

Co-chairs: Jeanne Teitelbaum, Jennifer Hancock

Course Description:

This is a multi-modality workshop on the diagnosis of neurologic determination of death (NDD)as well as information on determination of cardiac death (DCD) and Medical aid in Dying (MAiD). There will be a mixture of videos, didactic teaching, dynamic interactions and case discussions.

By the end of this course participants will be able to:

- Understand NDD pathophysiology
- Perform the NDD declaration, and be comfortable communicating brain death result to the family.
- Discussion about Ontario or other cases

Audience: Neurologist – Adult, Child Neurologist, Neurosurgeon, Neurophysiologist, Resident, Fellow, Nurses with interest in topic

Learning Level: Basic (Resident, New Information), Intermediate (Practicing Physician), Advanced (special interest, Higher Level Discussion)

Learning Format: Audience response systems, case studies, demonstration, video, discussion group/ peer exchange; lecture/plenary method and question and answer sessions

CanMED Roles: Medical Expert, Scholar, Communicator, Collaborator, Leader, Health Advocate, Professional

	Start Time	Presentation Title	Name of Presenter
	08:30	Welcome and introduction	Jennifer Hancock Jeanne Teitelbaum

8:30 AM to **11:00 AM**	08:35	Review objectives (5 minutes) Pre-workshop assessment – poll audience using app (10 minutes)	Jennifer Hancock
	08:50	Neurologic death: Pathophysiology - Didactic National Standards - Didactic Clinical Examination – Video (peds video is a little fresher then the CCDT) Communicating death to the family Discussion around Ontario Cases – didactic /participant questions	Andrew Healey
	09:45	DCD identification, declaration & process	Jennifer Hancock
	10:15	MAiD & organ donation – 10 mins	Janice Chisholm
	10:25	Organ recovery & recipient outcomes	Jennifer Hancock
	10:45	Post-workshop assessment – poll audience with app	Jennifer Hancock
	10:55	Questions – 5 minutes	Panel
Course	**Neurology Residents' Course - Neurogenetics and Neurometabolics for the child and adult neurologist »**		
8:30 AM to **11:00 AM**	**Co-chairs:** Thiviya Selvanathan, Parichita Choudhury **Course Description:** This course aims to review key principles of Neurogenetics and Neurometabolics. It will begin with an introduction to different inheritance patterns and a review of the various types of genetic testing available. The course will then review the genetics of neurologic disorders and novel gene therapies being implemented in the treatment of neurologic disorders. Finally, it will review key Neurometabolic disorders encountered by child and adult neurologists. **By the end of this course participants will be able to:** • Understand inheritance patterns and genetics of common neurologic disorders • Develop an approach to selected the appropriate genetic test in the neurology clinic • Recognize the typical clinical presentation of common Neurometabolic disorders • Appreciate the use of novel gene therapies in treatment of hereditary neurologic disorders **Audience:** Neurologist – Adult, Child Neurologist, Resident, Fellow		

Learning Level: Basic (Resident, New Information), Intermediate (Practicing Physician)

Learning Format: Case studies, Lecture, question and answer sessions

CanMED Roles: Medical Expert, Scholar, Communicator, Health Advocate, Professional

Agenda:

Start Time	Presentation Title	Name of Presenter
08:30	Mechanisms of Inheritance and Disease	Grace Yoon
09:15	Genetic Testing and Ethical Issues	Grace Yoon
10:15	Overview of genetic therapies in neurologic disorders	Jean Mah

Course

Neurosurgery Residents' Course – Intracranial Hypotension and Disorders of CSF »

8:30 AM to **11:00 AM**

Co-chairs: Mark Hamilton, Mark Bigder, Michael Taccone

Course Description:

This course will provide a case-based review of the presentation and neurosurgical management of disorders of cerebrospinal fluid (CSF) in both the adult and pediatric populations. The program will begin with a featured talk on intracranial hypotension by the 2018 Penfield Lecturer Dr. Wouter Schievink from Cedars-Sinai Medical Center, Los Angeles, California. The program will then focus on spontaneous and acquired forms of adult hydrocephalus, including children with hydrocephalus transitioning to adulthood. The program will then shift to a case-based discussion on endoscopic and open CSF diversion procedures for congenital and acquired pediatric hydrocephalus. The program will provide ample opportunity for questions and answers with neurosurgeon experts who work in the challenging field of both hydrocephalus and intracranial hypotension.

By the end of this course participants will be able to:

Recognize common presentations of patients with intracranial hypotension and spontaneous and acquired forms of hydrocephalus.

Identify best-practices for the management of CSF disorders in the adult and pediatric populations.

Appreciate the challenges of managing complex hydrocephalus and intracranial hypotension cases.

Develop a working patient-centered approach to the management of CSF disorders in the pediatric and adult populations.

Audience: Neurosurgery Resident, Neurosurgery Fellow

Learning Level: Basic (Resident, New Information)

Learning Format: Case studies, lecture/plenary method, question and answer.

CanMED Roles: Medical Expert, Collaborator, Health Advocate, Professional

8:30 AM to 11:00 AM

Start Time	Presentation Title	Name of Presenter
08:30	Welcome and Introduction	Michael Taccone
08:35	Spontaneous Intracranial Hypotension: A Neurosurgical Disorder	Wouter Schievink
09:20	Normal Pressure Hydrocephalus	Mark Hamilton
09:50	Adult Hydrocephalus and Incidental Ventriculomegaly	Andrew Parrent
10:25	Pediatric Hydrocephalus: Endoscopic Third Ventriculostomy and Shunt Insertion Techniques	Jay Riva-Cambrin

11:15 AM to 12:15 PM

Poster Moderated Session

- **Session Schedule »**

Session#	Date	Time	Room	Session Name
SP1	Sun, June 24	11:15 - 12:15	Poster Station 1	Epilepsy and EEG 1
SP2	Sun, June 24	11:15 - 12:15	Poster Station 2	Neuro-oncology 1
SP3	Sun, June 24	11:15 - 12:15	Poster Station 3	Neuro-oncology 2
SP4	Sun, June 24	11:15 - 12:15	Poster Station 4	Neurovascular, Stroke and Neurointerventional 1
SP5	Sun, June 24	11:15 - 12:15	Poster Station 5	MS / Neuroinflammatory Disease
SP6	Sun, June 24	11:15 - 12:15	Poster Station 6	Other Neurosurgery (Adult and Paediatric) / Functional Neurosurger and Pain
SP7	Sun, June 24	11:15 - 12:15	Poster Station 7	Neurotrauma / Neurocritical care
SP8	Sun, June 24	11:15 - 12:15	Poster Station 8	Neuroscience Education
SP9	Sun, June 24	11:15 - 12:15	Poster Station 9	Neuroimaging

12:30 PM to 2:00 PM	**Lunch 'n Learns** ▪ **Thinking ahead: New treatment options for migraine prevention »** ▪ **Innovative Approaches to Surgical Resection Utilizing Modern Ultrasonic Tissue Ablation »** A Case Series Discussion
Lunch `n Learn	**Thinking ahead: New treatment options for migraine prevention »**
12:30 PM to 2:00 PM	**Chair(s):** Suzanne Christie, MD, FRCPC and Richard Leckey, MD, B.Sc., FRCPC **Course Description:** This symposium will discuss the burden of migraine for patients and the healthcare system, current treatments and challenges and unmet needs that exist. A review of the pathophysiology will follow to set the stage for an introduction to a new class of migraine therapy, calcitonin gene-related protein (CGRP) antagonists. To inform on this new class of therapy, we will review its mechanism of action and provide an overview of data in both episodic and chronic migraine across various outcomes including headache response and quality of life. This program will include interactive questions throughout the presentation as well as an open Q&A discussion at the end. **Upon completion of this program, participants will be able to:** • Recognize the importance of migraine and its significant burden to patients; • Describe the pathophysiology underlying migraine and the role of the calcitonin gene-related peptide (CGRP) pathway; • Identify unmet needs with currently available treatments for migraine; • Review recent data from evolving research and upcoming treatments for migraine prevention including CGRP antagonists. **Audience:** Neurologist – Adult, Child Neurologist, Neurosurgeon, Neuro Physiologist, Resident, Fellow, Nurses with interest in topic **Learning Level:** Basic (Resident, New Information), Intermediate (Practicing Physician), Advanced (SIG, Higher Level Discussion) **Learning Format:** Audience response systems (touch pads), Case studies, Demonstration, Discussion group/ peer exchange/ user groups, Forum/panels, Lecture/plenary method, Question and answer sessions, Role playing, Seminar, Small group discussion, Small Workshop / hands-on demonstration **CanMED Roles:** Medical Expert, Scholar, Communicator, Collaborator, Leader, Health Advocate, Professional

	Time	Description	Name of Presenter
	12:30	Introduction	Dr. S. Christie
	12:45	Migraine Pathophysiology	Dr. R. Leckey
	13:05	Migraine Treatment: Old and New	Dr. S. Christie
	13:30	Practical Tips: Guidance to discuss new treatment with patients	Dr. S. Christie & Dr. R. Leckey
	13 :45	Q&A	Dr. S. Christie & Dr. R. Leckey
		Evaluation & Wrap Up	

Lunch 'n Learn

Innovative Approaches to Surgical Resection Utilizing Modern Ultrasonic Tissue Ablation »

A Case Series Discussion »

12:30 PM to 2:00 PM

Chair(s): Dr. Gerry Grant, MD, FACS, Associate Professor of Neurosurgery and, by courtesy, of Neurology at the Stanford University Medical Center, TBD – Canadian Neurosurgeon

Course Description:

Dr. Gerry Grant, will present the latest technologies in ultrasonic tissue ablation and how the adoption of advanced technologies has allowed him to optimize tissue resection in his practice. Attendees of this seminar will be educated on pathology prevalence and burden of disease, diagnosis, and available treatments with a focus on utilization of advance ultrasonic tissue ablation in novel surgical procedures. A review of cases will also be presented and discussed.

By the end of this course participants will be able to:

- Identify the pathology prevalence and burden of disease, diagnosis, and treatments available
- Discuss new surgical approaches for the utilization of advanced ultrasonic tissue ablation for tissue resection
- Recognize novel ways advanced ultrasonic tissue ablation can be used within their own patient population in their practice.

Audience: Neurologist – Adult | Child Neurologist | Neurosurgeon | Neuro Physiologist | Resident | Fellow | Nurses with interest in topic

Learning Level: Basic (Resident, New Information) | Intermediate (Practicing Physician) | Advanced (SIG, Higher Level Discussion)

Learning Format: Case studies | Lecture/plenary method | Question and answer sessions | Seminar

CanMED Roles: Medical Expert | Scholar | Communicator | Collaborator | Leader | Health Advocate | Professional

	Start Time	Presentation Title	Name of Presenter
	12:30	Innovative Approaches to Surgical Resection Utilizing a Novel Ultrasonic Tissue Ablation System	Dr. Gerry Grant
		Questions and discussion	All

2:00 PM to 4:30 PM

Courses

- **Stroke – latest developments in intercranial hemorrhage »**
- **Epilepsy »** An update on the medical and surgical management of epilepsy
- **Neurology Residents' Course - Neurogenetics and Neurometabolics for the child and adult neurologist »**
- **Neurosurgery Residents' Course – Neurosurgery Hot Seat »**

Course **Stroke – latest developments in intercranial hemorrhage »**

2:00 PM to 4:30 PM

Chair: Richard Aviv

Course Description:

Course will provide participants with an update on emerging imaging signs of hematoma expansion in ICH, share latest results of 2 recently completed acute ICH trials and present cutting edge new minimally invasive neurosurgical techniques for ICH treatment. The course will also highlight the role of research in aneurysmal hemorrhage and how it has informed current endovascular approaches.

By the end of this course participants will be able to:

- To identify CT markers of hematoma expansion
- To understand the role of rVIIa in acute ICH management based on recent studies
- To understand the role of minimally invasive endoscopic procedures in ICH treatment
- To understand the impact of research on the current management of aneurysmal hemorrhage

Audience: Neurologist – Adult, Child Neurologist, Neurosurgeon, Neuroradiologist, Resident, Fellow, Nurses with interest in topic

Learning Level: Basic (Resident, New Information), Intermediate (Practicing Physician), Advanced (special interest, Higher Level Discussion)

Learning Format: lecture/plenary method, question and answer sessions, seminar

CanMED Roles: Medical Expert, Scholar, Communicator, Collaborator, Leader, Health Advocate, Professional

	Start Time	Presentation Title	Name of Presenter
	14:00	Markers of ICH expansion	Richard Aviv

	14:45	The Evolution of Minimally Invasive Intracerebral Hemorrhage Evacuation	Chris Kellner
	15:35	Research in the Treatment of Intracranial Aneurysms	Jean Raymond
	16:25	Questions	All 3 speakers

Course **Epilepsy »** An update on the medical and surgical management of epilepsy

2:00 PM to 4:30 PM

Co-chairs: Mark Sadler, David Clarke, Mark Keezer

Course Description:

We will review up-to-date management practices in the treatment of epilepsy. There will be a special focus on specific epilepsy populations whose management can at times be challenging. This will include updates on the treatment of women with epilepsy, in particular issues surrounding pregnancy; the use of both epilepsy surgery and new devices in the treatment of drug resistant epilepsy; and a practical review of the newest generation AEDs and in which populations these may be best used.

By the end of this course participants will be able to:

- Review the treatment of women with epilepsy
- Describe issues surrounding access to and the use of epilepsy surgery
- New devices in the treatment of drug resistant epilepsy
- A practical and clinical relevant review of the newest generation AEDs

Audience: Neurologist – Adult, Child Neurologist, Neurosurgeon, Resident, Fellow, Nurses with interest in topic

Learning Level: Basic (Resident, New Information), Intermediate (Practicing Physician), Advanced (special interest, Higher Level Discussion)

Learning Format: forum/panels, lecture/plenary method, question and answer sessions

CanMED Roles: Medical Expert, Scholar, Communicator, Collaborator, Leader, Health Advocate, Professional

Start Time	Presentation Title	Name of Presenter
14:00	An update on treating women with epilepsy	Kristin Ikeda
14:30	Access to epilepsy surgery in Canada	Mark Keezer
15:00	A practical and clinically relevant review of the newest generation AEDs	Colin Josephson
15:30	New Definition and Classification of Epilepsy	Robert Fisher
16:00	Panel Q&A period	All speakers

Course	**Neurology Residents' Course - Neurogenetics and Neurometabolics for the child and adult neurologist »**
2:00 PM to 4:30 PM	**Co-chairs:** Gerald Pfeffer, Thiviya Selvanathan, Parichita Choudhury **Course Description:** This course aims to review key principles of Neurogenetics and Neurometabolics. It will begin with an introduction to different inheritance patterns and a review of the various types of genetic testing available. The course will then review the genetics of neurologic disorders and novel gene therapies being implemented in the treatment of neurologic disorders. Finally, it will review key Neurometabolic disorders encountered by child and adult neurologists. **By the end of this course participants will be able to:** • Understand inheritance patterns and genetics of common neurologic disorders • Develop an approach to selected the appropriate genetic test in the neurology clinic • Recognize the typical clinical presentation of common Neurometabolic disorders • Appreciate the use of novel gene therapies in treatment of hereditary neurologic disorders **Audience:** Neurologist – Adult, Child Neurologist, Resident, Fellow **Learning Level:** Basic (Resident, New Information), Intermediate (Practicing Physician) **Learning Format:** Case studies, Lecture, question and answer sessions **CanMED Roles:** Medical Expert, Scholar, Communicator, Health Advocate, Professional

Start Time	Presentation Title	Name of Presenter
14:15	Selected mendelian disorders for the neurologist	Gerald Pfeffer
15:00	Neurometabolics - Key disorders or approach	Helly Goez
16:00	Genetics of complex diseases	Gerald Pfeffer

Course	**Neurosurgery Residents' Course – Neurosurgery Hot Seat »**
2:00 PM to 4:30 PM	**Co-chairs:** Kesh Reddy and Chris Wallace **Course Description:** The course is geared to help the target audience get comfortable with the format, general content and mechanics of the RCS examination in neurosurgery. **Audience:** Neurosurgical Trainees-all levels **Learning Level:** Intermediate

	Learning Format: Verbal communication **CanMEDs Roles:** Medical Expert, Scholar, Communicator, Professional
2:00 PM to 4:30 PM	**Start Time** / **Presentation Title** / **Name of Presenter** 2:00 pm / Not applicable / K Reddy, C Wallace, M Bridger, M Taccone, S Walling, F Al-Khareyf, R Moulton
5:30 PM to 7:30 PM	**Clinical Case Studies** ▪ **Neuromuscular** ▪ **Epilepsy Video Session »** ▪ **Neurosurgery - Fireside Chat »** ▪ **Movement Disorders »** Neuro-ophthalmology Pearls in Movement Disorders ▪ **Case Based Session - Adult Neuroradiology and head and neck imaging »**
CCS	**Neuromuscular »**
CCS	**Epilepsy Video Session »**
5:30 PM to 7:30 PM	**Co-Chairs:** Seyed Mirsattari, José F. Téllez Zenteno **Course Description:** This is an interactive Video-EEG session where pediatric and adult cases will be presented. The audience is expected to engage in the analysis of the case and semiology of the events after the initial clinical description of each case and before any laboratory results are revealed. The audience will discuss the best laboratory investigations and anticipated results before such data are provided. **By the end of this course participants will be able to:** • Identify semiology of some epileptic seizures • Make a correlation between clinical features and anatomical localization of epileptic seizures • Identify interictal and ictal EEG patterns in the presented cases • Make an appropriate differential diagnosis for each case • Provide a treatment plan

5:30 PM to 7:30 PM	**Audience:** Neurologist – Adult, Child Neurologist, Neurosurgeon, Neuro Physiologist, Resident, Fellow, Nurses with interest in topic, EEG technologists **Learning Level:** Basic (Resident, New Information) to Advanced (SIG, Higher Level Discussion) **Learning Format:** Case studies, Demonstration, Discussion group/ peer exchange **CanMED Roles:** Medical Expert, Scholar, Communicator, Collaborator, Manager, Health Advocate, Professional
	Agenda: **Start Time** / **Presentation Title** / **Name of Presenter** 17:30 — Welcome and Introduction — Seyed Mirsattari 17:30 — First case — Mark Saddler 18:00 — Second case — José F. Téllez Zenteno 18:30 — Third case — Richard Huntsman 19:00 — Fourth case — Seyed Mirsattari
CCS	**Neurosurgery- Fireside Chat »**
5:30 PM to 7:30 PM	**Chair:** Ian Fleetwood **Course Description:** The Neurosurgery Fireside chat is intended as a forum for presentation and discussion of complication avoidance, technical nuances in neurosurgery, rare complications, and subtle innovations. The session will be audience driven, with an open forum for brief presentations and the intention that 50% of the allotted time is dedicated to frank discussion and audience interaction. By the end of this course participants will be able to: Predict and avoid complications of neurosurgery; Apply technical nuances to improve surgical outcomes; Identify and manage rare or unusual complications of neurosurgery; Reproduce innovations presented by peers. **Audience:** Neurosurgeon Resident Fellow **Learning Level:** Basic (Resident, New Information), Intermediate (Practicing Physician), Advanced (SIG, Higher Level Discussion) **Learning Format:** Case studies, Discussion group/ peer exchange/ user groups, Forum/panels, Lecture/plenary method, Question and answer sessions. **CanMED Roles:** Medical Expert, Scholar, Communicator, Collaborator, Manager, Health Advocate, Professional

	Start Time	Presentation Title	Name of Presenter
	17:30	Introduction	Ian Fleetwood
	17:35	Individual Case Presentations with Q&A	TBA

CCS

Movement Disorders » Neuro-ophthalmology Pearls in Movement Disorders

5:30 PM to 7:30 PM

Co-chairs: Kerrie Schoffer, Charles Maxner

Course Description:

Movement disorders commonly present with ocular features that can aid in the diagnosis. This program will begin with a review of the bedside examination of ocular movements. In the interactive second half, participants will learn through cases and videos how to recognize ocular clues for the localization and diagnosis of both common and unusual movement disorders.

By the end of this course participants will be able to:

- Perform a bedside oculomotor examination relevant to movement disorders.
- Identify eye movement abnormalities of fixation, saccades, pursuit, vergence, and vestibular function.
- Recognize key findings of eye movement abnormalities across the spectrum of common and uncommon hypokinetic and hyperkinetic disorders.

Audience: Neurologist – Adult, Child Neurologist, Resident

Learning Level: Basic (Resident, New Information), Intermediate (Practicing Physician), Advanced (special interest, Higher Level Discussion)

Learning Format: Audience response systems, case studies, lecture/plenary method, question and answer sessions

CanMED Roles: Medical Expert, Scholar, Communicator, Professional

Start Time	Presentation Title	Name of Presenter
17:30	Introduction	Kerrie Schoffer
17:35	Bedside Examination of Eye movements	Charles Maxner
18:15	Video Review of Eye Movements in Common Movement Disorders	Kerrie Schoffer
18:45-19:30	Video Cases of Challenging Movement Disorders	Mandar Jog Various

CCS	**Case Based Session-Adult Neuroradiology and head and neck imaging »**
	Chair: Richard Aviv **Course Description:** Course will provide a mixture of cases in neuroradiology and head and neck imaging aimed for residents, fellows and junior staff in radiology, neurology and neurosurgery. **By the end of this course participants will be able to:** • **To extend their knowledge on common adult neuroradiology and head and neck diseases** • **To highlight important but rare entities in adult neuroradiology and head and neck diseases** **Audience:** Neurologist – Adult, Neurosurgeon, Neuroradiologist, Resident, Fellow, Nurses with interest in topic **Learning Level:** Basic (Resident, New Information), Intermediate (Practicing Physician), Advanced (special interest, Higher Level Discussion) **Learning Format:** Audience response systems, Case studies, demonstration, Lecture/plenary method **CanMED Roles:** Medical Expert, Scholar, Communicator, Collaborator, Health Advocate, Professional
	Start Time / **Presentation Title** / **Name of Presenter** 17:30 / Case Based Session-Adult Neuroradiology and head and neck imaging / Laila Alshafai
7:30 PM to 9:00 PM	## Residents' and Faculty Social ▪ **Social Details »**
	Resident and Faculty Social 7:30 pm For Registered delegates The Resident and Faculty Social will be held in the **Prince George Hotel – Windsor Room** and will provide participants with an occasion to network in an informal setting. There will also be a job fair at this social event. Staff physicians and academic centres that are hiring for fellowships and staff positions will be present and residents will be able to learn about available opportunities. **This event should provide a great setting for forging relationships and enjoying the company of colleagues. Enjoy hot and cold hors d'oeuvres. Cash bar will be available.**

TOP

Monday | June 25, 2018

As courses are developed content will be added. Click on the course title to view the details.

Coffee served at 7:30am and 10:00am (30 minute break).

	Grand Plenary
8:00 AM to 12:00 PM	▪ **CSNR – Terbrugge Lecture: Jean Raymond »** **Problems with the Introduction of Innovations in Neurovascular Care**
	▪ **CNS - Richardson Lecture: Mark Freedman »** **Does Replacing the Immune System Fix Multiple Sclerosis?**
	▪ **CSCN Gloor Lecture: Robert Fisher »** **Devices for Epilepsy**
	▪ **CACN Tibbles Lecture: Thomas Opladen »** **Neurotransmitter disorders - Classification, clinical presentation and treatment options**
	▪ C**NSS Penfield Lecture: Wouter Schievink »** **Spontaneous intracranial hypotension: lessons learned from the first 1000 patients**
8:00 AM to 12:00 PM	**CSNR – Terbrugge Lecture: Jean Raymond »** Problems with the Introduction of Innovations in Neurovascular Care Neuroradiologist at the Centre hospitalier de l'Université de Montréal (CHUM, University of Montreal Hospital Centre) and Director of the Interventional Neuroradiology Research Laboratory, Dr. Raymond is also Full Professor in the Department of Radiology, Radiation Oncology and Nuclear Medicine at the University of Montreal. Very active in the field of interventional neuroradiology research since 1994, Dr. Raymond has published over two hundred articles in scientific journals. He has also given numerous conferences around the world. His clinical and experimental publications have earned him international recognition among his peers and the scientific community. In 2004, he received the 'Innovation and Excellence Prize Dr Jean A. Vezina' from the Société Canadienne Française de Radiologie. In 2015, he was awarded the Canadian Association of Radiologist Gold medal for his career achievements. In 2016 he received the Luessenhop Lecturer Award.

8:00 AM to 12:00 PM

CNS - Richardson Lecture: Mark Freedman »

Does Replacing the Immune System Fix Multiple Sclerosis?

Mark Freedman is Professor of Medicine (Neurology) at the University of Ottawa, Senior Scientist at the Ottawa Hospital Research Institute and Director of the Multiple Sclerosis Research Unit at the Ottawa Hospital-General Campus.

His extensive research includes molecular neurochemistry, cellular immunology, and clinical studies in MS. His basic science interest concerns immune mechanisms of damage in MS, with a particular interest in the role of the innate immune system such as gamma-delta T-cells. His main clinical interests are cell-based therapies for MS. He was the lead investigator of the Canadian Bone Marrow Transplant Study in MS and he co-heads an international study of mesenchymal stem cells for the treatment of MS. He is the current Treasurer of ACTRIMS.

8:00 AM to 12:00 PM

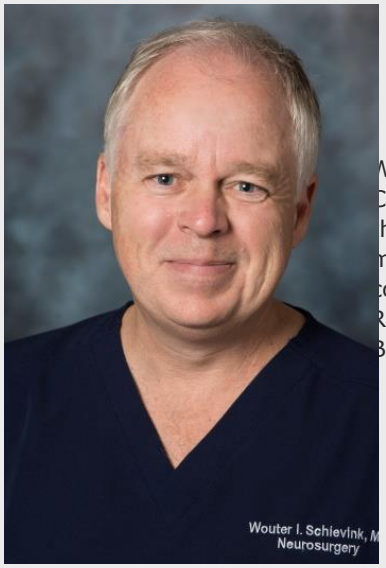
CSCN Gloor Lecture: Robert Fisher »

Devices for Epilepsy

Robert S. Fisher, MD, PhD is Maslah Saul MD Professor and Director of the Stanford Epilepsy Center and EEG lab.

He had research awards from the Klingenstein Foundation, Epilepsy Foundation, CURE, NIH and NSF. He has published about 225 peer-reviewed articles and 3 books. He was named every year from 1996 to 2017 in Best Doctors in America. He received the Ambassador Award from the International League Against Epilepsy, the 2005 American Epilepsy Society Service Award and the 2006 Annual Clinical Research Award. Dr. Fisher is Past-President of the American Epilepsy Society, and has served on the Board of the International League Against Epilepsy and as Editor-in-Chief of the Journal, Epilepsia.

He is past Editor-in-Chief of the world's most visited website about epilepsy, epilepsy.com. Dr. Fisher led the projects to develop a formal definition of who has epilepsy and an update of seizure type classification. His recent research is on new devices to detect and treat seizures. He led the clinical trials on deep brain stimulation for epilepsy and on the next-generation (heart-rate-sensing) vagus nerve stimulation device. Dr. Fisher has additionally won several teaching awards and cares for epilepsy patients in the Stanford Epilepsy Clinics and inpatient epilepsy unit.

8:00 AM to 12:00 PM	**CACN Tibbles Lecture: Thomas Opladen »** ***Neurotransmitter disorders - Classification, clinical presentation and treatment options*** University Children Hospital - Heidelberg Germany Divsion of Child Neurology and Metabolic Medicine Dr Opladen is a specialist Pediatric and Adolescent Medicine with specific focus in Pediatric Neurology. Dr Opladen received his degree in Pediatrics in 2008 and went on to specialize in Pediatric Neurology, which developed to include paediatric intensive care medicine and paediatric metabolic medicine. He was responsible for the Coordination of the iNTD network (International Working Group on Neurotransmitter related Disorders) in 2014. He has also acted as Consultant for Child Neurology and Inborn Errors of Metabolism and was appointed Associate Professor at the University of Heidelberg. In 2017.
8:00 AM to 12:00 PM	**CNSS Penfield Lecture: Wouter Schievink »** ***Spontaneous intracranial hypotension: lessons learned from the first 1000 patients***  Wouter I. Schievink, MD is professor of neurosurgery at Cedars-Sinai Medical Center in Los Angeles, where he directs the vascular and CSF leak programs. After obtaining his medical degree at the University of Amsterdam, he completed his neurosurgery residency at the Mayo Clinic in Rochester, Minnesota, and a vascular fellowship at the Barrow Neurological Institute in Phoenix, Arizona.
12:15 PM to 1:45 PM	**Lunch 'n Learns** ▪ **The spectrum of MS from Pediatric data to SPMS »** ▪ **Sudden Unexpected Death in Epilepsy (SUDEP) »**

Lunch `n Learn	**The spectrum of MS from Pediatric data to SPMS »**
12:15 PM to 1:45 PM	**Chair:** Dr Mark Freedman **Course Description:** Pediatric multiple sclerosis and Secondary Progressive Multiple Sclerosis (SPMS) represent two particular MS subgroups with unique diagnostic challenges and many unanswered questions. Due to the narrow window of environmental exposures and clinical disease expression, they represent important groups to discuss to gain a better understanding of MS pathogenesis and optimal disease management in routine clinic practice. **By the end of this course participants will be able to:** • To learn about differential diagnoses and workup in pediatric MS patients and SPMS patients • To consider age-specific MS disease characteristics • To discuss age-related MS treatment strategies **Audience:** Neurologist – Adult | Child Neurologist /Resident | Fellow | Nurses with interest in topic **Learning Level:** Intermediate (Practicing Physician) **Learning Format:** Forum/panels, Seminar **CanMED Roles:** Medical Expert
	Description — **Name of Presenter** Opening Remarks — Mark Freedman Pediatric Multiple Sclerosis: Why Age Matters — Daniela Pohl • To learn about differential diagnoses and workup in pediatric MS patients and SPMS patients • To consider age-specific MS disease characteristics • To discuss age-related MS treatment strategies Recognizing the Transition — Mark Freedman • Understand the difficulty in recognizing when SPMS begins relative to RMS • Descrbe the elements that favour a progressive vs. relapsing course • Review the approach to a patient suspected of transitioning Q & A — Freedman & Pohl Evaluation & Wrap Up

Lunch `n Learn	**Sudden Unexpected Death in Epilepsy (SUDEP) »**
12:15 PM to 1:45 PM	**Chair(s):** Dr. Seyed Mirsattari (Chair and Speaker), Dr. Elizabeth Donner (Speaker) **Course Description:** People living with epilepsy have a greater risk of premature death compared to the general population. Sudden Unexpected Death in Epilepsy Patients (SUDEP) is the most common cause of epilepsy-related death. Neurologists play a critical role in identifying people at risk of seizures, and in working to reduce that risk. This symposium will review the latest SUDEP related science and practice guidelines. **By the end of this symposium, participants will be able to:** 1. Demonstrate an increased understanding of SUDEP, including its epidemiology and potential mechanisms 2. Evaluate the risk of SUDEP in their patients with epilepsy 3. Apply strategies that will aid in SUDEP risk reduction 4. Discuss SUDEP with colleagues and patients **Audience:** Neurologist – Adult | Child Neurologist | Neurosurgeon | Neuro Physiologist | Resident | Fellow | Nurses with interest in topic **Learning Level:** Basic (Resident, New Information) | Intermediate (Practicing Physician) **Learning Format:** Lecture/plenary method, Question and answer sessions **CanMED Roles:** Medical Expert | Scholar | Communicator | Collaborator | Leader | Health Advocate | Professional

Time	Description	Name of Presenter
12:15pm	Welcome and introduction	Seyed Mirsattari
12:20pm	SUDEP – background, epidemiology, pathophysiology, risk factors	Seyed Mirsattari
12:45pm	SUDEP – risk minimization, practice guidelines, disclosure to patients	Elizabeth Donner
1:15pm	Audience Interactive Question and Answer Session	Seyed Mirsattari and Elizabeth Donner
1:40pm	Evaluation and Wrap-up	

2:00 PM to 4:30 PM	**Courses** ▪ **Neuromuscular »** ▪ **A Palliative Approach to Care in Neurology and Neurosurgery »** ▪ **Early Career Development »** ▪ **Movement Disorders »** New Frontiers in Parkinson's Disease and Movement Disorders ▪ **Intracranial Hypotension - a course for neurologists and neurosurgeons »**
Course	**Neuromuscular »**
2:00 PM to 4:30 PM	**Co-chairs:** Fraser Moore, Michelle Mezei **Course Description:** The Neuromuscular course will focus on new developments in neuromuscular disease that will be of interest to both general neurologists and neuromuscular specialists. **By the end of this course participants will be able to:** • Recognize clinical features suggestive of an autoimmune autonomic ganglionopathy • Become familiar with the clinical features and treatment options for familial amyloid polyneuropathy • Understand current evidence concerning the pathophysiology of CIDP • Name one recent advance in neuromuscular genetics **Audience:** Neurologist – Adult, Child Neurologist, Neurophysiologist, Resident, Fellow, Nurses with interest in topic, Medical Student **Learning Level:** Basic (Resident, New Information), Intermediate (Practicing Physician), Advanced (special interest, Higher Level Discussion) **Learning Format:** Forum/panels, Lecture/plenary method, Question and answer sessions **CanMED Roles:** Medical Expert, Scholar, Health Advocate, Professional

Start Time	Presentation Title	Name of Presenter
14:00	Introduction	Fraser Moore
14:05	Autoimmune Autonomic Ganglionopathy	Steve Vernino
14:30	Audience Question & Answer	
14:40	Familial Amyloid Polyneuropathy	Michelle Mezei

2:00 PM to 4:30 PM	15:05	Audience Question & Answer	
	15:15	Is CIDP a Chronic Inflammatory Delaminating Paranodopathy?	Steve Baker
	15:40	Audience Question & Answer	
	15:50	Recent Higlights in Neuromuscular Genetics	Jodi Warman Chardon
	16:15	Audience Question & Answer	

Course — **A Palliative Approach to Care in Neurology and Neurosurgery »**

2:00 PM to 4:30 PM

Co-chairs: Teneille Gofton, Jeff Hall

Course Description:

Advances in knowledge and therapies in the clinical neurosciences have resulted to improved survival and life expectancy in many diseases as they relate to neurology and neurosurgery. A growing body of clinical experience and research evidence has demonstrated the benefits of a palliative approach to care in the advanced stages of oncological and non-oncological diseases. In this course, the faculty will facilitate learning on the application of a palliative approach to the care of people living with advanced neurological and neurosurgical diseases.

By the end of this course participants will be able to:

1. Describe the patient/family and clinical characteristics that may benefit from a palliative approach to care.
2. Review palliative needs in specific populations: adult neurology, pediatric neurology, neurosurgery.
3. Demonstrate an awareness of how to incorporate a palliative approach to care into the care of people living with neurological and neurosurgical diseases.

Audience: neurologists, neurosurgeons, residents, nurses, allied health

Learning Level: Basic (Resident, New Information), Intermediate (Practicing Physician), Advanced (special interest, Higher Level Discussion)

Learning Format: case studies, lecture/plenary method, question and answer sessions

CanMED Roles: Medical Expert, Scholar, Communicator, Collaborator, Leader, Health Advocate, Professional

Start Time	Presentation Title	Name of Presenter
14:00	A palliative approach to care – What is it? What is the evidence?	Teneille Gofton
14:30	Palliative care in pediatric neurology	Chris Vadebonceour

2:00 PM to 4:30 PM	15:00	Palliative care in Adult Neurology	Veronica Bruno
	15:30	Palliative Care in Neurosurgery: a focus on Neuro-Oncology	Jeff Hall
	15:50	questions	All speakers
Course	**Early Career Development »**		
2:00 PM to 4:30 PM	**Co-chairs:** Chris Wallace and Alexandre Henri-Bhargava **Course Description:** Current fellows and attending staff will describe their career paths and provide insights on choosing a career path, evaluating a practice opportunity, and mentorship. An hour will be devoted to allowing close interaction with faculty and providing specific advice to attendees. **By the end of this course participants will be able to:** • Describe the mentorship process • Evaluate a practice opportunity • List some key challenges in the transition to practice **Audience:** Resident, Fellow, Early career physicians **Learning Level:** Basic (Resident, New Information) **Learning Format:** Discussion group/ peer exchange, lecture, question and answer sessions **CanMED Roles:** Leader, Professional		
Course	**Movement Disorders »** New Frontiers in Parkinson's Disease and Movement Disorders		
2:00 PM to 4:30 PM	**Co-chairs:** Heather Rigby, Tejas Sankar **Course Description:** The diagnosis and management of Parkinson's Disease and other movement disorders has evolved considerably over the last decade. Advances in imaging, medical therapy, and surgical intervention are now available to Canadian practitioners involved in the treatment of patients with these conditions. This course will updates attendees on the use, promise, and limitations of these exciting new developments. **By the end of this course participants will be able to:** • Summarize the current evidence for, and emerging technological advances related to, Deep Brain Stimulation in the treatment of Parkinson's Disease		

2:00 PM to 4:30 PM	• Describe the use of focused ultrasound as a therapeutic approach in movement disorders • Summarize the current indications and evidence for Duodopa and apomorphine therapy in the treatment of Parkinson's Disease • Understand the diagnostic utility and limitations of functional imaging—including DaTscan imaging—in movement disorders **Audience:** Neurologist – Adult, Neurosurgeon, Child Neurologist, Neuroradiologist, Neurophysiologist, Resident, Fellow, Nurses with interest in topic, Neuroscientists focused on research in Parkinson's Disease and movement disorders **Learning Level:** Intermediate (Practicing Physician) **Learning Format:** Lecture/plenary method, question and answer sessions **CanMED Roles:** Medical Expert, Scholar, Communicator, Collaborator, Professional

Start Time	Presentation Title	Name of Presenter
14:00	Welcome and introduction	Tejas Sankar & Heather Rigby
14:05	Update on functional brain imaging in Movement Disorders	Mario Masellis
14:30	New therapeutic options: Duodopa	Mandar Jog
14:55	New therapeutic options: Apomorphine	Susan Fox
15:20	Update on Deep Brain Stimulation (DBS) for Movement Disorders	Tejas Sankar
15:55	New therapeutic options: Focused Ultrasound	Suneil Kalia
16:20	Additional audience question and answer	All presenters

Course	**Intracranial Hypotension - a course for neurologists and neurosurgeons »**
2:00 PM to 4:30 PM	**Co-Chairs:** Dr. Wouter Schievink, Dr. Stephen Lownie **Course Description:** SIH is an increasingly recognized entity with myriad clinical presentations across a broad spectrum of acuity from chronic headache to progressive dementia to rapid onset coma. Like syphilis and chronic subdural hematoma, it has become a great neurological imitator. This course will provide participants a comprehensive exposure to the clinical presentation, diagnosis and management of this often vexing disorder. A case-based format will feature prominently, with audience discussion and expert commentary from the world's foremost authority on SIH, and this year's Penfield Lecturer, Dr. Wouter Schievink (Director, CSF Leak and Microvascular Neurosurgery Program and Professor, Neurosurgery, Cedars-Sinai Medical Center, Los Angeles CA). Neuroradiologist Dr. Manas Sharma (Assistant Professor, Western University, London Canada) will provide a comprehensive review of imaging diagnosis of SIH

and share innovative approaches to imaging diagnosis and interventions. Our lineup also includes a number of neurosurgery faculty (including Dr. Adrienne Weeks) and neurosurgery trainees who will present their most interesting case experiences, which should guarantee a stimulating discussion and exciting course.

By the end of this course participants will be able to:

- Understand the varied clinical presentations of SIH across the spectrum, including dementia and coma.
- Be aware of standard methods of imaging evaluation as well as newer approaches to diagnose cases with high clinical suspicion.
- Be familiar with the principles of treatment of SIH, and recent innovations for use in intractable cases.
- Learn about the rare and refractory behavioral variant of frontotemporal dementia due to SIH.

2:00 PM to 4:30 PM

Audience: Neurologist, Neurosurgeon, Neurosurgery & Neurology Trainee & Fellow, Nurses with interest in topic

Learning Level: Basic, Intermediate, and Advanced

Learning Format: Lecture/plenary method; Case Studies; Questions and Answers sessions. A minimum of 25% interaction will be featured as required for Group Learning Activity.

CanMED Roles: Medical Expert, Scholar, Collaborator

Start Time	Presentation Title	Name of Presenter
14:15	Intracranial hypotension: the importance of clinical history and how to avoid litigation	Amparo Wolf
14:30	SIH: A trompe l'oeil diagnosis	Enriqueta Lucar-Figueroa
14:45	Imaging the slump: Findings of intracranial hypotension	Manas Sharma
15:15	LV-EBP: Record-setting large volume epidural blood patch	DMichael Staudt
15:30	When to drain the brain or when to fix the leak?	Adrienne Weeks
15:45	The curious case of Mr. F.Z.	Stephen Lownie
16:00	Behavioural-variant frontotemporal dementia due to SIH	Wouter Schievink

4:30 PM to 7:00 PM	**Exhibitor's Reception** ▪ **Exhibitor's Reception »**
	Sponsors & Exhibitor's Reception 4:30 pm - 7:00 pm For Registered delegates Join your colleagues in the Halifax Conference Centre - Exhibit Hall for a welcome reception for our sponsors and exhibitors. This is an excellent opportunity to network with colleagues while checking out the latest developments regarding medical devices, pharmaceuticals and new opportunities and achievements within the neuroscience field. **Come for the Exhibitors – Stay for the munchies and cash bar.**

TOP

Tuesday | June 26, 2018

As courses are developed content will be added. Click on the course title to view the details.

Coffee served at 7:30am in Exhibit Hall Foyer. Coffee served at 10:45am and 4:30 pm in Exhibit Hall.

8:00 AM to 10:30 AM	**Child Neurology (CACN) Day** ▪ **Encephalopathy (8:00-10:30) »** ▪ **Encephalopathy (1:45-4:15) »** **Neurophysiology (CSCN) Day** ▪ **Beyond Routine EEG (8:00-10:30) »** ▪ **EMG (1:45-4:15) »** **Neurology (CNS) Day** ▪ **Neuro-immunology: Neuro-immunological diseases (8:00-10:30) »** ▪ **Neuro-immunology: Neurodiagnostics and neurotherapeutics (1:45-4:15) »** **Neurosurgery (CNSS) Day** ▪ **Controversies in Spinal Surgery-Cervical (8:00-10:30) »** ▪ **Controversies in Spinal Surgery-Lumbar (1:45-4:15) »** ▪ **Cranial-Skull base neurosurgery (8:00-10:30) »** ▪ **Cerebrovascular Disorders – endovascular and open approaches (1:45-4:15) »**

CACN Day	Encephalopathy (8:00-10:30) »
8:00 AM to 10:30 AM	**Co-chairs:** Michael Esser, Helly Goez **Course Description:** Child Neurology Day will focus on causes for encephalopathy in the practice of Child Neurology. The morning session will focus on causes for encephalopathy in the newborn and infant, while the afternoon will focus on causes of encephalopathy in childhood and adolescents. **By the end of this course participants will be able to:** • Understand the typical and hallmark features of encephalopathy throughout the various ages in the practice of Child Neurology • Describe the best diagnostic approach for evaluating and discerning the various causes of encephalopathy. • Determine the best therapeutic approach and counselling for conditions presenting with encephalopathy due to the various etiologies. • Understand the importance of multidisciplinary approach to diagnosis and management of these conditions **Audience:** Neurologist – Adult, Child Neurologist, Neurosurgeon, Neuro Physiologist, Resident, Fellow, Nurses with interest in topic **Learning Level:** Basic (Resident, New Information), Intermediate (Practicing Physician), Advanced (Higher Level Discussion) **Learning Format:** Lead in case presentation, followed by Lecture/plenary method, and wrapped up with case outcome **CanMED Roles:** Medical Expert, Scholar, Professional, To highlight the importance of collaborator and communicator especially in these cases

Start Time	Presentation Title	Name of Presenter
08:00	Welcome and Introduction	Michael Esser or Helly Goez
30 min 10 min discussion	Genetic encephalopathy – newborn and infant	Michelle Demos
30 min 10 min discussion	Neurotransmitter disorder new born and infant	Thomas Opladen
10 minutes	Break	

8:00 AM to 10:30 AM	30 min 10 min discussion	Metabolic encephalopathy – newborn and infant- leukodystrophies	Sunita Venkateswaran
	30 min 10 min discussion	Malformations of cortical development-	Harvey Sarnat
	10 minutes	Speaker/Panel Open discussion	Michael Esser or Helly Goez
CACN Day	**Encephalopathy (1:45-4:15) »**		
1:45 PM to 4:15 PM	**Co-chairs:** Michael Esser, Helly Goez **Course Description:** Child Neurology Day will focus on causes for encephalopathy in the practice of Child Neurology. The morning session will focus on causes for encephalopathy in the newborn and infant, while the afternoon will focus on causes of encephalopathy in childhood and adolescents. **By the end of this course participants will be able to:** Understand the typical and hallmark features of encephalopathy throughout the various ages in the practice of Child Neurology Describe the best diagnostic approach for evaluating and discerning the various causes of encephalopathy. Determine the best therapeutic approach and counselling for conditions presenting with encephalopathy due to the various etiologies. Understand the importance of multidisciplinary approach to diagnosis and management of these conditions **Audience:** Neurologist – Adult, Child Neurologist, Neurosurgeon, Neuro Physiologist, Resident, Fellow, Nurses with interest in topic **Learning Level:** Basic (Resident, New Information), Intermediate (Practicing Physician), Advanced (Higher Level Discussion) **Learning Format:** Lead in case presentation followed by Lecture/plenary method and wrapped up with case outcome **CanMED Roles:** Medical Expert, Scholar, Professional, To highlight the importance of collaborator and communicator especially in these cases		
	Start Time	**Presentation Title**	**Name of Presenter**
	13:15	Welcome and re-cap	Michael Esser or Helly Goez

1:45 PM to 4:15 PM	30 min 10 min discussion	Encephalopathy in Childhood	Walla El-Hertani
	30 min 10 min discussion	Epileptic Encephalopathies – link to genetics	Kenneth Myers
	10 min	Break	
	30 min 10 minute discussion	Mitochondrial encephalopathy of Adolescence	Ingrid Tein
	10 min	Toxic encephalopathies	Helly Goez
	30 min	Encephalopathy X-files- 3 cases	Speaker panel
	10 min	Wrap up and evaluations	Michael Esser and Helly Goez

Neurophysiology (CSCN) Day

CSCN Day

Beyond Routine EEG (8:00-10:30) »

8:00 AM to 10:30 AM

Co-chairs: Juan Pablo Appendino, José Téllez Zenteno

Course Description:

This year the Neurophysiology EEG Day course will explore other utilities of this exceptional clinical tool in both adults and paediatrics. The learner will be able to understand the benefits and limitations of ambulatory-EEG testing. The course will also reconnoiter the limitations, uses and indications for continuous EEG monitoring in the intensive care unit. Basics for understanding EEG trends as an alternative of conventional EEG will be convey. Lastly, the always exciting and intimidating understanding of invasive recording in 2D and 3D modalities will be explored.

By the end of this course participants will be able to:

- To appreciate the currently recommended indications for critical care EEG monitoring
- To understand the advantages and disadvantages of intracranial recording
- To recognize limitations and utility of the ambulatory-EEG recording
- To explore the basics of EEG trends and their applications

Audience: Adult Neurologist, Child Neurologist, Neuro-intensivist, Epileptologists, Neurosurgeon, Neurophysiologist, Resident, Fellow, Nurses with interest in topic

Learning Level: Basic (Resident, New Information), Intermediate (Practicing Physician)

	Learning Format: Audience response systems, touch pads, case studies, forum/panels, lecture/plenary method, question and answer sessions, seminar **CanMED Roles:** Medical Expert, Scholar, Communicator, Leader, Health Advocate, Professional
8:00 AM to 10:30 AM	**Start Time** / **Presentation Title** / **Name of Presenter** 08:00 Ambulatory-EEG: pearls and perils — Jose Téllez Zenteno 08:30 Invasive monitoring, SEEG vs Grid-Strips analysis — Richard S McLachlan 09:00 Quantitative EEG, basics for the non-specialist — Juan Pablo Appendino 09:30 Continuous EEG in ICU, utility and limitations — Cecil Hahn 10:00 Panel and cases discussion with multiple choice questions
CSCN Day	**EMG (1:45-4:15) »**
1:45 PM to 4:15 PM	**Co-chairs:** Fraser Moore, Steve Baker **Course Description:** The EMG course is a lecture based course (not a workshop) that will focus on the evaluation of selected disorders using EMG. It will be of interest both to physicians and technologists who perform EMG as well as to physicians who request EMG testing (as we will try to emphasize when an EMG is and is not useful). There will not be a practical component to the course (participants will not have the opportunity to practice techniques). **By the end of this course participants will be able to:** • Apply an EMG technique that is new to them to the evaluation of a patient with a suspected brachial plexopathy • Understand when to refer a trauma patient with suspected nerve injury for an EMG • Identify situations in which an EMG can be useful in the assessment of a ptient with a suspected myopathy • Differentiate between EMG findings in different hyperexcitability disorders **Audience:** Neurologist – Adult, Child Neurologist, Neurophysiologist, Resident, Fellow, Technologist, Medical Student **Learning Level:** Basic (Resident, New Information), Intermediate (Practicing Physician), Advanced (special interest, Higher Level Discussion)

Learning Format: Forum/panels, Lecture/plenary method, Question and answer sessions

CanMED Roles: Medical Expert, Scholar, Health Advocate, Professional

1:45 PM to 4:15 PM

Start Time	Presentation Title	Name of Presenter
13:45	Introduction	Steve Baker
13:50	The Electrodiagnostic Assessment of Brachial Plexopathy	Fraser Moore
14:15	Audience Question & Answer	
14:25	EMG in complex nerve trauma	Kristine Chapman
14:50	Audience Question & Answer	
15:00	The Electrodiagnostic Assessment of Suspected Myopathy	Ian Grant
15:25	Audience Question & Answer	
15:35	Hyperexcitability Disorders	Steve Vernino
16:15	Audience Question & Answer	

Neurology (CNS) Day

CNS Day

Neuro-immunology: Neuro-immunological diseases (8:00-10:30) »

8:00 AM to 10:30 AM

Chair: Claude Steriade

Course Description:

This course will provide a review of non-demyelinating central and peripheral autoimmune disorders, with a focus on diagnostic approach. A review of types of antineuronal autoantibodies and their identification methods will be followed by a review of classic and more recently described CNS syndromes associated with antineuronal autoantibodies. The course will then shift to peripheral autoimmunity, with a review of clinical presentations and laboratory testing. Illustrative cases will then be presented, with panel discussion, followed by audience Q&A.

By the end of this course participants will be able to:

- Develop framework of types of antigenic targets of antineuronal autoantibodies
- Outline central and peripheral nervous system non-demyelinating autoimmune syndromes
- Develop a diagnostic approach to suspected antibody-mediated syndromes
- Understand limitations and pitfalls of autoantibody testing

	Audience: Neurologist – Adult, Child Neurologist, Resident, Fellow **Learning Level:** Intermediate (Practicing Physician), Advanced (special interest, Higher Level Discussion) **Learning Format:** Case studies, forum/panels, lecture/plenary method, question and answer sessions **CanMED Roles:** Medical Expert, Scholar, Communicator, Collaborator, Professional
8:00 AM to 10:30 AM	**Start Time** / **Presentation Title** / **Name of Presenter** 08:00 — Welcome and Introduction — Claude Steriade 08:05 — CNS syndromes associated with antineuronal antibodies — Stacey Clardy 08:35 — Antigenic targets of neuronal autoantibodies — Andrew McKeon 09:05 — Peripheral nervous system autoimmune disorders — Hans Frykman 09:35 — Illustrative cases — Moderator: Claude Steriade Panel: Andrew McKeon, Stacey Clardy, Hans Frykman 10:15 — Audience question and answer — Panel: Andrew McKeon, Stacey Clardy, Hans Frykman, Claude Steriade
CNS Day	**Neuro-immunology: Neurodiagnostics and neurotherapeutics (1:45-4:15) »**
1:45 PM to 4:15 PM	**Chair:** Jodie Burton **Course Description:** The CNS Half Day course on Neuroimmunology Diagnostics and Therapeutics will focus on some of the more controversial and challenging topics in the field including such topics as differentiating Neuromyelitis Optica Spectrum Disorder from other antibody mediated disorders, and updates on burgeoning use of stem cell transplantation and plasmapheresis in a host of neuroimmunolgoical disorders. **By the end of this course participants will be able to:** • Understand the clinical, prognostic, treatment and assays differences between NMOSD and anti-MOG

- Understand the potential role stem cell transplantation may play in the care of neuroimmunological disease care
- Understand the mechanisms, role and application of plasmapharesis in treating neuroimmunological diseases
- An introduction into apheresism it's use in neurological disease, and review Canadian Apheresis Group data in neurology and future research directions

Audience: Neurologist – Adult, Child Neurologist, Neuroradiologist, Neurophysiologist, Resident, Fellow, Nurses with interest in topic

Learning Level: Intermediate (Practicing Physician), Advanced (special interest, Higher Level Discussion)

Learning Format: Case studies, demonstration, lecture/plenary method, question and answer sessions

CanMED Roles: Medical Expert, Scholar, Collaborator, Leader, Health Advocate, Professional

1:45 PM to 4:15 PM

Start Time	Presentation Title	Name of Presenter
13:45	Welcome and Introduction	Jodie Burton, Chair
13:55	Bone Marrow Transplant in Neurological Disease	Mark Freedman
14:30	Q&A	
14:35	How to differentiate NMOSD, anti-NMDA and anti-MOG syndromes	Tony Traboulsee
15:10	Q&A	
15:15	Apheresis in Neurology	Katerina Pavenski
15:50	Q&A	
15:55	Panel Discussion and Joint Q&A	All Speakers

Neurosurgery (CNSS) Day

CNSS Day

Controversies in Spinal Surgery-Cervical (8:00-10:30) »

8:00 AM to 10:30 AM

Co-chairs: Sean Christie and Eric Massicotte

Course Description:

The Spine "Controversies Course" is focusing on two common conditions seen daily in general neurosurgical practice – cervical spondylotic myelopathy (CSM) and degenerative lumbar spondylolisthesis (DLS). The morning session will address the surgical approaches to CSM and the afternoon will include an introduction to the concept of sagittal balance, before contemplating the role of fusion in DLS. This course will utilize a 'debate' format and the audience will participate via Audience Response System.

By the end of this course participants will be able to:

- Describe the pros and cons of anterior and posterior approaches for CSM
- Discuss the concept of Sagittal balance
- Relate the strengths and weakness of lumbar fusion for DLS

Audience: Neurosurgeon, Neurologist – Adult, Neuroradiologist, Neurophysiologist, Resident, Fellow, Nurses with interest in topic

Learning Level: Intermediate (Practicing Physician), Advanced (special interest, Higher Level Discussion)

Learning Format: Audience response systems, case studies, discussion group/ peer exchange/ user groups, forum/panels, lecture/plenary method, question and answer sessions, seminar, small group discussion

CanMEDs Roles: Medical Expert, Scholar, Communicator, Collaborator, Health Advocate, Professional

8:00 AM to 10:30 AM

Start Time	Presentation Title	Name of Presenter
08:00	Welcome and Introductory Remarks	Eric Massicotte and Sean Christie
08:10	Presentation of a Case of Cervical Spondylotic Myelopathy (CSM)	Eric Massicotte
08:15	Audience Questions and Interactive Voting	Sean Christie
08:20	Is there a role for Cervical Disc Replacement in the setting of CSM?	Naj Attabib
08:50	Anterior Discectomy and Fusion is the Ideal Approach	Jamie Wilson
09:20	Posterior decompression is the Ideal Approach	Ayoub Dakson
09:50	Questions for Panelists and Rebuttals	Eric Massicotte
10:10	Interactive Voting	Sean Christie
10:15	General Discussion and Closing Remarks	Sean Christie and Eric Massicotte

CNSS Day

Controversies in Spinal Surgery-Lumbar (1:45-4:15) »

1:45 PM to 4:15 PM

Co-chairs: Sean Christie and Eric Massicotte

Course Description:

The Spine "Controversies Course" is focusing on two common conditions seen daily in general neurosurgical practice – cervical spondylotic myelopathy (CSM) and degenerative lumbar spondylolisthesis (DLS). The morning session will address the surgical approaches to CSM and the afternoon will include an introduction to the concept of sagittal balance, before contemplating the role of fusion in DLS. This course will utilize a 'debate' format and the audience will participate via Audience Response System.

By the end of this course participants will be able to:

- Describe the pros and cons of anterior and posterior approaches for CSM
- Discuss the concept of Sagittal balance
- Relate the strengths and weakness of lumbar fusion for DLS

Audience: Neurosurgeon, Neurologist – Adult, Neuroradiologist, Neurophysiologist, Resident, Fellow, Nurses with interest in topic

Learning Level: Intermediate (Practicing Physician), Advanced (special interest, Higher Level Discussion)

Learning Format: Audience response systems, case studies, discussion group/ peer exchange/ user groups, forum/panels, lecture/plenary method, question and answer sessions, seminar, small group discussion

CanMEDs Roles: Medical Expert, Scholar, Communicator, Collaborator, Health Advocate, Professional

1:45 PM to 4:15 PM

Start Time	Presentation Title	Name of Presenter
13:45	Welcome and Introductory Comments	Sean Christie and Eric Massicotte
13:55	Presentation of a Case of Lumbar Spondylolisthesis	Eric Massicotte
14:00	Audience Questions and Interactive Voting	Sean Christie
14:05	What is sagittal balance all about?	Sean Christie
14:35	Don't Fear the Fusion	Jamie Wilson
15:05	All you Need is Decompression	Ayoub Dakson
15:35	Questions for Panelists and Rebuttals	Sean Christie
15:55	Interactive Voting	Sean Christie
16:00	General Discussion and Closing Remarks	Eric Massicotte and Sean Christie

CNSS Day	Cranial-Skull base neurosurgery (8:00-10:30) »

Co-chairs: Kesh Reddy, Fahad Alkheray

Course Description:

Different pathologies including benign and malignant tumors can affect the skull base area. Given the complexity of the skull base area different surgical approaches has been utilized by neurosurgeons. Those approaches ranges from extensive open surgical approaches to minimally invasive endoscopic approaches. On these session speakers in interactive format, will discuses different surgical and treatment modalities for different pathologies affecting the skull base.

By the end of this course participants will be able to:

- Appreciate the nature and clinical course of skull base lesions
- Be familiar with various surgical treatments for various skull base pathologies
- Discuss the role of stereotactic radiosurgery in the treatment of different skull base pathologies.

Audience: Neurosurgeon, Neurologist – Adult, Child Neurologist, Neuroradiologist, Neurophysiologist, Resident, Fellow, Nurses and others with interest in topic

Learning Level: Intermediate (Practicing Physician), Advanced (special interest, Higher Level Discussion)

8:00 AM to 10:30 AM

Learning Format: Audience response systems, case studies, demonstration, discussion group/ peer exchange/ user groups, forum/panels, lecture/plenary method, question and answer sessions

CanMED Roles: Medical Expert, Scholar, Communicator, Collaborator, Health Advocate, Professional

Start Time	Presentation Title	Name of Presenter
08:00	Welcome and Introduction	Fahad Alkherayf
08:05	Anterior and medial cranial fossa; when to choose open surgical approaches?	Martin Cote
08:30	Anterior and medial cranial fossa; when to chose endoscopic surgical approaches?	Fahad Alkherayf
08:55	Lesions of the Posterior cranial fossa	Royojo Akagami
09:20	Role of stereotactic surgery in skull base lesions	Gwynned Pickett
09:45	State of the art and decision making in the therapy of skull base lesions	Kesh Reddy
10:10	Interactive case discussion Audience Question & Answer	Kesh Reddy Moderator; Panel –Martin Cote, Fahad Alkherayf, Royojo Akagami, Gwynne Pickett

CNSS Day	Cerebrovascular Disorders – endovascular and open approaches (1:45-4:15) »
1:45 PM to 4:15 PM	**Co-Chairs:** Cian OKelly, Stephen Lownie **Course Description:** Our course begins with Dr. Stacey Q. Wolfe (Associate Professor and Program Director in Neurosurgery, Wake Forest University Baptist Medical Center, Winston-Salem, North Carolina) who will provide insights into approaches to cranial dural arteriovenous fistulas. An interactive 20 minutes with experts and audience will follow, with Dr. OKelly and Dr. Lownie moderating cases of dAVF and decision making regarding management. Next Dr. Pablo Lopez-Ojeda (Bellvitge University Hospital, Barcelona, Spain) will discuss monitoring during cerebral AVM treatment, followed by expert and audience participation during case reviews. Lastly Dr. Lissa Peeling (University of Saskatchewan, Saskatoon, Saskatchewan) will present on endovascular versus open treatment of cerebral aneurysms, followed by final group of case presentations. This novel course format should provide a lively and stimulating experience for course participants. **By the end of this course participants will be able to:** • Understand the approaches to the treatment of cranial dural arteriovenous fistulas • Be aware of new methods of monitoring during treatment of cerebral arteriovenous malformations • Understand the pros and cons of endovascular versus open surgical repair of aneurysms **Audience:** Neurosurgeon, Neurosurgery Resident, Neurosurgery Fellow, Nurses with interest in topic **Learning Level:** Basic, Intermediate, and Advanced **Learning Format:** Lecture/plenary method; Case Studies; Questions and Answers sessions. A minimum of 25% interaction will be facilitated, as required for a Group Learning Activity. **CanMED Roles:** Medical Expert, Scholar, Collaborator

Start Time	Presentation Title	Name of Presenter
13:45	Endovascular and surgical approaches to cranial dAVF	Stacey Q. Wolfe
14:15	Cases with expert and audience participation	Cian OKelly and Stephen Lownie
14:35	Monitoring during cerebral AVM treatment	Pablo Lopez-Ojeda
15:05	Cases with expert and audience participation	Cian OKelly and Stephen Lownie
15:25	Endovascular versus open treatment of cerebral aneurysm	Lissa Peeling
15:55	Cases with expert and audience participation	Cian OKelly and Stephen Lownie

10:45 AM to 11:45 AM

Poster Moderated Session

- **Session Schedule »**

Session#	Date	Time	Room	Session Name
TP1	Tue, June 26	10:45 - 11:45	Poster Station 1	Epilepsy and EEG 2
TP2	Tue, June 26	10:45 - 11:45	Poster Station 2	Neuro-oncology 3
TP3	Tue, June 26	10:45 - 11:45	Poster Station 3	Neurovascular, Stroke and Neurointerventional 2
TP4	Tue, June 26	10:45 - 11:45	Poster Station 4	Neuromuscular Disease and EMG
TP5	Tue, June 26	10:45 - 11:45	Poster Station 5	Other Adult Neurology / Headache
TP6	Tue, June 26	10:45 - 11:45	Poster Station 6	Dementia and Cognitive Disorders
TP7	Tue, June 26	10:45 - 11:45	Poster Station 7	Other Neurosurgery (Adult and Paediatric)
TP8	Tue, June 26	10:45 - 11:45	Poster Station 8	Spine and Peripheral Nerve Surgery
TP9	Tue, June 26	10:45 - 11:45	Poster Station 9	Other Pediatric Neurology

12:00 PM to 1:30 PM

Lunch 'n Learn

- **Thinking ahead: New treatment options for migraine prevention »**

Chair: Dr. David Clarke

Course Description:

This Lunch & Learn session will focus on new and emerging OR technologies that are – or soon will be – relevant to the practice of most neurosurgical groups. The focus of the session will be on technologies that will have a significant impact on current practice patterns. Specific topics to be addressed include a new cranial robot, the Stealth Autoguide, laser ablation, as well as novel applications to spine and cranial surgery in the new O-arm.

By the end of this course participants will be able to:

- Appreciate the impact of new technologies to the operating room environment

12:00 PM to 1:30 PM	• Identify specific OR technologies applicable to the participant's own practice • Assess the usefulness of specific novel OR technologies • Discuss practical issues concerning introduction of new technologies **Audience:** Neurosurgeon, Neurophysiologist, Resident, Fellow, OR Nurses, Other **Learning Format:** Seminar, with potential hands-on demonstration at the end **CanMED Roles:** Medical Expert, Manager, Collaborator and Communicator
	Time / **Description** / **Name of Presenter** 12:00pm / Beginning of the session/Introductions / Dr. David Clarke 12:10 / The Stealth Autoguide / Dr. David Clarke 12:25 / Laser Ablation / Dr. Brian Toyota 12:40 / The O-arm / Dr. Sean Christie 1:00 / Q&A and Hands on Demo / Presenters/Medtronic Staff 1:25 / Evaluation & Wrap Up / Dr. David Clarke
	Lunch in the Exhibit Hall
12:00 PM to 1:30 PM	**Lunch in the Exhibit Hall »** For Registered delegates Enjoy some lunch, network with colleagues and check out the latest developments in medical devices, pharmaceuticals and opportunities in the neurosciences.
	Maritime Lobster Dinner & Kitchen Party
7:00 PM to 11:00 PM	**Maritime Lobster Dinner & Kitchen Party »** Reception at 7:00pm Dinner and Dancing at 8:00pm Location: Cunard Centre. Socialize with your friends and colleagues on historic Pier 23 along the Halifax harbor front while enjoying a traditional lobster feast! The dance with great music starts after dinner. Tickets are $90 per person plus taxes and are available when registering for the Congress.

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Wednesday| June 27, 2018

As courses are developed content will be added. Click on the course title to view the details.

Coffee served at 7:30am and 9:00am (15 minute break).

8:00 AM to 9:00 AM

Chair's Select Abstracts

- **CNS**
- **CSCN/CACN**
- **CNSS**

Schedule »

Session#	Date	Time	Room	Session Name
A	Wed, June 27	08:00 - 09:00	Rm 108	CNS Chair's Select Abstracts
B	Wed, June 27	08:00 - 09:00	Rm 109	CSCN / CACN Chair's Select Abstracts
C	Wed, June 27	08:00 - 09:00	Rm 103	CNSS Chair's Select Abstracts

9:15 AM to 11:30 AM

Hot Topics

- **Hot Topics in Neurology: Top Papers »**
- **Hot Topics in Neurosurgery »**
- **Hot Topics in Child Neurology: Top 5 Papers »**
- **Hot Topics in Clinical Neurophysiology: Advances in Epilepsy »**

Hot Topic

Hot Topics in Neurology: Top Papers »

9:15 AM to 11:30 AM

Chair: Steven Peters

Course Description:

A fast paced, interactive look at select papers and topics in general neurology and subspecialties including stroke, ethics and general neurology. We examine blockbuster papers as well as overlooked but practice changing publications.

9:15 AM to 11:30 AM	**By the end of this course participants will be able to:** • Learn and understand the practical implications of recent publications in neurology and neurologic sub-specialties • Name evolving ethical challenges in neurology • Understand technological **Audience:** Neurologist – Adult, Child Neurologist, Neurosurgeon, Neuroradiologist, Neurophysiologist, Resident, Fellow, Nurses with interest in topic **Learning Level:** Basic (Resident, New Information), Intermediate (Practicing Physician) **Learning Format:** Audience response systems, lecture/plenary method **CanMED Roles:** Medical Expert, Scholar, Communicator, Professional

Start Time	Presentation Title	Name of Presenter
9:15	Introduction	Steven Peters
9:20	Full Steam Ahead – Hot Topics in Stroke	Amy Yu
9:55	Questions	Amy Yu
10:00	Checking your 'Nets – Technology for the Neurologist	Steven Peters
10:35	Question	Steven Peters
10:40	Sailing to the horizon – Hot Papers in Multiple Sclerosis	Natalie Parks
11:15	Questions	Natalie Parks

Hot Topic	**Hot Topics in Neurosurgery »**
9:15 AM to 11:30 AM	**Chair:** Stephen Lownie **Course Description:** Our exciting lineup includes Dr. David Steven (Associate Professor, London, Ontario, and Vice-Chair, RCPSC Examination Committee in Neurosurgery) sharing his experience in global neurosurgery in South America and the Middle East. Next Dr. Stacey Q. Wolfe (Associate Professor and Program Director in Neurosurgery, Wake Forest University Baptist Medical Center, Winston-Salem, North Carolina) will provide insights into learning and teaching styles, new methods of evaluation, trends in US recruitment and retention of neurosurgery residents, and characteristics of the millennial "psyche." Dr. Patrick McDonald (Associate Professor and Head of Pediatric Neurosurgery, UBC) will speak on ethics, with particular emphasis on the media's role. Dr. Raj Midha (Professor and Head, Department of Clinical Neurosciences, University of Calgary) will then speak on advances in peripheral nerve surgery.

9:15 AM to 11:30 AM	**By the end of this course participants will be able to:** • Understand the opportunities and challenges in global neurosurgery • Be aware of new methods of evaluation and trends in recruitment and retention of neurosurgery trainees • Be familiar with the importance of ethics in neurosurgery and the role of the media for better or worse • Learn about the latest advances in peripheral nerve repair **Audience:** Neurosurgeon, Neurosurgery Resident, Neurosurgery Fellow, Nurses with interest in topic **Learning Level:** Basic, Intermediate, and Advanced **Learning Format:** Lecture/plenary method; Case Studies; Questions and Answers sessions. A minimum of 25% interaction will be is required for a Group Learning Activity. **CanMED Roles:** Medical Expert, Scholar, Collaborator
	Start Time / **Presentation Title** / **Name of Presenter** 09:15 / Globalization in Neurosurgery: Experiences in South America and the Middle East / David Steven 09:45 / Education in Neurosurgery: Educating Our Next Generation / Stacey Q. Wolfe 10:15 / Ethics in Neurosurgery from tethered cords to Chiari's to head transplants: Geniuses or charlatans? / Patrick McDonald 10:45 / Advances in Neurosurgery: Peripheral Nerve Repair / Raj Midha
Hot Topic	**Hot Topics in Child Neurology: Top 5 Papers »**
9:15 AM to 11:30 AM	**Chair:** Elizabeth Donner **Course Description:** We have surveyed the membership for the most exciting and relevant child neurology research published over the last year. During this session, investigators and experts in the field will use rapid-fire presentations to share exciting Canadian developments in child neurology. There will be time for audience questions and comments. **By the end of this course participants will be able to:** • At the end of this course participants will be up to date on the most interesting and relevant Canadian advances in Child Neurology in the last year.

9:15 AM to 11:30 AM	**Audience:** Neurologist – Adult, Child Neurologist, Neurosurgeon, Neuroradiologist, Neurophysiologist, Resident, Fellow, Nurses with interest in topic **Learning Level:** Basic (Resident, New Information), Intermediate (Practicing Physician) **Learning Format:** discussion, peer exchange, rapid-fire presentations **CanMED Roles:** Medical Expert, Scholar, Communicator, Collaborator, Leader, Health Advocate, Professional
	Start Time / **Presentation Title** / **Name of Presenter** 09:15 / Introduction / Elizabeth Donner 09:20 / Paper #1 09:40 / Paper #2 10:00 / Paper #3 10:20 / Paper #4 10:40 / Paper #5 11:00 / Paper #6
Hot Topic	**Hot Topics in Clinical Neurophysiology: Advances in Epilepsy »**
9:15 AM to 11:30 AM	**Chair:** José Téllez Zenteno **Course Description:** This year we have a very exiting session reviewing some of the most recent advances in epilepsy. Dr. Fisher will discuss the use of deep brain stimulation to treat patients with intractable epilepsy, including a discussion of the most important findings of the SANTE trial. Dr. Mirsattari will review some of the most recent updates about autoimmune epilepsy, including EEG findings, treatment and prognosis. Dr. McLachlan will describe the history of cannabis as a treatment for epilepsy. He will also discuss some of the most recent trials. Finally, Dr. Hunter will discuss the most updated treatment of Refractory Status Epilepticus. The audience will learn about some of the most recent advances in the field of epilepsy. **By the end of this course participants will be able to:** • Know the use and indications of deep brain stimulation as a treatment for intractable epilepsy • Identify the most important clinical, EEG and imaging findings of autoimmune epilepsies • Learn the history of cannabis as a treatment for epilepsy • Update the knowledge about diagnosis, treatment and prognosis of Refractory Status Epilepticus

9:15 AM to 11:30 AM	**Audience:** Neurologist – Adult, Child Neurologist, Neurosurgeon, Neuro Physiologist, Resident, Fellow, Nurses with interest in topic, EEG technologists **Learning Level:** Basic (Resident, New Information) to Advanced (SIG, Higher Level Discussion) **Learning Format:** Case studies, Demonstration, Discussion group/ peer exchange **CanMED Roles:** Medical Expert, Scholar, Communicator, Collaborator, Manager, Health Advocate, Professional **Agenda:**

Start Time	Presentation Title	Name of Presenter
09:15	Welcome and Introduction	Jose Tellez-Zenteno
09:15	Epilepsy: a network disease	Andrea Bernasconi
09:45	Autoimmune epilepsies. An update	Seyed Mirsattari
10:15	Cannabis as a treatment for epilepsy. History and updates	Rick McLachlan
10:45	Refractory Status Epilepticus - New options and approaches	Gary Hunter

11:15 AM to 12:30 PM	**Lunch in the Exhibit Hall**
11:15 AM to 12:30 PM	**Shaping Our Congress and Our Federation:** Your hand in planning the future of Continuing Medical Education in Canadian Neurosciences
11:45 AM to 12:15 PM	**Dance in Parkinson's - Research to Practice** Demonstration and Discussion
	Grand Rounds
12:30 PM to 2:30 PM	**Grand Rounds »** **Chair**: Alex Henri-Bhargava **CACN** (Child Neurology): Abdulla Alawadhi **CNS** (Adult Neurology): Caitlin Jackson-Tarlton with Natalie Parks. **CNSS** (Neurosurgery): Aaron Robichaud with P Daniel McNeely.

3:00 PM to 8:00 PM	**Resident Course External to Congress** Surgical approaches to the lateral and third ventricles

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2018 Abstract Presentation Formats

Digital Poster Presentation

Authors with abstracts selected for electronic posters, will have an opportunity to showcase their work to CNSF Congress delegates at multiple large screen viewing stations.

Presenting authors will also receive a scheduled time for stand-by poster presentation which allows for 4 minutes of oral presentation and 2 minutes for questions, review and discussion.

On-site digital posters will also be available in an online format for all Congress delegates.

SPC Chair's Select Abstract Presentation

The Scientific Program Committee Chair's will select the top Abstracts submitted, for presentation during the Chair's Select Presentations.

Presenting authors will receive a scheduled time for their oral presentation which allows for 6 minutes of oral presentation and 2 minutes allotted for questions, review and discussion.

Society Prize Winner Presentation

Authors that have been awarded a 201 Society Prize will have the opportunity to present their work during the Grand Plenary session at the CNSF Congress.

Presenting authors will be given 6 minutes for oral presentation and 2 minutes for questions, review and discussion.

Audio Visual for Abstract Presentations

Standard Equipment:
Data projection will be provided. The standard format is 640 x 480 for MAC or PC. Please note computers will be supplied and a Speaker Ready Room will be available. Authors will be responsible for delivery of their presentations to the Speaker Ready Room 3 hours before their scheduled time.

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2018 Abstracts

CNSF 2018 Congress Abstract Program (interactive)

2018 CNSF Abstract Supplement to the CJNS Journal

2017 CNSF Abstract Supplement to the CJNS Journal

2016 CNSF Abstract Supplement to the CJNS Journal

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2018 Society Prize Winners

Congratulations to the following CNSF members that have been awarded 2018 Society Prizes.

Be sure to attend the Grand Plenary session on Monday morning when they will present their work alongside our prestigious Plenary Guest speakers.

Canadian Neurosurgical Society (CNSS)

K.G. McKenzie Memorial Prize for Basic Neuroscience Research
Winner: Christopher Ahuja
Abstract Title: SMaRT Human Neural Stem Cells to Degrade Scar and Optimize Regeneration after Traumatic Cervical Spinal Cord Injury

Canadian Neurosurgical Society (CNSS)

K.G. McKenzie Memorial Prize for Clinical Neuroscience Research
Winner: Amparo Wolf
Abstract Title: The Risk of Malignancy after Stereotactic Radiosurgery

Canadian Association of Child Neurology (CACN)

President's Prize
Winner: Abdulla Alawadhi
Abstract title: Immune Deficiencies/Dysregulations Underpinning Childhood Limbic Encephalitis: a case series and literature review

Canadian Neurological Society (CNS)

Andre Barbeau Memorial Prize for Basic Research
Winner: Saud Alhusaini
Abstract title: The Relationship Between Carotid Stenosis, Cerebral Cortex Structure and Cognitive Function at Age 73

Canadian Neurological Society (CNS)

Francis McNaughton Memorial Prize for Clinical Research
Winner: Natalie Parks
Abstract Title: A Population-based Study of "No Evident Disease Activity" (NEDA) in Multiple Sclerosis

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Society & Business Meetings

Society AGMS

Society Annual General Meetings

- **Canadian Neurological Society (CNS)**
  Sunday, June 24th, 4:30 p.m. – 5:30 p.m.
  Halifax Conference Centre – Room 614

- **Canadian Neurosurgical Society (CNSS)**
  Monday, June 25th, 12:15 pm – 1:45 pm
  Halifax Conference Centre – Room 614

- **Canadian Society of Neuroradiology (CSNR)**
  Monday, June 25th, 12:15 pm – 1:45 pm
  Halifax Conference Centre – Room 615

- **Canadian Society of Clinical Neurophysiologists (CSCN)**
  Tuesday, June 26th, 4:30 pm – 6:00 pm
  Halifax Conference Centre – Room 104

- **Canadian Association of Child Neurology (CACN)**
  Tuesday, June 26th, 4:30 pm – 6:00 pm
  Halifax Conference Centre – Room 102

Business Meetings

Date	Time	Room
Saturday, June 23rd		
CNSF and NSFC Board Meetings	5:00 pm – 7:30 pm	Prince George Hotel – Windsor Room
Monday, June 25th		
CSCN EEG Section Meeting	7:00 am – 8:00 am	Halifax Convention Centre – Room 102
CSCN EMG Section Meeting	12:15 pm – 1:45 pm	Halifax Convention Centre – Room 102
CNSF SPC / PDC Committee Meeting	4:30 pm – 6:00 pm	Halifax Convention Centre – Room 614
CAET	3 day meeting	Halifax Convention Centre – A3
Tuesday, June 26th		

CJNS Journal Editorial Board & Associate Editors Meeting	6:30 am – 8:00 am	Halifax Convention Centre – Room 605
RCPSC - Neurosurgery Specialty Committe	12:30 pm - 3:00PM	Halifax Convention Centre - Room 605
CAET	3 day meeting	Halifax Convention Centre – Room A3
AETC	2 day meeting	Halifax Convention Centre – Room 612-613

Wednesday, June 27th

CAET	3 day meeting	Halifax Convention Centre – Room A3
AETC	2 day meeting	Halifax Convention Centre – Room 612-613

CSCN Exams

- General Information
- EEG Examinations
- EMG Examinations

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Networking & Social Events

Sunday, June 24, 2018

Resident and Faculty Social 7:30 pm For Registered delegates
The Resident and Faculty Social will be held in the **Prince George Hotel – Windsor** Room and will provide participants with an occasion to network in an informal setting. There will also be a job fair at this social event. Staff physicians and academic centres that are hiring for fellowships and staff positions will be present and residents will be able to learn about available opportunities.

This event should provide a great setting for forging relationships and enjoying the company of colleagues. Enjoy hot and cold hors d'oeuvres. Cash bar will be available.

Monday, June 25, 2018

Sponsors & Exhibitor's Reception 4:30 pm - 7:00 pm For Registered delegates
Join your colleagues in the Halifax Conference Centre - Exhibit Hall for a welcome reception for our sponsors and exhibitors. This is an excellent opportunity to network with colleagues while checking out the latest developments regarding medical devices, pharmaceuticals and new opportunities and achievements within the neuroscience field.

Come for the Exhibitors – Stay for the munchies and cash bar.

Tuesday, June 26, 2018

Lunch in the Exhibit Hall 12:00 pm - 1:30 pm For Registered delegates

Enjoy some lunch, network with colleagues and check out the latest developments in medical devices, pharmaceuticals and opportunities in the neurosciences.

CNSF Delegates Social Event – 7:00 pm at the Cunard Centre - $90.00 per person

MARITIME LOBSTER DINNER AND KITCHEN PARTY

Socialize with your friends and colleagues at the Cunard Centre on historic Pier 23 along the Halifax Harbourfront while enjoying a traditional lobster feast! After dinner dance with live music by BIG FISH.

Open to ticket holders only. Tickets must have been pre-ordered through the online Congress Registration. If you have already registered for the Congress and would now like to purchase tickets for the Lobster Dinner, please contact Silvie from the registration team at: cnsf@intertaskconferences.com

Wednesday, June 27, 2018

Lunch in the Exhibit Hall 11:15 am - 12:30 pm For Registered delegates

Join us for lunch in the Exhibit Hall and one last tour of the Exhibitors' booths.

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Overall Congress Learning Objectives

By the end of the Congress, delegates will be able to:

- Discuss advances in the management of acute and chronic neurological and neurosurgical disorders.
- Discuss new findings in neurological and neurosurgical disorders.
- Describe advances in neurological care and/or neurosurgical techniques.
- Identify areas where there are gaps in learning (unperceived needs) not realized before attending the Congress and extend this professional learning after the Congress to the enhanced care of patients.

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Maintenance of Certification (MOC)

Maintenance of Certification program of The Royal College of Physicians and Surgeons of Canada, and approved by the Canadian Neurological Society and the Canadian Neurosurgical Society.

Section 1 Group Learning MOC Credit
The 2018 Scientific Program has received approval as an Accredited Group Learning Activity (Section 1) as defined by the Maintenance of Certification program of The Royal College of Physicians and Surgeons of Canada and approved by Canadian Neurological Society.

AMA PRA Category 1 Credit™
Upon the Congress being accepted for Section 1 MOC credits, and through an agreement between the Royal College of Physicians and Surgeons of Canada and the American Medical Association, physicians may convert Royal College MOC credits to AMA PRA Category 1 Credits™. Information on the process to convert Royal College MOC credit to AMA credit can be found at www.ama-assn.org/go/internationalcme.

UEMS ECMEC Credit
Upon the Congress being accepted for Section 1 MOC credits Live educational activities, occurring in Canada, recognized by the Royal College of Physicians and Surgeons of Canada as Accredited Group Learning Activities (Section 1) are deemed by the European Union of Medical Specialists (UEMS) eligible for ECMEC®.

Certificate of Attendance

Certificates of Attendance will be sent to Congress delegates in July when the online Overall Congress Evaluation closes. You will complete your certificate by tallying MOC Hours for the courses that you attended at the Congress. Questions? Please direct email to donna-irvin@cnsfederation.org.

Proof of Participation

Your registration receipts and your personal name tag, provided upon check in at the Congress on-site Registration Desk, will serve as your Proof of Participation.

MOC Hours

Date	Session Title	MOC Hours
Sunday June 24, 2018	**Stroke – Latest Developments in Ischaemic Stroke**	2.50
	Neurological Determination of Death	2.50
	Neurology Residents' Course - Neurogenetics and Neurometabolics for the Child and Adult Neurologist	2.50
	Neurosurgery Residents' Course – Intracranial Hypotension and Disorders of CSF	2.50
	Poster Moderated Sessions	1.00
	Lunch 'n Learn: Thinking Ahead: New Treatment Options for Migraine Prevention	1.50
	Stroke – Latest Developments in Intercranial Hemorrhage	2.50
	Epilepsy	2.50
	Neurology Residents' Course - Neurogenetics and Neurometabolics for the Child and Adult Neurologist	2.50
	Neurosurgery Residents' Course – Neurosurgery Hot Seat	2.50
	Neuromuscular – Clinical Case Studies	2.00
	Epilepsy Video Session – Clinical Case Studies	2.00
	Neurosurgery-Fireside Chat - Clinical Case Studies	2.00
	Movement Disorders – Clinical Case Studies	2.00
	Case Based Session-Neuroradiology – Clinical Case Studies	2.00
	Sunday – Total possible hours	**9.50**

Monday June 25, 2018	**Grand Plenary Lectures** **CSNR – Terbrugge Lecture (Neuroradiology) - Jean Raymond** **CNS – Richardson Lecture (Neurology) – Mark Freedman** **CSCN - Gloor Lecture (Neurophysiology) – Robert Fisher** **CACN - Tibbles Lecture (Child Neurology) – Thomas Opladen** **CNSS - Penfield Lecture (Neurosurgery) – Wouter Schievink** **Society Prize Winning Paper Presentations**	3.50
	Neuromuscular	2.50
	Current Status of Neuro Palliative Care in Canada: Supportive Care for Patients and Families with Neurological Illness	2.50
	Movement Disorders	2.50
	Early Career Development	2.50
	Intracranial Hypotension: A Course for Neurologists and Neurosurgeons	2.50
	Monday – Total possible hours	**6.00**
Tuesday **June 26, 2018**	**Child Neurology (CACN) Day: AM – Encephalopathy**	2.50
	Child Neurology (CACN) Day: PM – Encephalopathy	2.50
	Neurophysiology (CSCN) Day: AM – Beyond Routine EEG	2.50
	Neurophysiology (CSCN) Day: PM – EMG	2.50
	Neurology (CNS) Day - AM – Neuro-immunology: Neuro-immunological Diseases	2.50
	Neurology (CNS) Day - PM – Neuro-immunology: Neurodiagnostics and Neurotherapeutics	2.50
	Neurosurgery (CNSS) Day: AM – Controversies in Spinal Surgery-Cervical	2.50

	Neurosurgery (CNSS) Day: AM – Cranial-Skull Base Neurosurgery	2.50
	Neurosurgery (CNSS) Day: PM – Controversies in Spinal Surgery-Lumbar	2.50
	Neurosurgery (CNSS) Day: PM – Cerebrovascular Disorders – Endovascular and Open Approaches	2.50
	Poster Moderated Sessions	1.00
	Tuesday – Total possible hours	**6.00**
Weds, June 27, 2018	**CNS, CACN/ CSCN, CNSS/CSNR Chair's Select Abstract Presentations**	1.00
	Hot Topics in Neurology: Top Papers	2.00
	Hot Topics in Neurosurgery	2.00
	Hot Topics in Child Neurology: Top 5 Papers	2.00
	Hot Topics in Clinical Neurophysiology: Advances in Epilepsy	2.00
	Grand Rounds	2.00
	Wednesday – Total possible hours	**5.00**

Maximum possible hours for a 4 full day delegate attendance would be 26.50 hours

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Sponsors

Organizations partner with the CNSF by supporting the Congress, advertising in the Canadian Journal of Neurological Sciences or by contributing to other CNSF initiatives.

The CNSF Congress is the major gathering of Canadian neurologists, child neurologists, clinical neurophysiologists and neurosurgeons. Every June, members of the four CNSF societies, invited speakers and other members of the neurological community meet in a major Canadian city to fulfill their continuing professional development requirements for the RCPSC and to network and meet with their colleagues and industry peers.

View Current & Past Sponsors

For information on Sponsorship opportunities, please contact:

Dan Morin
CNSF Chief Executive Officer
Telephone: (403) 229-9544
Fax: (403) 229-1661
Email: dan-morin@cnsfederation.org

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Exhibitor Information

Book your 2018 Exhibit Hall Space early! We have sold out the past 3 years!

- Exhibit Application
- Exhibit Hall Floor Plan
- Exhibitor Manual

We look forward to working with you as you plan your successful participation in CNSF 2018 being held:

- in Halifax, NS
- at the Halifax Convention Centre
- **Sunday**, June 24 - **Wednesday**, June 27 (note: the new date range for 2018!)

Should you have any questions please contact:

Rozanne Lyons, CMP
Exhibit Logistics
613-238-6600 ext. 221
cnsf@intertaskconferences.com

2018 - EXHIBIT MOVE-IN (SET-UP)* - Convention Hall C2-C4

DAY	DATE	HOURS
Monday	June 25	10:00 to 15:30

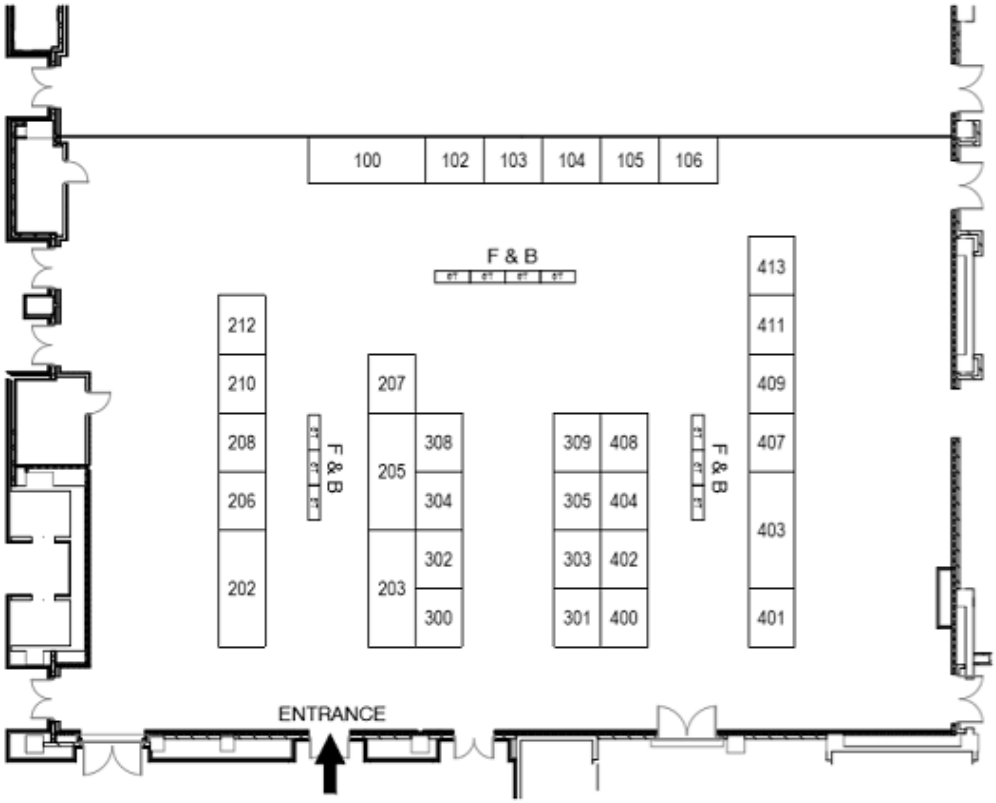
EXHIBIT SHOW HOURS

DAY	DATE	HOURS
Monday	June 25	16:30 to 19:00
Tuesday	June 26	10:00 to 18:00
Wednesday	June 27	10:00 to 12:30

EXHIBIT MOVE-OUT (DISMANTLING)

DAY	DATE	HOURS
Wednesday	June 27	12:30 to 19:30

*Times subject to change



For information on the Exhibit Hall, please contact Exhibitor Logistics:

Intertask Conferences
Tel: 613-238-6600 ext 221, Fax:613-236-2727
cnsf@intertaskconferences.com

For information on Sponsorship / Exhibit Hall, please contact:

Dan Morin, CNSF CEO
143N-8500 Macleod Trail SE
Calgary, AB T2H 2K6
Tel: (403) 229-9544, Fax: (403) 229-1661
Dan-morin@cnsfederation.org
www.cnsfederation.org

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Onsite Exhibits

Welcome to the 2018 On-Site Exhibits!

Halifax Convention Centre - Convention Hall C2-C4

Take some time during the Congress to visit Exhibitors working with the Neurological Community to assist with better care and treatment for your patients.

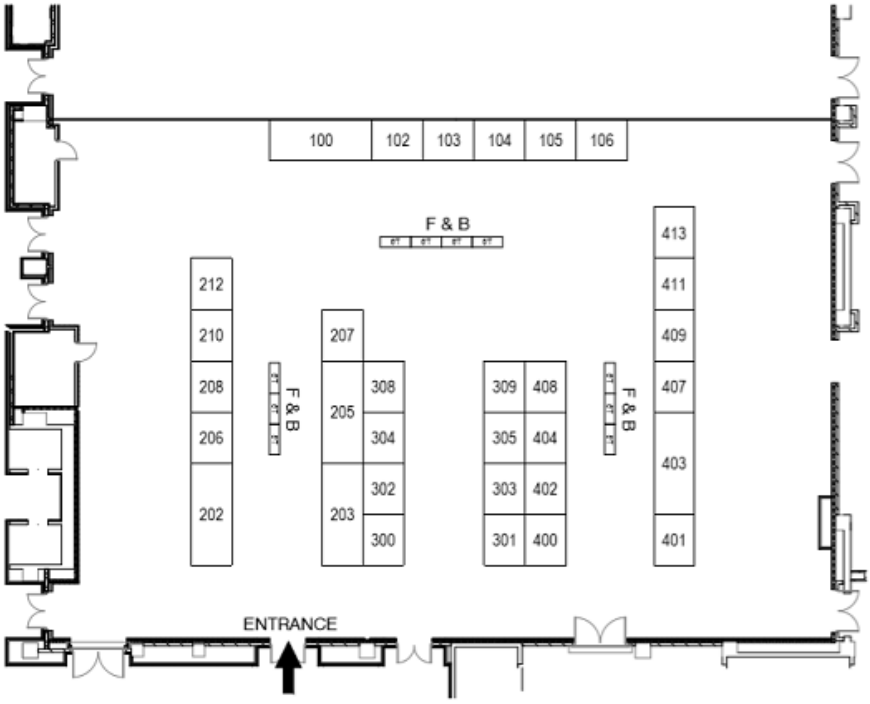
- Exhibit Hall Floor Plan
- Exhibitor Manual
- Exhibitor Listing

2018 - EXHIBIT HALL HOURS*

DAY	DATE	HOURS
Monday	June 25	16:30 to 19:00
Tuesday	June 26	10:00 to 18:00
Wednesday	June 27	10:00 to 12:30

* Times subject to change

Exhibit Hall Map



2018 Exhibitors

Company	Booth #
Abbvie	212
Blueprint Genetics	400
Cambridge University Press	411
Eisai	206
GE Healthcare	303
GeneDx	102
Grifols	404
Hoffmann-La Roche Limited	301
Horizon Health Network	402

Integra LifeSciences	100
Invitae	106
KEGO Corporation	408
LifeLabs	208
Medtronic of Canada Ltd.	202
Medtronic of Canada Ltd.	Tech Suite | 203
MNG Laboratories	300
Natus Neuro	210
NeuroSource Medical	207
Novartis	205
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The Canadian Neurological Sciences Federation (CNSF) is composed of 5 Member Societies:

- **Canadian Neurological Society (CNS)**
- **Canadian Association of Child Neurology (CACN)**
- **Canadian Neurosurgical Society (CNSS)**
- **Canadian Society of Clinical Neurophysiologists (CSCN)**
- **Canadian Society of Neuroradiology (CSNR)**

Members from each of the 5 Societies will have representation on our Congress planning committee(s) the Professional Development Committee (PDC) and the Scientific Program Committee (SPC).

Many thanks for the hard work and dedication of this year's Planning Committee Members

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