
CANADIAN
NEUROLOGICAL
SCIENCES
FEDERATION
FÉDÉRATION
DES SCIENCES
NEUROLOGIQUES
DU CANADA
52ND CONGRESS
June 20 - 23, 2017 | Victoria, BC

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.

June 20-23, 2017 | Victoria, BC

Congress courses and events will be held at the **Victoria Conference Centre** (720 Douglas Street - Victoria, BC) and the adjoining **Fairmont Empress Hotel** (721 Government Street - Victoria, BC).

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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Registration

Onsite Registration & Check-In Desk for Delegates and Exhibitors

Level 1 - Victoria Conference Centre

Hours of Operation	
Monday, June 19	**7:00 pm – 9:00 pm**
Tuesday, June 20	**7:00 am – 6:00 pm**
Wednesday, June 21	**7:00 am – 6:00 pm**
Thursday, June 22	**7:00 am – 6:00 pm**
Friday, June 23	**7:00 am – 11:30 am**

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.

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 Tuesday-Friday
- All official lunches and breaks
- Exhibitor's Reception
- Course Notes

One-day Registration Includes:

- Admission to all sessions the day of your registration
- Exhibitor's Reception (if you are registered to attend the Congress on Wednesday)
- 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
- **White** - Non-Member
- **Clear** - CNSF & Intertask Staff

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
Ensure your Canadian Neurological Society (CNS), Canadian Neurosurgical Society (CNSS), Canadian Society of Clinical Neurophysiologists (CSCN) or Canadian Association of Child Neurology (CACN) membership dues are paid in full prior to registering for the CNSF Congress.
Membership status is verified and in the event your membership is not current, non-member registration

rates will apply.

Membership Number
You will be required to input your membership number as part of the registration process.

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

Send your documents by email to cnsf@intertaskconferences.com

Registration Cancellations

Until midnight (ET) May 6, 2017, cancellations are refundable less a $50 administration fee (plus applicable taxes). Send your request to cnsf@intertaskconferences.com.

After May 6, 2017, registration fees are non-refundable, however, you may make a substitution.

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 15, 2017. Requests received after this date will not be considered. Requests will be reviewed and evaluated on a case by case basis.

Substitutions
Send your request to cnsf@intertaskconferences.com, be sure to 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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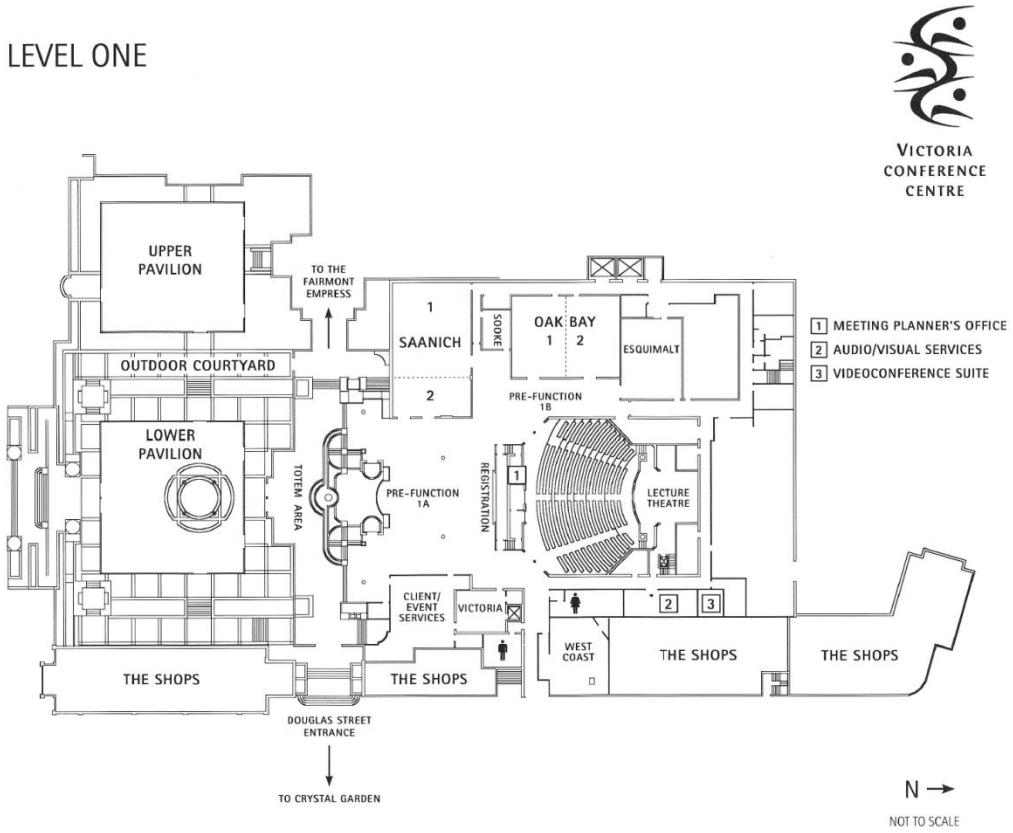
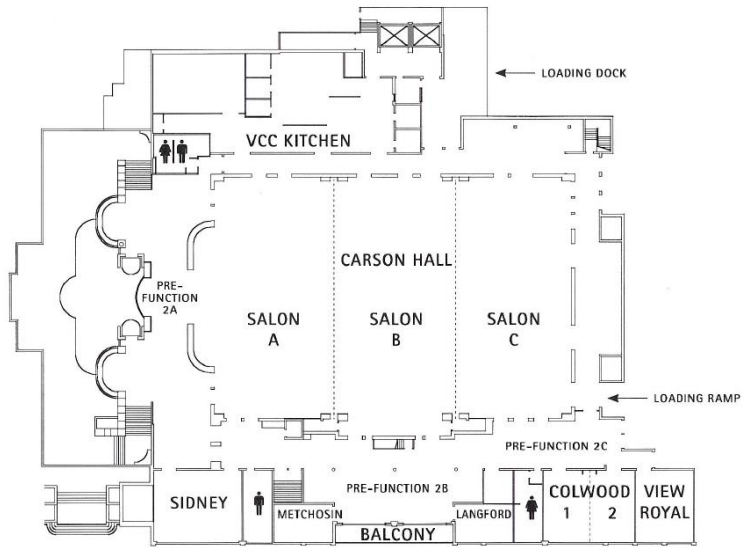
Congress Maps

Victoria Conference Centre

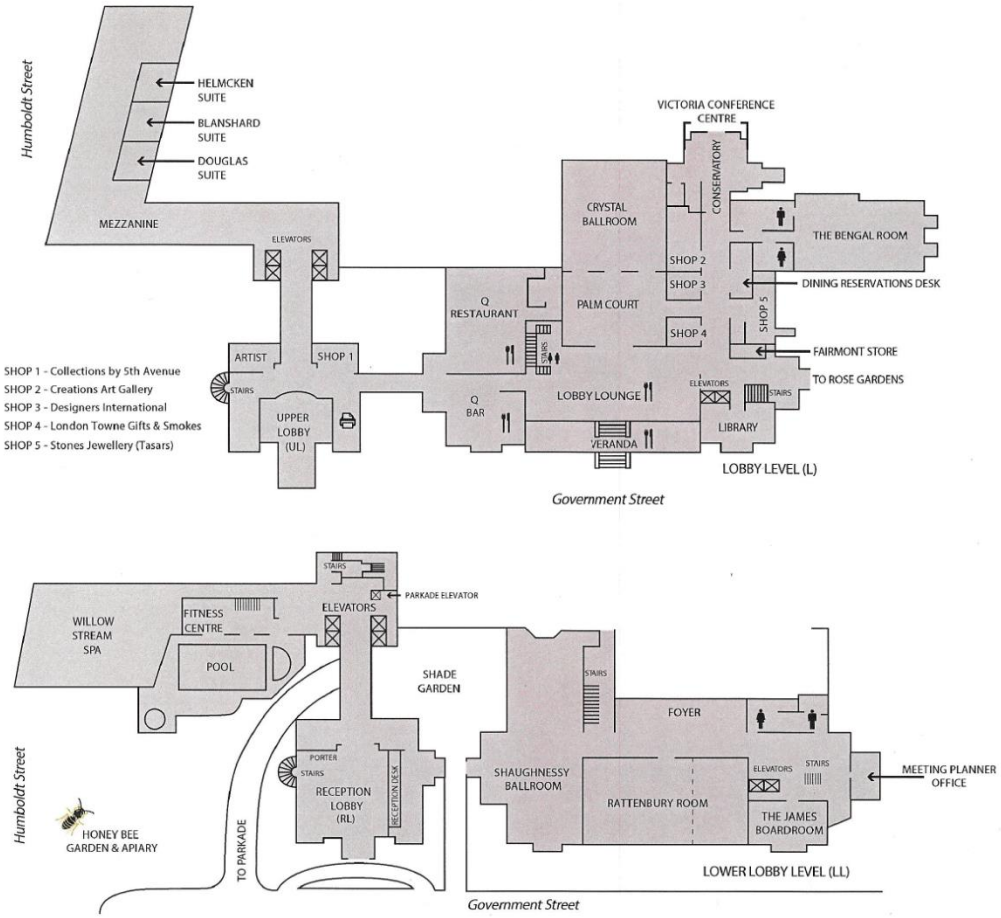
LEVEL ONE



LEVEL TWO



Empress Hotel Map



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Victoria, BC

Tourism

- Tourism Victoria
- Plan your trip
- Attractions Victoria

Air Travel

- Air Canada
- WestJet
- Habour Air

Exhibits waiting to be discovered at the Royal British Columbia Museum

Terry Fox – Running to the Heart of Canada

Family Bonds & Belonging – It's NOT All Relative

Victoria Bug Zoo - 631 Courtney Street, Victoria

Fun hands on experience for the Kids and for the Curious……

SPRINGTIDE
WHALE WATCHING & ECO TOURS

Special Offer from SpringTide Whale Watching!

While in Victoria, CNSF delegates and their friends and family are invited to take advantage of a special promotional offer from SpringTide Whale Watching. DELEGATES INVITATION

Located on Victoria's beautiful Inner Harbour, just minutes' walk from the Conference Centre. Reserve with SpringTide and mention promo code "CNSF2017" to automatically receive a $30 discount on your Whale Watching adventure.

See the DELEGATES INVITATION and visit their website for more information on these incredible tours.
www.VictoriaWhaleWatching.com

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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

Past Congress Dates and Locations

- 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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Speaker Information

Speaker Ready Room: Victoria Conference Centre – West Coast Room, level 1

Hours of Operation	
Monday, June 19	4:00 pm – 8:00 pm
Tuesday, June 20	7:00 am – 7:00 pm
Wednesday, June 21	7:00 am – 5:00 pm
Thursday, June 22	7:00 am – 5:00 pm
Friday, June 23	7:30 am – 2:00 pm

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

Registering for the Congress

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 projector (PC), LCD projector and screen, Laser pointer, Microphone.

- If additional AV is required Chairs are to submit a request for approval before May 29, 2017.
- 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.

Questions on speaker documents please contact:

Tricia Redmond: speakers@intertaskconferences.com 613-238-4075, ext. 277.

Questions on your course's scientific content or focus, please contact either:

Scientific Program Chair, Tejas Sankar at: tsankar@ualberta.ca or
Vice-chair, Alex Henri-Bhargava at: alexhb@uvic.ca

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CNSF 2017 Congress Program at a Glance as of May 15, 2017

8:30 AM to 11:00 AM
Courses
- Hot Topics in Neurology: The Current Future of Neurology
- Hot Topics in Child Neurology
- Hot Topics in Neurosurgery: Recent Advances in Neurosurgery
- Hot Topics in Clinical Neurophysiology: Advances in Neuromuscular Autoimmune Disease
- Neurology Resident Course: Resident Neuroimaging Review, pediatric

11:15 AM to 12:15 PM
- Poster Moderated Session

1:45 PM to 4:15 PM
Resident Courses
- Neurosurgery: Pediatric Neurosurgery
- Neurology: Resident Neuroimaging Review, adult

Multi-disciplinary Courses
- Trends in the Neurosciences
- Competency by Design

5:45 PM to 7:45 PM
Clinical Case Studies (CCS)
- Epilepsy Video Session
- Neuromuscular
- Movement Disorders
- Headache
- Neurosurgery-Fireside Chat

8:00 AM to 11:30 AM
Grand Plenary
- **CNS - Richardson Lecture:** Sandra Black, 150 Years of Progress in Understanding Alzheimer's Disease: Where we have been, where we are going and what about the future?
- **CSCN - Gloor Lecture:** Nens van Alfen, What can neuromuscular ultrasound do for you?
- **CACN - Tibbles Lecture:** Darcy Fehlings, Translational Neuroscience for Hemiplegic Cerebral Palsy: From Cell to Person
- **CNSS - Penfield Lecture:** John Kestle, Multicentre research benefits and challenges: a pediatric hydrocephalus example
- **Society Prize Winners present in Grand Plenary**

11:45 AM to 12:45 PM
SPC Chair's Select Abstracts
CACN, CNSS, CNS/ CSCN

12:45 PM to 2:15 PM
Co-developed
- Changing the course of MS: high efficacy therapeutic options
- Recent Advances in CSF analysis in Cognitive Impairment

2:30 PM to 5:00 PM
Courses
- Update in Headache Medicine: Headache and Concussion, Prophylactic Choices in Migraine,
- Stroke-Medical and Surgical Aspects
- Movement Disorders
- Brain Tumour Board-Neuro-oncology for Neurologists and Neurosurgeons
- Neuro-ophthalmology

5:00 PM to 7:00 PM
Exhibitors' Reception

7:00 PM to 8:30 PM
Residents' Social

8:00 AM to 3:45 PM
Morning Courses are: 8am to 10:30am
Afternoon Courses are: 1:15pm to 3:45pm

Child Neurology (CACN) Day
- AM – Pediatric Movement Disorders
- PM – Pediatric Movement Disorders

Neurophysiology (CSCN) Day
- AM – Pitfalls in the Interpretation of EEG
- PM – EMG in Everyday Practice. *Until 4:15*

Neurology (CNS) Day
- AM – Behavioral Neurology: the Basics and Beyond
- PM – Neuropsychiatric Manifestations of Neurological Disease

Neurosurgery (CNSS) Day
- AM – Study design in neurosurgery
- PM – Neuroradiology/Neurointervention for Neurosurgeons
- PM – Difficult Cases in Spine

10:45 AM to 11:45 AM
- Poster Moderated Session

6:30 PM
CNSF Social Event

8:30 AM to 10:00 AM
Grand Rounds

10:00 AM to 11:30 AM
- Brunch in Exhibit Hall

11:30 AM to 2:00 PM
Multi-Disciplinary Courses
- Exercise in Neurological Illness
- Concussion/Chronic Traumatic Encephalopathy
- Chronic Pain Management for Neuroscience Clinicians

Tuesday | June 20, 2017

Morning coffee available at 8:00 am and again at 11:15 am

Afternoon courses run from 1:45 - 4:15 and do not involve a coffee break

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

Courses

Hot Topics in Neurology »
The Current Future of Neurology: How do new technologies impact the practice of Neurology today?: VCC Saanich Rm

Chair: Alexandre Henri-Bhargava

Course Description:

"Personalized medicine", "precision medicine", "stratified medicine" – these buzzwords signal how large data, "omics," and technology will change the practice of neurology in the coming years. In this course, experts in the field will describe emerging tools that are changing how we will practice neurology.

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

- Define precision medicine;
- Compare the strengths and weaknesses of current neurologic assessment techniques;
- Describe a potential applications of RNA based-biomarkers;
- Recognize what questions may be answered by new approaches to biomarkers in acute cerebrovascular syndrome;
- Describe typical pervasive computing solutions for neurological research and practice.

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

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

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

CanMED Roles: Medical Expert, Scholar

Start Time	Presentation Title	Name of Presenter
08:30	Welcome / Introduction	Alex Henri-Bhargava

08:35	RNA as a biomarker in stroke	Glen Jickling
09:15	Proteomic biomarkers in stroke	Andrew Penn
09:55	Pervasive Computing for Neurological Disorders: Uncovering Real-World Function	Jeffrey Kaye
10:35	Panel Q&A	Moderator – Alex Henri-Bhargava Panel – Andrew Penn, Jeff Kaye, Glen Jickling

Hot Topics in Child Neurology »
VCC – Oak Bay Rm

Chair: Philippe Major

The intent of this course is to provide health care practitioners with an update on the latest information concerning various aspects of pediatric neurology. Specifically this course will focus on current literature in child neurology as well as recent advances in neuro-oncology, epilepsy, and new treatment strategies in pediatric neuromuscular disorders.

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

- Discuss recent advances in the field of neuro-oncology
- Discuss the recent strategies in pediatric neuromuscular diseases
- Discuss new treatments in pediatric epilepsy
- Discuss recent advances in post-traumatic epilepsy

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

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

Learning Format: Case studies, Discussion group, Lecture/plenary method, Question and answer sessions, Seminar

CanMED Roles: Medical Expert, Scholar, Health Advocate

Time	Description	Name of Presenter

08:30	Welcome and Introduction	Philippe Major
08:35	Recent advances in neuro-oncology: a neurological perspective	Sébastien Perreault
09:00	Discussion	
09:10	New treatment strategies in pediatric neuromuscular disorders	Cam-Tu Nguyen
9:35	Discussion	
9:45	Novel Medical Treatments for Epilepsy: Beyond Anti-Epileptic Drugs	Anita Datta
10:15	Discussion	
10:25	Update on post-traumatic epilepsy	Adam Numis
10:50	Evaluation & Wrap-up	Philippe Major

Hot Topics in Neurosurgery: Recent Advances in Neurosurgery »
VCC – Sidney Rm

Chair: Stephen Lownie

Course Description:

Our exciting lineup includes Dr. Peter Hutchinson (Addenbrooke's Hospital, Cambridge, England) who led a multinational randomized trial recently published in the NEJM concerning the role of decompressive craniectomy for traumatic intracranial hypertension. Dr. Christopher Wallace, (Queen's University, Kingston) serves as Member of the CMPA Council and will provide a comprehensive review of the medicolegal aspects of neurosurgery. The CMPA will soon begin specialty specific educational programs for high risk specialties like neurosurgery. Dr. Andrew Parrent (Western University, London) speaks on the complex subject of Pain and the Neurosurgeon, while Dr. David Fortin (Universite de Sherbrooke) speaks on the emerging use of intra-arterial chemotherapy for brain tumours.

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

- Understand the role of acute neurosurgical decompression in cranial trauma
- Be aware of the important ways by which neurosurgeons may avoid a lawsuit
- Be familiar with the methods of classifying pain syndromes, and the indications and results of surgical management
- Appreciate the promising new role of intra-arterial chemotherapy for brain tumours

Audience: Neurosurgeon, Neuroradiologist, Neurologist (Adult), 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

CanMED Roles: Medical Expert, Scholar, Collaborator

Start Time	Presentation Title	Name of Presenter
08:30	Decompressive craniectomy in traumatic intracranial hypertension	Peter Hutchinson
09:05	Medicolegal aspects of neurosurgery	Chris Wallace
09:40	Pain and the Neurosurgeon: What do we have to offer?	Andrew Parrent
10:15	Intra-arterial chemotherapy in brain tumours: where do we go from here?	David Fortin

Hot Topics in Clinical Neurophysiology: Advances in Neuromuscular Autoimmune Disease »
VCC - Esquimalt Rm

Co-chairs: Fraser Moore, Michelle Mezei

Course Description

This "hot topics" course will provide an update on four autoimmune diseases of the peripheral nervous system.

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

- Know when to suspect the diagnosis of brachial neuritis and how to distinguish it from more common neuromuscular disease such as radiculopathy
- Be able to identify different treatment strategies for CIDP
- Be aware of the clinical syndrome of POEMS and know when to suspect it
- Understand the role of thymectomy in the treatment of myasthenia gravis

Audience: Neurologist – Adult, Child Neurologist, Neuro Physiologist, Resident, Fellow

Learning Level: Intermediate (Practicing Physician)

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

CanMED Roles: Medical Expert, Scholar

Start Time	Presentation Title	Name of Presenter
08:30	Thymectomy and rituximab for myasthenia gravis	Fraser Moore
08:55	Audience Question & Answer	
09:05	POEMS	Kristine Chapman
09:30	Audience Question & Answer	
09:40	Brachial neuritis	Nens van Alfen
10:05	Audience Question & Answer	
10:15	CIDP	Kristin Jack
10:40	Audience Question & Answer	

Neurology Resident Course: Resident Neuroimaging Review, Pediatric »
VCC – Carson Hall – Salon C

Chairs: Robert Sevick, Karel terBrugge

Co-Chairs: Theo Mobach, Leyila Kaseka

Course Description:

The course will provide residents with a review of neuroimaging findings in a variety of diseases of the CNS. Both pediatric and adult imaging will be covered. The focus will be on key findings in specific disease entities as well as differential diagnosis of common patterns of findings.

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

- Understand the role of neuroimaging studies in the diagnosis and follow-up of patients with neurological disorders
- Develop an improved approach to appropriate ordering of neuroimaging studies
- Recognize key imaging findings and patterns in neurological disorders
- Improve differential diagnostic considerations in patients who have had imaging performed

Audience: Resident, Fellow, Nurses with interest in topic

Learning Level: Basic (Resident, New Information)

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

CanMED Roles: Medical Expert, Scholar

Start Time	Presentation Title	Name of Presenter
08:30	Congenital brain malformations	James Scott
	Congenital vascular malformations	Karel terBrugge
	Pediatric Metabolic Disorders	James Scott
	Brain Tumours (pediatric)	Rob Sevick
	CNS infections (pediatric)	Jason Shewchuk
10:40	Discussion, Q & A.	All

11:15 AM to **12:15 PM**

Poster Moderated Session: VCC - Multiple locations

Resident Courses

Neurosurgery: Pediatric Neurosurgery »
VCC – Esquimalt Rm

1:45 PM to **4:15 PM**

Co-Chairs: Mark Bigder, Colin Kazina, Patrick McDonald

Description:

This course will review key concepts in the management of pediatric neurosurgical patients. The program is presented by renowned leaders in the field of pediatric neurosurgery and covers a multitude of topics including oncology, epilepsy surgery, spasticity, dysraphism, hydrocephalus and craniosynostosis. The audience will have the opportunity to engage in interactive discussion highlighting clinical pearls in the management of challenging cases.

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

- Understand key concepts related to pediatric neuro-oncology
- Discuss the management of complex hydrocephalus, craniosynostosis and dysraphism

cases in the pediatric population
- Understand indications and treatment options for pediatric patients with spasticity and epilepsy

Audience: Neurosurgery Resident, Neurology Resident, Fellow, Child Neurologist, Neurosurgeon, Nurses with interest in topic

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

Learning Format: Case studies, Lecture/plenary method, Question and answer sessions, Seminar, Small group discussion

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

Time	Presentation Title	Name of Presenter
13:45	Spasticity	Ash Singhal
14:10	Epilepsy Surgery	Walter Hader
14:35	Oncology	Peter Dirks
15:00	Hydrocephalus	Abhaya Kulkarni
15:25	Dysraphism	Jay Riva-Cambrin
15:50	Craniosynostosis	John Kestle

Neurology: Resident Neuroimaging Review, Adult »
VCC – Carson Hall – Salon C

Chairs: Robert Sevick, Karel terBrugge

Co-Chairs: Theo Mobach, Leyila Kaseka

Course Description:

The course will provide residents with a review of neuroimaging findings in a variety of diseases of the CNS. Both pediatric and adult imaging will be covered. The focus will be on key findings in specific disease entities as well as differential diagnosis of common patterns of findings.

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

- Understand the role of neuroimaging studies in the diagnosis and follow-up of patients with neurological disorders
- Develop an improved approach to appropriate ordering of neuroimaging studies
- Recognize key imaging findings and patterns in neurological disorders
- Improve differential diagnostic considerations in patients who have had imaging performed

Audience: Resident, Fellow, Nurses with interest in topic

Learning Level: Basic (Resident, New Information)

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

CanMED Roles: Medical Expert, Scholar

Start Time	Presentation Title	Name of Presenter
13:45	Vascular disorders (adult)	Karel terBrugge
	White matter disorders (adult)	Jason Shewchuk
	CNS infections (adult)	Jason Shewchuk
	Brain tumours (adult)	Rob Sevick
	Adult metabolic disorders	Rob Sevick
15:55	Discussion, Q & A.	All

Multi-disciplinary Courses

Trends in the Neurosciences »
VCC – Lecture Theatre

1:45 PM to **4:15 PM**

Co-chairs: Tejas Sankar, Douglas Zochodne

Course Description:

This course is intended to provide an overview of key approaches in the basic neurosciences which have recently been—or have the potential to be—translated into promising therapies against neurological illness. The course will consist of four didactic lectures covering: 1) protein-targeting approaches to neurodegenerative disease; 2) challenges associated with delivering biological therapies to targets in the nervous system; 3) approaches to peripheral nerve and nervous system regeneration; and 4) optogenetics/chemogenetics. An interactive question-and-answer session at the end of the course will encourage audience participation,

and will highlight multidisciplinary challenges that must be met in order to advance translational therapies in neurological illness.

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

- Describe novel approaches in basic neuroscience which are driving promising translational therapies for neurological illness
- Understand the ongoing challenges faced by these novel translational therapies
- Appreciate the importance of basic neuroscience research in advancing clinical neurology and neurosurgery

Audience: Neurologist – Adult, Child Neurologist, Neurosurgeon, Neuro Physiologist, Other—basic neuroscientists

Learning Level: Intermediate, Advanced

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

CanMED Roles: Medical Expert, Scholar, Collaborator, Professional

Start Time	Presentation Title	Name of Presenter
13:45	Welcome and Introduction	Tejas Sankar
13:50	Targeting pathologic proteins as a therapeutic strategy for neurodegenerative diseases	Lorraine Kalia
14:20	Current challenges in the delivery of biological therapies for neurodegenerative disease	Suneil Kalia
14:50	Peripheral nerves, regeneration, and neurobiology	Douglas Zochodne
15:20	Designer genes: Developing optogenetic and chemogenetic therapies for neurological disorders	Ian Winship
15:50	Audience Question and Answer	Tejas Sankar, Douglas Zochodne, Lorraine Kalia, Suneil Kalia, Ian Winship

Competence by Design »
VCC - Oak Bay Rm

Co-chairs: Joseph Megyesi and Alex Henri-Bhargava

Course Description:

Medical education is undergoing constant change. New techniques to improve the acquisition of knowledge and to ensure maintenance of competence are being developed. Competence-by-design is an outcomes based approach to the design, implementation, assessment and evaluation of a medical education program using competencies as the organizing framework. This course will explore how competence-by-design can be incorporated into residency training and continuing professional development in neurology and neurosurgery. There will be discussions and demonstrations around these topics.

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

- Articulate and explore the purpose, intent and value of competence-by-design in medical education.
- Explore problems of every day practice that might be addressed if CBD is approached creatively
- Describe how competence-by-design is being incorporated in neurology and neurosurgery residency training.
- Describe how competence-by-design is being incorporated into continuing professional development.

Audience: Neurologist – Adult, Child Neurologist, Neurosurgeon, Resident, Fellow

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

Learning Format: Lecture/plenary method, Question and answer sessions, Forum/panels, Audience response systems (tentative)

CanMED Roles: Scholar, Communicator, Collaborator, Professional

Start Time	Presentation Title	Name of Presenter
13:45	Introduction	Joseph Megyesi / Alex Henri-Bhargava
13:50	"What does the College want from us now?": Peeking behind the curtain of CBD	Glenn Regehr
14:40	CBD in neurology training	Brian Murray
15:05	CBD in neurosurgery training	Cian O'Kelly
15:30	CBD in continuing medical education – update from	Joseph Megyesi

	the RCPSC summit	
15:45	Panel discussion	Moderator: Alex Henri-Bhargava Discussants: Joseph Megyesi, Glenn Regehr, Brian Murray, Cian O'Kelly

Clinical Case Studies

Epilepsy Video Session »
Empress Hotel – Shaughnessy Ballroom

5:45 PM to **7:45 PM**

Co-chairs: Seyed M. Mirsattari, José F. Téllez Zenteno

Course Description:

This is an interactive Video-EEG session where 2 pediatric and 2 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

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

Start Time	Presentation Title	Name of Presenter

17:45	Welcome and Introduction	Seyed Mirsattari
17:45	Pediatric Case	Anita Datta
18:15	Adult Case	José F. Téllez Zenteno
18:45	Pediatric Case	Erick Sell
19:15	Adult Case	Seyed Mirsattari

Neuromuscular »
VCC – Esquimalt Rm

Chairs: Dr. Kristine Chapman, Dr. Nigel Ashworth

Course Description:

The Neuromuscular Special Interest Group is a case based session. Four brief cases will be presented on a variety of adult and paediatric cases. After presentation of the case, the audience will engage in a lively discussion regarding localization, work up and differential diagnosis related to the case. Everyone is welcome to participate, but no one will be "put on the spot" to discuss a case.

In addition, Dr. Nens van Alfen will be presenting a case based talk related to use of ultrasound in Neuromuscular disease, with ample room for discussion.

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

- Develop an approach to the evaluation of rare and common neuromuscular conditions
- Recognize the potential of ultrasound in the diagnosis of neuromuscular conditions
- Discuss challenging cases with colleagues in a supportive environment.

Audience: Adult and paediatric neurologists, EMG technologists, Residents, Fellows

Learning level: Basic, Intermediate and Advanced

Format: Case studies, discussion

CanMED Roles: Medical Expert, Scholar, Communicator, Collaborator

Start Time	Presentation Title	Name of Presenter

17:45	Welcome and Introductions	Kristine Chapman
18:00	Case 1	Jean Mah
18:15	Case 2	Elliott Bogusz
18:30	Ultrasound based case presentation	Nens van Alfen
19:00	Case 3	Werner Ilse
19:15	Case 4	Sameer Chhibber
19:30	Concluding Comments	Nigel Ashworth

Movement Disorders »
VCC – Colwood Rm

Chair: Jonathan Squires

Course Description:

This course will use videos to review a variety of common and uncommon movement disorders. Audience participation will be encouraged to discuss phenomenology, diagnosis, and treatment options.

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

- Recognize different movement disorder phenomenologies, including parkinsonism, chorea, tics, tremor and myoclonus
- Develop an approach to the evaluation of various movement disorders
- Discuss treatment options for hypo- and hyperkinetic movement disorders

Audience: Neurologist – Adult, Child Neurologist, Neurosurgeon, 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, Question and answer sessions, Video cases

CanMED Roles: Medical Expert, Scholar, Professional

Start Time	Presentation Title	Name of Presenter

17:45	Welcome and Introductions	Jonathan Squires
17:50	Video Case Presentation	Jonathan Squires Daryl Wile
19:30	Wrap-up and Questions	Jonathan Squires Daryl Wile

Headache »
VCC – Saanich Rm

Chair: Michael Knash

Course Description:

This course is a case based discussion of headache syndromes important for the neurologist to be able to recognize and treat. Audience participation is encouraged to discuss differential diagnosis, investigations, and therapeutic options.

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

- Recognize various important and challenging headache syndromes
- Develop an approach to the evaluation of various headache syndromes
- Discuss treatment options for various headache syndromes

Audience: Neurologist – Adult, Child Neurologist, Neurosurgeon, 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, Question and answer sessions

CanMED Roles: Medical Expert, Scholar, Professional

Start Time	Presentation Title	Name of Presenter
17:45	Welcome and Introductions	Michael Knash
17:50	Headache Case Presentation #1	Elizabeth Leroux
18:45	Headache Case Presentation	Jason Barton

	#2		
19:40	Questions and Wrap Up	Michael Knash Elizabeth Leroux Jason Barton	

Neurosurgery- Fireside Chat »
Empress Hotel – Rattenbury A/B

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

TOP

Wednesday | June 21, 2017

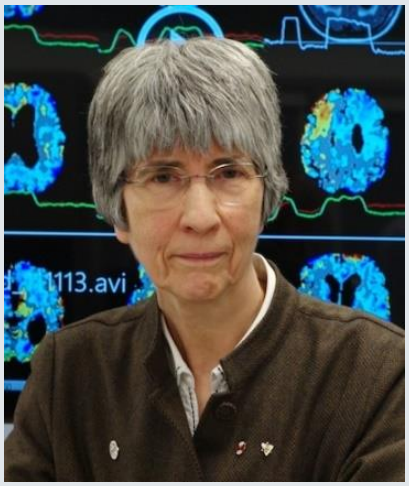
Morning coffee available at 7:30 am and again at 11:30

Afternoon courses run from 2:30 - 5:00 pm and do not involve a coffee break

Grand Plenary: VCC - Lecture Theatre

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

CNS - Richardson Lecture: Sandra Black »
150 Years of Progress in Understanding Alzheimer's Disease: Where we have been, where we are going and what about the future?



Sandra Black, MD, FRCP(C) is an internationally renowned cognitive and stroke neurologist who holds the inaugural Brill Chair in Neurology, Department of Medicine, University of Toronto and Sunnybrook Health Sciences Centre. A leading clinical trialist in dementia, she is the Executive Director of the Toronto Dementia Research Alliance, a collaborative network of five institutional UofT memory programs. She is Sunnybrook Site Director of the Heart & Stroke Foundation Canadian Partnership for Stroke Recovery and Hurvitz Brain Sciences Research Program Director at Sunnybrook Research Institute. She has published over 460 papers (Scopus H index 72; Google 93; >28,000 citations) in a 30-year research career that has bridged dementia and stroke, using neuroimaging to study brain-behavior relationships, with a recent focus on relationships of Alzheimer's and silent stroke disease. She has earned numerous mentorship and research awards, including election to the Royal Society of Canada (2012), and the UofT Faculty of Medicine Dean's Alumni Lifetime Achievement Award (2015). She was named to the Order of Ontario in 2011, cited as an assiduous physician leader and influential architect of the Ontario Stroke System, and in 2015 appointed Officer to the Order of Canada for her contributions to Alzheimer's disease, stroke and vascular dementia.

CSCN - Gloor Lecture: Nens van Alfen »
What can Neuromuscular Ultrasound do for you?

Nens van Alfen MD PhD is a neurologist and clinical neurophysiologist from the Radboud university medical center (RUMC) in Nijmegen, The Netherlands. In 1997 she finished her medical training and she has been a board certified neurologist since 2004. In 2006 she obtained her cum laude PhD. Dr. van Alfen is the medical director of the Clinical Neurophysiology laboratory and coordinator of the clinical neurophysiology residency training program. Her areas of expertise are peripheral nerve pathology, brachial plexus neuropathies, neuromuscular ultrasound, electrodiagnosis of neuromuscular disorders and intraoperative neuromonitoring. At the RUMC she has set up the multidisciplinary Plexus Clinic, an international clinical expertise center for diagnosis and rehabilitation of patients with neuralgic amyotrophy (a.k.a. idiopathic brachial plexus neuritis), which treats about 500 patients yearly since 2009. In addition she has set up the PNS Clinic that offers multidisicplinary consultation and treatment for patients with PNS trauma. Her current focus is on developing a national teaching and quality program for neuromuscular ultrasound in the Netherlands. Nens van Alfen is married and has 2 lively young children.

CACN - Tibbles Lecture: Darcy Fehlings »
Translational Neuroscience for Hemiplegic Cerebral Palsy: From Cell to Person

Darcy L. Fehlings MD MSc FRCP(C)

Dr. Darcy Fehlings is Head of the Division of Developmental Paediatrics and is a Professor in the Department of Paediatrics, at the University of Toronto. She is the inaugural holder of the Bloorview Children's Hospital Foundation Chair in Developmental Paediatrics. Dr. Fehlings is a Senior Clinician Scientist in the Bloorview Research Institute. Her research focuses on the innovation and evaluation of interventions for children with cerebral palsy. She is the lead investigator of an Ontario Brain Institute integrated neuroscience network focused on children with cerebral palsy (CP-NET) and leads the CP Discovery Project in the Canadian NeuroDevNet Networks of Centres of Excellence. She is a past president of the American Academy for Cerebral Palsy and Developmental Medicine (AACPDM).

CNSS - Penfield Lecture: John Kestle »
Multicentre Research Benefits and Challenges: A Pediatric Hydrocephalus Example

John R. W. Kestle, M.D. , FRCS, FACS

Dr. Kestle is a pediatric neurosurgeon and clinical researcher in pediatric hydrocephalus. He was born in Toronto and grew up in London Ontario. After medical school (University of Western Ontario BSc Biology, 1980; MD, 1984) he trained in Neurosurgery in Toronto (1984-1992) and in Clinical Epidemiology at McMaster University (MSc, Epidemiology and Biostatistics, 1989).

He began his career at the University of British Columbia in 1992. In 1998, he joined the faculty at the University of Utah and Primary Children's Medical Center in Salt Lake City, where he became Professor of Neurosurgery, Chief of the Division of Pediatric Neurosurgery and Neurosurgery Residency Program Director. He has served as the Scientific Chair of the International Society for Pediatric Neurosurgery, Chair of the Editorial Board for the Journal of Neurosurgery:Pediatrics, Treasurer of the International Society for Pediatric Neurosurgery and Chair of the Written Exam Committee of the American Board of Pediatric Neurosurgery. His clinical practice has focused on craniosynostosis, brain tumors and hydrocephalus. His research is in pediatric hydrocephalus and he founded and Chairs the Hydrocephalus Clinical Research Network (hcrn.org). He is currently Professor of Neurosurgery and Vice Chair, Clinical Research in the Department of Neurosurgery at the University of Utah.

CNSF Society Prize Winners

CNSF Society Prize Winners present their work

11:45 AM to **12:45 PM**

SPC Chair's Select Abstracts: CACN, CNSS, CNS/CSCN

VCC – CACN in Oak Bay; CNSS in Esquimalt; CNS/CSCN in Saanich

12:45 PM to **2:15**

Co-developed

Changing the course of MS: high efficacy therapeutic options »
Empress Hotel – Crystal Ballroom

PM	
	Target audience: Neurologists who manage patients with MS, both at the community level and at MS clinics **Format:** Live symposium at CNSF Congress 2017 **Co-chairs:** Sarah Morrow & Fabrizio Giuliani **Accreditation:** Section 1 accredited through CNSF PROGRAM DESCRIPTON: This program will explore the newest developments and approaches to its optimal management and the impact of early disease activity on long-term outcomes. It will critically evaluate the risk-benefit profile of current and emerging high efficacy therapies, and their impact on disease activity and progression. It will discuss the short therapeutic window to influence disease progression and worsening, and the importance of early, effective treatment in this regard. Through evidence-based and practical discussions with the panel, the program hopes to elucidate the future of MS therapy and the role newer agents may play in helping patients achieve optimal outcomes. **At the end of this session, participants will be able to:** • Recognize the impact of early disease activity on long-term outcomes in MS, and the need for early, effective treatment • Summarize the risk-benefit profile of current and emerging high efficacy therapies, and their impact on disease activity and progression • Discuss best practices for implementing high efficacy therapies for optimal therapeutic outcomes in MS This program was developed by the CNSF, Antibody Communications and Hoffmann-La Roche and was planned to achieve scientific integrity, objectivity and balance.
	Recent Advances in CSF analysis in Cognitive Impairment » Empress Hotel – Shaughnessy Ballroom
	Faculty members: Sandra Black (chair), Mari Demarco, Pedro Rosa-Neto **By the end of this course participants will be better able to:** • Discuss CSF biomarkers in development. • Analyse the use of CSF biomarkers to identify patients with early-stage AD.

- Discuss the limitations of current methods and potential role for Mass Spec in evaluating CSF levels of amyloid, tau and potentially other relevant proteins in people with cognitive impairment/dementia.

Outline: This co-developed session aims to discuss CSF biomarkers in development, their role in the diagnostic framework of AD and other dementias, and some methodological limitations.

Gap # 1:
- Recent research is focused on biomarkers (CSF, Imaging) as ways to assess risk and achieve early identification of AD. Practicing physicians have limited knowledge of recent advances in biomarker research.

Gap #2:
- Clincians need to improve patterns of early diagnosis of AD and dementia, particularly as the number of those affected continues to rise.

Gap #3:
- While only symptomatic therapies are available, emerging disease-modifying agents (such as AB and tau-based therapies) are being vigorously pursued in clinical trials. Clinicians need to be prepared for impending treatment approaches.

Start Time	Presentation Title	Name of Presenter
12:45-13:00	Registration and Lunch	
13:00	Introduction	Sandra Black
13:10		Mari Demarco
13:30		Pedro Rosa-Neto
13:50	Live Q & A	

-

2:30 PM to **5:00 PM**

Courses

Update in Headache Medicine »
Headache and Concussion, Prophylactic Choices in Migraine, The Management of Medication Overuse Headache: VCC – Saanich Rm

Chair: Sian Spacey

Course Description:

This course will provide a state of the art overview of headache and concussion, prophylactic choices in migraine and management of medication overuse headache. This will include the latest update in the role of monoclonal antibodies in the management of migraine. This course will update neurologists the management in all three of these important areas, and also provide

residents with a sound knowledge base in these areas.

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

- Discuss the optimal medical management of concussion related headache
- Discuss the latest in management of migraine prophylaxis
- Identify and employ treatment strategies for the management of medication overuse headache

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

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

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

CanMED Roles: Medical Expert, Scholar

Start Time	Presentation Title	Name of Presenter
14:30	Introduction	Sian Spacey
14:40	Headache and Concussion	William Panenka
15:10	Discussion	
15:25	Prophylactic Choices in Migraine	Elizabeth Leroux
16:00	Discussion	
16:15	The Management of Medication overuse Headache	Mike Knash
16:45	Discussion	
17:00	Adjournment	

Stroke- Medical and Surgical Aspects »
VCC – Oak Bay Rm

Co-chairs: Mel Boulton and Jennifer Mandzia

Course Description:

The management of stroke patients involves a multidisciplinary team of medical practitioners in particular neurologists, neurosurgeons, neuroradiologists, and interventional specialists. This

course will provide an update on the management of both ischemic and hemorrhagic stroke, focusing on both medical and surgical aspects illustrated by challenging cases. New minimally invasive techniques to manage intracranial hemorrhage will be reviewed, and an update on the management of carotid disease in the hyperacute and acute phases provided. There will also be a clinically relevant basic science review on stroke pathophysiology and neuroprotectant agents. Controversies pertaining to the medical and surgical management of cerebral venous sinus thrombotic disease will also be reviewed.

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

- To describe the medical and surgical management of carotid disease in the hyperacute and acute phases.
- Identify the advantages and disadvantages of various minimally invasive approaches for treating intracranial hemorrhage.
- Develop an appreciation for the multidisciplinary care of stroke patients.
- Appreciate the controversies and challenges in the diagnosis and management of cerebral venous sinus thrombosis.
- Critically appraise the current literature relating to stroke research and neuroprotection.

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

Learning Level: Basic, Intermediate and advanced

Learning Format: Case studies, 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
14:30	Welcome and Introduction	Mel Boulton and Jennifer Mandzia
14:35	Minimally Invasive Surgical ICH Evacuation	David Fiorella
15:05	The management of carotid disease in the hyperacute and acute phases	Michael Hill
15:35	Stroke Research and Neuroprotection	Douglas James Cook
16:05	Controversies in the Medical and surgical management of Cerebral Venous Sinus Thrombosis	Thalia Field

16:35	Audience Question and Answer	All speakers

Movement Disorders »
VCC – Esquimalt Rm

Chair: Jonathan Squires

Course Description:

This course is designed to complement to the Movement Disorders Clinical Case Studies Course and provides a more in-depth exploration of selected topics in Movement Disorders. Speakers will address an approach to the management of motor fluctuations in Parkinson's disease, quality measures in Parkinson's disease, and an approach to the diagnosis and management of chronic tic disorders and chorea.

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

- Identify and manage motor fluctuations in patients with Parkinson's disease
- Develop an approach to the diagnosis and management of chorea and tic disorders
- Develop a familiarity with quality measures in Parkinson's disease

Audience: Neurologist – Adult, Child Neurologist, 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

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

Start Time	Presentation Title	Name of Presenter
14:30	Welcome and Introduction	Jonathan Squires
14:35	Quality Measures in Parkinson's Disease	Janis Miyasaki
15:05	Managing the Motor Complications of Parkinson's Disease	Jonathan Squires
15:35	Chorea	Lynn Raymond

16:05	Management Challenges in Chronic Tic Disorders	Davide Martino
16:35	Question and Answer period	Moderator: Jonathan Squires Janis Miyasaki Davide Martino Lynn Raymond

Brain Tumour Board- Neuro-oncology for Neurologists and Neurosurgeons »
VCC – Lecture Theatre

Chair: Joseph Megyesi

Course Description:

Neuro-oncology is an evolving subspecialty that is of interest to both neurologists and neurosurgeons. Brain tumour pathology is being reorganized based on emerging molecular markers. Brain tumour surgery, chemotherapy and radiation therapy are all undergoing advances due to new technologies and clinical trials. This course will update attendees on the current state of these fields. There will be discussion of clinical cases using a brain tumour board format.

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

- Gain an update of brain tumour pathology including molecular classification
- Gain an update of brain tumour surgery
- Gain an update of brain tumour chemotherapy
- Gain an update of brain tumour radiation therapy

Audience: Neurologist – Adult, Neurosurgeon, Resident, Fellow, Nurses with interest in topic, Medical oncologist, Radiation oncologist

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

Learning Format: Audience response systems (touch pads), Case studies, Forum/panels, Lecture/plenary method, Question and answer sessions

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

Start Time	Presentation Title	Name of Presenter
14:30	Introduction and overview	Joseph Megyesi
14:35	Update on brain tumour pathology	Stephen Yip
15:00	Update on brain tumour surgery	Gelareh Zadeh
15:25	Update on brain tumour chemotherapy	David Macdonald
15:50	Update on brain tumour radiation therapy	David Roberge
16:15	Brain tumour board discussion with cases	Moderators/Panelists – David Macdonald) and Joseph Megyesi. Panelists – Stephen Yip, Gelareh Zadeh, David Roberge

Neuro-ophthalmology »
VCC – Sidney Rm

Chair: Martin SuttonBrown

Course Description:

The course will provide a timely review of Idiopathic Intracranial Hypertension and inflammatory optic neuropathy. The course will also provide a critical review of Vision Therapy as some of your patients may be participating in this treatment. The course will finish with a core skills review of assessing and treating diseases of the pupil.

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

- Understand and apply best evidence for the treatment of IIH and Inflammatory optic neuropathy.
- Have a framework to discuss the utility of Vision Therapy for their patients.
- Apply best practices to assessing and treating diseases affecting the pupil

Audience: Neurologist – Adult, Child Neurologist, Neurosurgeon, Resident, Fellow

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

Advanced (SIG, Higher Level Discussion)

Learning Format: Case studies, 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
14:30	Introduction	
14:35	Idiopathic Intracranial Hypertension	Martin SuttonBrown
15:00	Inflammatory Optic Neuropathy	Claire Sheldon
15:30	An Evidence Based Review of Vision Therapy	Briar Sexton
16:00	Practically Pupils	Kristopher Kowal
16:30	Quiz, Questions and Answers	Martin SuttonBrown: Moderator Claire Sheldon: Panel Briar Sexton: Panel Kristopher Kowal: Panel

Questions time will also be included at the end of each session.

TOP

Thursday | June 22, 2017

Morning coffee available at 7:30 am and again at 10:45

Afternoon courses run from 1:15 - 3:45 pm and do not involve a coffee break

8:00 AM to **3:45 PM**

Child Neurology (CACN) Day

Pediatric Movement Disorders (8:00-10:30) »
VCC – Oak Bay Rm

Co-chairs: Michael Esser, Craig Campbell

Course Description:

Child Neurology Day will focus on movement disorders in children. The morning session will focus on the functional neuroanatomy and physiology of the basal ganglia as well as secondary movement disorders. The afternoon will focus on primary movement disorders.

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

- Understand the functioning of basal ganglia and related neuro-anatomic networks that control movement in the developing brain of a child
- Determine the best approach for managing secondary movement disorders such as Cerebral Palsy and Conversion Disorder
- Describe concepts of the genetic pathophysiology and optimal diagnostic paradigms for primary movement disorders in children

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: Case studies, Lecture/plenary method

CanMED Roles: Medical Expert, Scholar

Start Time	Presentation Title	Name of Presenter
08:00	Welcome and Introduction	Craig Campbell
30 min	The basal ganglia and functional anatomy of movement	Gabrielle Horvath
40 Min 5 min discussion	An Evidence-informed Care Pathway for Managing Dystonia in Cerebral Palsy from Diagnosis to Treatment	Darcy Fehlings
25 m 5 min discussion	Movement disorders as conversion disorders and mass hysteria	Javeed Sukhera (guest)
25 min 5 min discussion	Update on Tics and Gilles de la Tourette Syndrome	Asif Doja

15 discussion	Resident Case Presentation	Ilanes Hanes

Pediatric Movement Disorders (1:15-3:45) »
VCC – Oak Bay Rm

Co-chairs: Michael Esser, Craig Campbell

Course Description:

Child Neurology Day will focus on movement disorders in children. The morning session will focus on the functional neuroanatomy and physiology of the basal ganglia as well as secondary movement disorders. The afternoon will focus on primary movement disorders.

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

- Understand the functioning of basal ganglia and related neuro-anatomic networks that control movement in the developing brain of a child
- Determine the best approach for managing secondary movement disorders such as Cerebral Palsy and Conversion Disorder
- Describe concepts of the genetic pathophysiology and optimal diagnostic paradigms for primary movement disorders in children

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: Case studies, Lecture/plenary method

CanMED Roles: Medical Expert, Scholar

Start Time	Presentation Title	Name of Presenter
13:15		
40 min	Neurodegeneration with brain iron accumulation	Susan Hayflick (guest)
5 min discussion		

40 min 5 min discussion	Clinical Spectrum of genetic pediatric movement disorders	Inge Meijer
25 min 5 min discussion	Deep Brain Stimulation for Pediatric movement disorders	Chris Honey
15 min discussion	Resident case presentation	Ahmad Alanezi
10 min	Wrap up and evaluations	Michael Esser

Neurophysiology (CSCN) Day

Pitfalls in the Interpretation of EEG (8:00-10:30) »
VCC – Esuimalt Rm

8:00 AM to **3:45 PM**

Co-chairs: Jose F. Tellez and Esther Bui

Course Description:

This course will provide an overall update of the indications for video-EEG telemetry, inpatient and outpatient request for EEG. The program will begin by reviewing the updated of Minimal Standards for Electroencephalography in Canada. Then the course will review current indications of video-EEG telemetry using real cases. The course will also review pitfalls in the interpretation of EEGs in real outpatient cases. Finally, the course will finish with a session reviewing pitfalls in the interpretation of EEGs in real inpatient cases

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

- To learn the most updated Minimal Standards for Electroencephalography in Canada
- To learn the indications of video-EEG telemetry
- To learn the indications of EEG for outpatients
- To learn the indication of inpatients

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

Learning Level: Intermediate, Advanced

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

CanMED Roles: Medical Expert, Scholar, Communicator, Professional

Start Time	Presentation Title	Name of Presenter
08:00	Introduction	Jose F. Tellez-Zenteno
08:05	Minimal Standards for Electroencephalography in Canada	Jose F. Tellez-Zenteno
08:35	Indications of video-EEG telemetry-case based	Seyed Mirsattari
09:05	Common mistakes in the interpretation of outpatient EEGs	Mark Saddler
09:35	Pitfalls in the interpretation of inpatient EEGs	Gary Hunter
10:05	Question Wrap up	All

EMG in Everyday Practice (1:15-4:15) »
VCC – Carson Hall – Salon C

Course Description:

This course is aimed to provide the attendees a broad based approach to neurophysiological testing and hands-on demonstration of these techniques. The session will comprise four interactive workshops led by leading academic neurophysiologists. Nerve conduction and needle electromyography techniques will be demonstrated across the spectrum of neuromuscular disorders on volunteers. A practical approach will be emphasized for nerve/muscle selection for every day clinical scenarios. The format will allow adequate time for the attendees to interact with the faculty.

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

- Develop an approach to neurophysiological testing in patients with suspected muscle, peripheral nerve, and neuromuscular junction diseases.
- Learn basic, comprehensive neurophysiological methods including nerve conduction studies, repetitive nerve stimulation, Late responses (F- waves, H reflex), needle EMG using a hands-on patient interaction

Audience: Adult/Child Neurologists, Physiatrists, Fellows, Senior Residents with interest in electromyography

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

Learning Format: Small Workshops, hands-on demonstrations

CanMED Roles: Medical Expert, Scholar

1:15 pm – 4:15 pm: Workshop Sessions

Delegates will divide into 4 groups with a maximum up 15 people per group.

Each station: 2 minutes intro | 3 minutes conclusion | 30 min training

1. Dr. Kristine Chapman — Approach to common focal & diffuse neuropathies
2. Dr. Sam Chhibber — Less commonly studied nerves on NCS
3. Dr. Hans Katzberg — Approach to needle EMG for neuromuscular conditions
4. Dr. Zaeem A. Siddiqi — RNS & Late responses

	OSCE 1	**OSCE 2**	**OSCE 3**	**OSCE 4**
Time Slots	**Approach to common compressive neuropathies**	**RNS & Late Responses**	**Approach to Needle EMG**	**Less commonly studied nerves**
1:15-1:25 pm	*Workshop Begins. Delegates registered & assigned to 4 groups*			
1:25-2:05 pm	Group 1	Group 2	Group 3	Group 4
2:05-2:45 pm	Group 4	Group 1	Group 2	Group 3
2:45-2:55 pm	**BREAK**			
2:55-3:35	Group 3	Group 4	Group 1	Group 2

pm				
3:35-4:15 pm	Group 2	Group 3	Group 4	Group 1

Neurology (CNS) Day

Behavioral Neurology: The Basics and Beyond (8:00-10:30) »
VCC – Lecture Theatre

8:00 AM to **3:45 PM**

Chair: Alexandre Henri-Bhargava

Course Description:

This course will review current understanding of the neurophysiology of some traditional domains of cognition, namely: memory, language, praxis, and gnosis. Leaders in the field will review what we know about how each of these cognitive functions work in the brain. Each presentation will include clinical examples for correlation.

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

- Describe the current understanding of how memories are made, stored, and accessed
- Describe the current understanding of language processing
- Describe the current understanding of praxis
- Describe the current understanding of visuospatial processing

Audience: Neurologist – Adult and Child, 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

Start Time	Presentation Title	Name of Presenter
08:00	Welcome and Introduction	Alexandre Henri-Bhargava
08:05	Memory	Maiya Geddes

08:35	Language	Howard Chertkow
09:05	Gnosis	Jason Barton
09:35	Praxis	Sandra Black
10:05	Audience Q&A	Alex Henri-Bhargava, Moderator
		Panel: Maiya Geddes, Howard Chertkow, Jason Barton, Sandra Black

Neuropsychiatric Manifestations of Neurological Disease (1:15-3:45) »

VCC – Lecture Theatre

Chair: Alexandre Henri-Bhargava

Course Description:

This course will review psychiatric manifestations of neurological disease. The course will begin with a short introduction of Interdisciplinary Brain Medicine as a new concept and training opportunity in Canada. Subsequently, psychiatric manifestations of three different neurological conditions will be covered from a clinical perspective: altered social cognition and behaviour frontotemporal dementia, depression in multiple sclerosis, and anxiety and other behavioural derangements in Parkinson's disease.

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

- Describe Interdisciplinary Brain Medicine as a concept
- Describe derangements of social cognitive function using FTD as a model
- List the different psychiatric manifestations of Parkinson's disease
- Outline an approach to depression in neurological disease, using MS as a model

Audience: Neurologist – Adult, 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

Start Time	Presentation Title	Name of Presenter
13:15	Welcome and Introduction; Interdisciplinary Brain Medicine as a Concept	Alexandre Henri-Bhargava
13:25	Altered Social Cognitive Function and Other Behavioural Derangements in Frontotemporal Dementia	Tiffany Chow
14:05	Anxiety and Other Behavioural Derangements in Parkinson's Disease	Mohamed M. Gheis
14:45	Depression in Neurological Disease – MS as an Example	Chris Blashko
15:25	Audience Q&A	Alex Henri-Bhargava Moderator Panel: Tiffany Chow, Chris Blashko, Mohamed Gheis

Neurosurgery (CNSS) Day

Study Design in Neurosurgery (8:00-10:30) »
VCC – Saanich Rm

8:00 AM to **3:45 PM**

Co-chairs: John Kestle (Chair); Stephen Lownie (Co-Chair)

Course Description:

Participants will learn about the design of clinical research projects in Neurosurgery. Several research methods will be described (short talks of 10 minutes each), and then the participants will divide into 4 working groups for 40 min. Each group will use one of the research designs to answer the same clinical research question, approaching it from a different design perspective, such as RCT, Administrative data analysis, Registry, and QI. The 4 groups will reconvene and present their research plan for discussion and feedback (15 min each).

By the end of this course participants will:

- Understand the different types of study designs
- Know the advantages and disadvantages of each type

- Improve their approach to the use of studies to answer clinical questions in Neurosurgery

Audience: Neurosurgeon (Adult and Pediatric); Resident; Clinical Fellow

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

Learning Format: Brief lecture followed by small group discussion, followed by summation.

CanMED Roles: Medical Expert, Scholar, Collaborator, Professional

Start Time	Presentation Title	Name of Speaker-Facilitator
08:00	The importance of study design	John Kestle
08:04	Prospective cohort design ("registries")	Jay Riva-Cambrin
08:13	When & how to use administrative data analysis	Cian O'Kelly
08:22	Simulating an RCT with propensity scores	Ab Kulkarni
08:31	Designing randomized surgical trials	Peter Hutchinson
08:40	Goals for Breakout Groups	John Kestle
08:45	Breakout groups (4 groups of 10 participants each)	All
9:15	Presentations (each group has 10 min +5 min discussion)	Groups
10:15	Discussion	All

Difficult Cases in Spine (1:15-3:45) »
VCC – Saanich Rm

Chair: Ramesh Sahjpaul

Course Description:

Three challenging but frequently seen spinal conditions will be discussed using a case-based format.

The first talk will discuss the management of spinal trauma in the setting of ankylosing spondylitis. Discussion will focus on the decision-making process of why and when to operate, the challenges of intubation, surgical positioning and instrumentation.

The second talk will address the management of spinal metastases in the mobile spine. Spinal oncologic principles will be reviewed and attention focused on maintaining/preserving or restoring stability

The third talk will address degenerative lumbar spondylolisthesis. Using an evidenced-based approach, discussion will focus on the surgical options based on degree of instability and instability. Discussion will also include non-fusion options.

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

- understand the complexities of trauma management in ankylosing spondylitis and the unique surgical challenges presented
- understand the treatment options for managing spinal metastases in the mobile spine segments and be able to discuss stabilization options
- understand degenerative spondylolisthesis, when to decompress alone and when to fuse as determined by preoperative factors.

Audience: Neurosurgeons, neurosurgery residents and fellows, nurses with interest in these topics

Learning level: Basic, Intermediate, Advanced

Learning format: Lecture method, case studies, questions and answer sessions

CanMed Roles: Medical expert, scholar, collaborator

Start Time	Presentation Title	Name of Presenter
1:15	Management of spinal trauma in ankylosing spondylitis	Dan Warren
	Managing spinal metastases in the mobile spine	Fawaz Siddiqi
	Degenerative spondylolisthesis current treatment options	Tamir Ailon

Neuroradiology/Neurointervention for Neurosurgeons (1:15-3:45) »
VCC – Esquimalt Rm

Chair: Stephen Lownie

Course Description:

The first talk concerns comprehensive vascular imaging of the carotid and vertebral arteries, and includes modalities such as duplex ultrasound, CT and CT angiography, MRI and MR angiography, and digital subtraction angiography. The NASCET study showed that the risk of ischemic stroke can be stratified based on the measurement of carotid artery stenosis. Imaging of plaque vulnerability and the transcranial detection of emboli are recent added factors in management decision making. This talk will focus upon contemporary carotid imaging relevant to neurosurgical disorders. Atherosclerotic carotid stenosis measurement using the NASCET criteria; the radiographic signs and significance of intraluminal thrombus, approaching near occlusion and near occlusion of the carotid artery; the features of carotid plaque calcification; and the imaging predictors of success and failure with carotid artery stenting will all be reviewed. Imaging of cervical carotid and vertebral dissections will also be highlighted.

The second talk will comprehensively review the imaging of spontaneous intracerebral hemorrhage. Featured subjects will include: prevalence of secondary ICH in the context of verification bias; the lack of utility of a "suspicious" CT scan; and the importance of investigating for secondary causes, including presumed hypertensive basal ganglia bleeds in elderly individuals. Useful patient imaging management algorithms will be shown. This evidenced-based talk promises to challenge conventional wisdom. The results of SPOTLIGHT/ STOP IT studies and recent findings in animal models will give of a taste of what is to come in the field. Case-based difficult imaging situations will also be featured.

The third talk will comprehensively review the imaging of spinal disorders relevant to neurosurgeons, and the role of image-guided spine therapy. Featured subjects will include the common degenerative spine disorders and neoplastic disease, along with highlighting uncommon conditions. Indications and results of minimally invasive procedures including spinal biopsies, vertebroplasty, kyphoplasty, and nerve and facet blocks will be discussed. Novel developments will also be featured.

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

- Understand carotid artery imaging and approach to treatment of common disorders
- Be aware of management algorithms and results of recent studies In the imaging of spontaneous intracerebral hemorrhage
- Be familiar with imaging of spinal disorders and options for interventional management relevant to neurosurgeons

Audience: Neurosurgeon, Neuroradiologist, Neurologist (Adult), 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

CanMED Roles: Medical Expert, Scholar, Collaborator

Start Time	Presentation Title	Name of Presenter
	Carotid artery imaging and approach to treatment	David Pelz
	Imaging of spontaneous intracerebral hemorrhage for neurosurgeons: Management algorithms and results of recent studies	Richard Aviv
	Imaging of spinal disorders and options for interventional management relevant to neurosurgeons	Seon-Kyu Lee

10:45 AM to **11:45 AM**

Poster Moderated Session

VCC – Multiple locations

TOP

Friday| June 23, 2017

Morning coffee available at 8:00 am and again at Brunch from 10:00 - 11:30 am

Afternoon courses run from 11:30 am - 2:00 pm and do not involve a coffee break

8:30 AM to **10:00 AM**

Grand Rounds

VCC – Lecture Theatre

Grand Rounds »

Chair – Alex Henri-Bhargava

CNSS – Moderator TBD, Presenter - Serge Makarenko

CACN – Moderator Anita Datta and Michelle Demos, Presenter - Leeza Looned

CNS – Moderator Hannah Briemberg, Presenter Clark Funnell

Multi-Disciplinary Courses

Exercise as Medicine in Neurological Illness »
VCC – Lecture Theatre

11:30 AM to **2:00 PM**

Chair: Catherine (Kathy) Gaul

Course Description:

It is well recognized that physical inactivity is among the top four modifiable risk factors related to non-communicable disease), and that exercise and physical activity is highly effective in enhancing health and treating, managing, and preventing a large number of chronic diseases. It is indeed "Medicine". This session will explore the role of exercise in health care, with an emphasis on its potential for having a positive influence on neurological patient care. The session will conclude with an audience Q&A supported by an interactive panel discussion.

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

- Appreciate the health benefits of regular physical activity in prevention and management of chronic diseases
- Understand the importance of exercise prescription that is effective and appropriate given the stage of illness progression.
- Describe contemporary and promising motivational practices for facilitating an active lifestyle among the general population.
- Recognize that targeted plasticity may be possible when prescribing a combination of skill-based and aerobic exercise.

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

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
11:30	Welcome & Introductions	Kathy Gaul
11:35	*Exercise IS Medicine*	Kathy Gaul
12:00	*Pushing the plasticity: The role of exercise in the management of neurological illness.*	Michael Gaetz
12:30	*Motivational Speaking: Advice on Exercise Adoption and Adherence for your Patients.*	Joan Wharf Higgins
13:00	*The Importance of High Intensity Exercise In Neurological Rehabilitation: Giving Stroke a H.I.T.*	E. Paul Zehr
13:30	Audience Question & Answer with Panel Discussion	Kathy Gaul, Michael Gaetz, Joan Wharf Higgins, E. Paul Zehr

Concussion/Chronic Traumatic Encephalopathy »
VCC – Saanich Rm

Chair: Michael Ellis

Course Description: This course will provide a review of topics related to concussion spectrum disorders. The program will include comprehensive lectures that focus on the multi-disciplinary management of concussion including the role of neuropsychological testing and the clinical classification and targeted management of postconcussion syndrome. In addition, lectures will focus on the challenges of advising athletes when to consider sport retirement and the neuro-pathological features and emerging biomarkers of chronic traumatic encephalopathy. The program will finish with an expert panel and open Question and Answer period.

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

- Identify indications for neuropsychological testing in patients with concussion
- Recognize how features of the clinical history, physical examination, and graded aerobic treadmill testing results can help classify post-concussion syndrome patients and guide targeted treatment
- Appreciate important considerations for retirement-from-sport decision-making among athletes with sports-related concussion
- Identify the neuro-pathological features and emerging biomarkers of chronic traumatic encephalopathy

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

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

Learning Format: Case studies, Discussion group/ peer exchange/ user groups, Forum/panels, Lecture/plenary method, Question and answer sessions

CanMED Roles: Medical Exper,t Scholar, Communicator, Collaborato,r Manager, Health Advocate, Professional

Start time	Presentation Title	Name of Presenter
11:30	Welcome and Introduction	Michael Ellis
11:35	The role of neuropsychological testing in concussion management	Lesley Ritchie
12:05	Multi-disciplinary management of post-concussion syndrome: illustrative cases	Michael Ellis
12:35	Considerations for sports retirement: a clinical approach	Charles Tator
13:05	Chronic traumatic encephalopathy: pathology and novel biomarkers	Carmela Tartaglia
13:35	Audience Question & Answer	Michael Ellis, Lesley Ritchie, Charles Tator, Carmela Tartaglia

Chronic Pain Management for Neuroscience Clinicians »
VCC – Oak Bay Rm

Chair: John Xavier Pereira

Description

This chronic non-cancer pain course will provide a review of the state of the art in persistent pain management. The program will begin with the timely topic of medical marijuana for pain, which then will be contrasted with opioids benefits and risks. Next the fundamentals of quantitative sensory testing will be presented along with clinical pearls of long-term pain management. The session will conclude with an interactive panel discussion of hot topics with active audience engagement.

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

- Recognize the myriad of different legal medical marijuana options
- Recall new information on the risks of opioids long-term
- Appreciate the value of quantitative sensory testing

Audience: Neurologist – Adult, Neurosurgeon, Neuro Physiologist, Fellow, Nurses, Medical Student,

Learning Level: Intermediate, Advanced

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

CanMEDs Roles: Medical Expert, Scholar, Communicator, Professional

Time	Presentation Title	Name of Presenter
11:30	Welcome and Introduction	John Xavier Pereira
11:35	Medical Marijuana for Pain	John Xavier Pereira
12:05	Opioids: Is there a better way?	Robert Tanguay
12:35	Quantitative Sensory Testing	Pam Squire
13:05	Clinical Pearls in Practice	Robert Hauptman
13:35	Hot Topics - Panel Discussion with audience participation	John Xavier Pereira Moderator; Panel – Robert Tanguay, Pam Squire and Robert Hauptman

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2017 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 2017 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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2017 Abstracts

CNSF 2017 Congress Abstract Program

2017 CNSF Abstract Supplement to the CJNS Journal

2016 CNSF Abtract Supplement to the CJNS Journal

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2017 Society Prize Winners

Congratulations to the following CNSF members that have been awarded 2017 Society Prizes.

Be sure to attend the Grand Plenary session on Wednesday morning when they will present their work.

The Canadian Neurological Society

2017 Francis McNaughton
Recipient: Raed A. Joundi
Title as submitted: "Outcomes after gastrostomy tube placement in patients with acute stroke: A 10-year population-based study using the Ontario Stroke Registry"

2017 Andre Barbeau
Recipient: Kristin Ikeda
Title as submitted: "Network connectivity following a single unprovoked seizure using 7 Tesla resting-state fMRI"

The Canadian Association of Child Neurology

2017 The President's Prize
Recipient: Kristine Woodward
Title as submitted: "Sensory-motor network functional connectivity in hemiparetic children with perinatal stroke"

The Canadian Neurosurgical Society

2017 K.G. McKenzie Memorial Prize Basic Neuroscience Research
Recipient: Daipayan Guha
Title as submitted: "Quantification of computational geometric homogeneity in surface-based registration for spinal intra-operative three dimensional navigation"

2017 K.G. McKenzie Memorial Prize Clinical Research
Recipient: Stefan Lang
Title as submitted: "Resting state functional connectivity: a biomarker for pre-operative cognitive function and cognitive outcome following surgery in patients with diffuse glioma"

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Society & Business Meetings

Society AGMS

Society Annual General Meetings

- **Canadian Neurological Society (CNS)**
  Tuesday, June 20, 4:30 p.m. – 5:30 p.m.
  Victoria Conference Centre – Oak Bay Room (level one)

- **Canadian Neurosurgical Society (CNSS)**
  Wednesday, June 21st, 12:45 pm – 2:15 pm
  Empress Hotel, Rattenbury A Room (lower lobby level)

- **Canadian Society of Clinical Neurophysiologists (CSCN)**
  Thursday, June 22nd, 7:00 am – 8:00 am
  Empress Hotel, Shaughnessy Ballroom (lower lobby level)
-
- **Canadian Association of Child Neurology (CACN)**
  Thursday, June 22nd, 3:45 pm – 5:15 pm
  Victoria Conference Centre – Oak Bay Room (level one)

Business Meetings

	Time	Room
Monday, June 19th		
RCSPC – Neurology Specialty Committee	1:00pm	Empress Hotel – Library (lobby level)
CNSF and NSFC Board Meetings	5:00 pm	Empress Hotel – Rattenbury A Room (lower lobby level)
Tuesday, June 20th		
CNSF SPC / PDC Committee Meeting	7:00 am – 8:15 am	Victoria Conference Centre – Colwood Room (level 2)
RCSPC – Neurosurgery Specialty Committee	11:00 am	Empress Hotel – Library (lobby level)

Wednesday, June 21st		
CSCN EEG Section Meeting	7:00 am – 8:00 am	Empress Hotel – James Board Room (lower lobby level)
CSCN EMG Section Meeting	12:45 pm – 2:15 pm	Empress Hotel – James Board Room (lower lobby level)
Canadian Headache Society	12:45 pm – 2:15 pm	Empress Hotel – Library (lobby level)
CAET	3 day meeting	Victoria Conference Centre – Colwood Room (level 2)
Thursday, June 22nd		
CJNS Journal Editorial Board & Associate Editors Meeting	6:30 am – 8:00 am	Empress Hotel – Library (lobby level)
CNSF Clinical Practice Guidelines Committee / Affiliates Societies / Advocacy Committee Meeting	11:45 pm – 1:15 pm	Empress Hotel – Library (lobby level)
CAET	3 day meeting	Victoria Conference Centre – Colwood Room (level 2)
AETC	2 day meeting	Victoria Conference Centre – Sidney Room (level 2)
Friday, June 23rd		
CAET	3 day meeting	Victoria Conference Centre – Colwood Room (level 2)
AETC	2 day meeting	Victoria Conference Centre – Sidney Room (level 2)

CSCN Exams

- General Information
- EEG Examinations
- EMG Examinations

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Networking & Social Events

Wednesday, June 21, 2017

Sponsors & Exhibitor's Reception 5:00 pm - 7:00 pm For Registered delegates
Join your colleagues in the Victoria 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.

Resident's Social 7:00 pm - 9:00 pm For Registered delegates
The residents' social will be held in the Empress Hotel, Palm Court (lobby level) and will provide residents with an occasion to network with colleagues and staff physicians in an informal setting. There will be a job fair at the 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.

CACN Dinner – 8:30 pm – Tickets available for CACN members and guests
Join your colleagues for our annual group social event. Details HERE

Thursday, June 22, 2017

Lunch in the Exhibit Hall 11:45 am - 1:15 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 Pub Social 6:30 pm at the Bard & Banker (sold out)
Open to ticket holders only. Tickets must have been pre-ordered through the online Congress Registration.

Friday, June 23, 2017

CNSF Congress Brunch 10:00 am - 11:30 am For Registered delegates
Join us for brunch 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 2017 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	Title	MOC Hours
Tuesday, June 20, 2017	**Hot Topics in Neurology: The Current Future of Neurology**	2.50
	Hot Topics in Child Neurology	2.50
	Hot Topics in Neurosurgery: Recent Advances in Neurosurgery	2.50
	Hot Topics in Clinical Neurophysiology: Advances in Neuromuscular Autoimmune Disease	2.50
	Resident Course – Neurology: Resident Neuroimaging Review, pediatric	2.50
	Poster Moderated Sessions	1.00
	Resident Course - Neurology : Resident Neuroimaging Review, adult	2.50
	Resident Course - Neurosurgery: Pediatric Neurosurgery	2.50
	Trends in the Neurosciences	2.50
	Competency by Design	2.50
	Epilepsy Video Session– Clinical Case Studies	2.00
	Neuromuscular – Clinical Case Studies	2.00
	Movement Disorders - Clinical Case Studies	2.00
	Headache: Chronic Migraine – Clinical Case Studies	2.00
	Neurosurgery-Fireside Chat – Clinical Case Studies	2.00

	Tuesday – Total possible hours	**8.00**
Wednesday, June 21, 2017	**Grand Plenary Lectures** **CNS – Richardson Lecture (Neurology) – Sandra Black** **CACN - Tibbles Lecture (Child Neurology) – Darcy L. Fehlings** **CSCN - Gloor Lecture (Neurophysiology) – Nens van Alfen** **CNSS - Penfield Lecture (Neurosurgery) – John R. W. Kestle** **Society Prize Presentations**	3.50
	CACN, CNSS, CNS/ CSCN Chair's Select Abstract Presentations	1.00
	Co-Developed Course: Changing the course of MS: high efficacy therapeutic options	1.50
	Co-Developed Course: Recent Advances in CSF analysis in Cognitive Impairment	1.50
	Update in Headache Medicine: Management of Medication Overuse	2.50
	Stroke-Medical and Surgical Aspects	2.50
	Movement Disorders	2.50
	Brain Tumour Board-Neuro-oncology for Neurologists and Neurosurgeons	2.50
	Neuro-ophthalmology	2.50
	Wednesday – Total possible hours	**8.50**
Thursday, June 22, 2017	**Child Neurology (CACN) Day: AM –** Pediatric Movement Disorders	2.50
	Child Neurology (CACN) Day: PM – Pediatric Movement Disorders	2.50
	Neurophysiology (CSCN) Day: AM – Pitfalls in the Interpretation of EEG	2.50
	Neurophysiology (CSCN) Day: PM – EMG in Everyday Practice	3.00

	Neurology (CNS) Day - AM – Behavioral Neurology: the Basics and Beyond	2.50
	Neurology (CNS) Day - PM – Neuropsychiatric Manifestations of Neurological Disease	2.50
	Neurosurgery (CNSS) Day: AM – Study design in neurosurgery	2.50
	Neurosurgery (CNSS) Day: PM – Difficult Cases in Spine	2.50
	Neurosurgery (CNSS) Day: PM – Neuroradiology/Neurointervention for Neurosurgeons	2.50
	Poster Moderated Sessions	1.00
	Thursday – Total possible hours	**6.50**
Friday, **June 23, 2017**	**Grand Rounds**	1.50
	Exercise in Neurological Illness	2.50
	Concussion/Chronic Traumatic Encephalopathy	2.50
	Chronic Pain Management for Neuroscience Clinicians	2.50
	Friday – Total possible hours	**4.00**

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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

The 2017 Exhibit Hall is Sold Out

Remember to book early for 2018!
Applications for 2018 will be available this December.

2017 On-Site Exhibit Information:

The 2017 Exhibitor Manual is now available! Please review the information and share with your suppliers.

- Exhibitor Manual

We look forward to working with you as you plan your successful participation in CNSF 2017 being held in beautiful Victoria, BC this June 21-23

- Exhibit Hall Floor Plan

Should you have any questions please contact:

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

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Onsite Exhibits

Welcome to the 2017 On-Site Exhibits!

Victoria Conference Centre – Carson Hall AB
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 HOURS
Wednesday, June 21st: 5:00 pm to 7:00 pm
Thursday, June 22nd: 10:00 am to 6:00 pm
Friday, June 23rd: 10:00 am to 12:00 pm

Exhibitor's Reception in the Exhibit Hall - Wednesday, June 21st
Free Admission for Registered delegates **5:00 pm - 7:00 pm**
Join your colleagues in the 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.

Lunch in the Exhibit Hall - Thursday, June 22nd
Free Admission for Registered delegates **11:45 am - 1:15 pm**
Enjoy some lunch, network with colleagues and check out the latest developments in medical devices, pharmaceuticals and opportunities in the neurosciences.

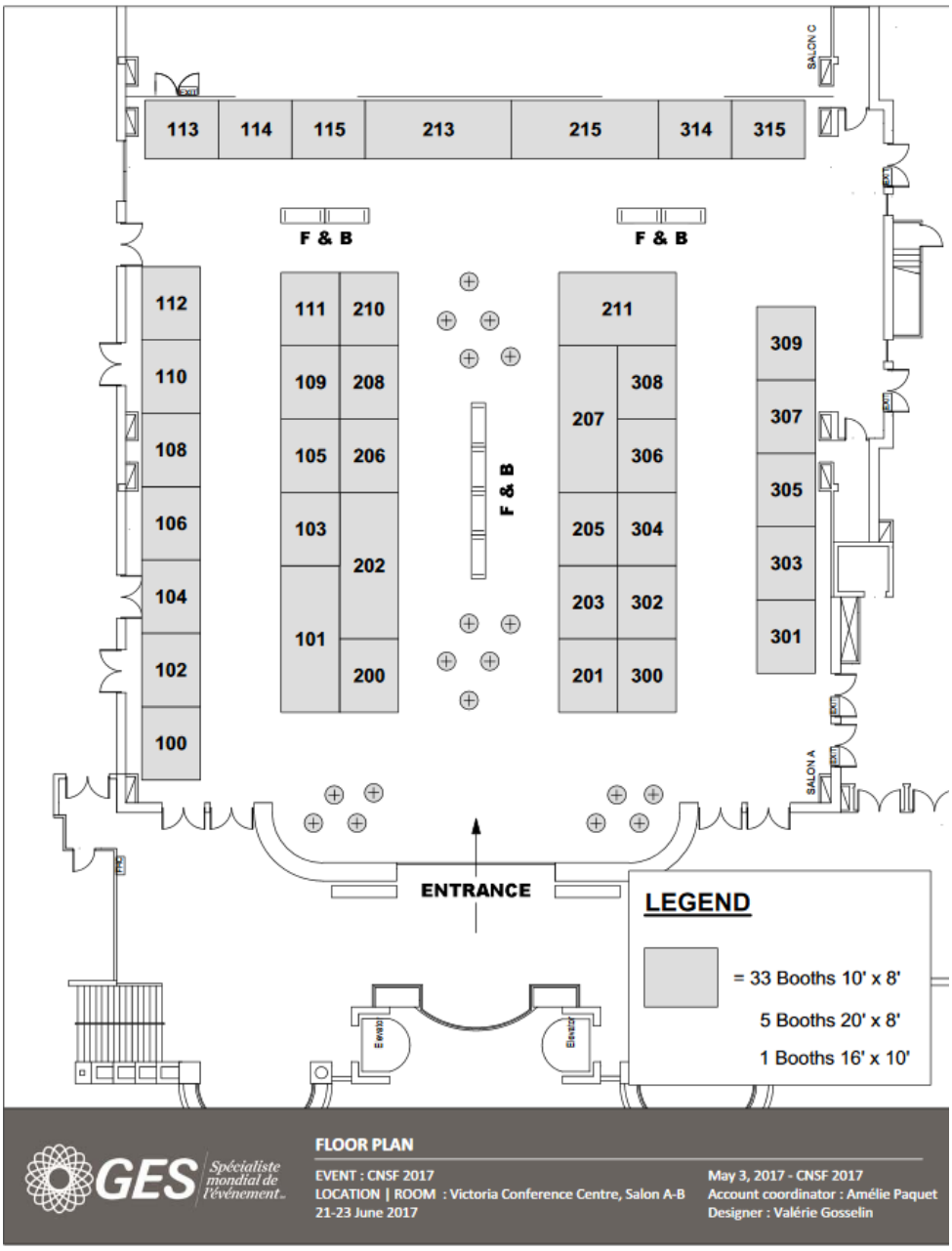
CNSF Congress Brunch in the Exhibit Hall - Friday, June 23rd
Free Admission for Registered delegates **10:00 am - 11:30 am**
Join us for brunch in the Exhibit Hall and one last tour of the Exhibitors' booths

2017 Exhibitors

Exhibitor	Booth #
abbvie	314
Athena Diagnostics	103
Biogen Idec	301
Blueprint Genetics	304
Cambridge University Press	306
Codman Neuro	105
CSL Behring Canada	308
Eisai	206
EMD Serono	210
Fraser Health	104
GeneDx	111
Grifols	208
Hoffmann-La Roche Limited - The Role of B Cells in MS	200
Hoffmann-La Roche Limited - Disease Activity in MS	201
Integra LifeSciences	213
Integra - Tech Suite	215

Interior Health	113
KEGO Corporation	115
Koven Technology Canada Inc.	109
LifeLabs	112
Medtronic of Canada Ltd.	207
Medtronic - Tech Suite	211
Natus	309
Neurocode Labs Inc.	108
NeuroSource Medical	100
Novartis	202
Renishaw Healthcare Inc	102
Roxon medi-tech ltd.	300
Sanofi Genzyme - MS	205
Sanofi Genzyme - Rare Diseases	203
Stryker	106
Sunovion Pharmaceuticals	307
Surgi-One Medical Technologies Inc.	302
Synaptive Medical	101
Terumo BCT	305
The Electrode Store	315
Trudell Medical Marketing Limited	303
UCB Canada	110
ZEISS Canada	114

Exhibit Hall Map



2017 Exhibitor profiles

Learn more about our Exhibitors by visiting them during the Congress and at their Virtual Booths in Industry Updates http://iu.cnsfederation.org/

Should you have any questions please contact:
Rozanne Lyons, CMP - Exhibit Coordinator
613-238-6600 ext. 221
cnsf@intertaskconferences.com

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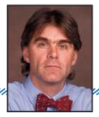

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Leyila **Kaseka**
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Bill **Wang**
CNSF/NSFC BOARD MEMBER
CNSS Resident Rep

2017 Congress Planning Committee

The Canadian Neurological Sciences Federation (CNSF) is composed of 4 Societies:
• Canadian Neurological Society (CNS) • Canadian Association of Child Neurology (CACN)
• Canadian Neurosurgical Society (CNSS) • Canadian Society of Clinical Neurophysiologists (CSCN)

Members from each of the 4 Societies 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

Joe Megyesi	PDC Chair (CNSS)
Aleksandra Mineyko	PDC Vice-Chair (CACN)
Tejas Sankar	SPC Chair (CNSS)
Alexandre Henri-Bhargava	SPC Vice-Chair (CNS/CSCN)
Chintankumar Shah	PDC (CACN)
Shannon Venance	PDC (CSCN)
Michael Esser	SPC (CACN)
Craig Campbell	SPC (CACN)
Philippe Couillard	SPC (CNS)
Gelareh Zadeh	SPC (CNSS)
Danielle Andrade	SPC (CSCN)
Seyed Mirsattari	SPC (CSCN)
Leyila Kaseka	SPC, PDC (CACN)
Theo Mobach	SPC, PDC (CNS)
Bill Wang	SPC, PDC (CNSS)
Mark Bigder	SPC, PDC (CNSS)
Jeanne Teitelbaum	CNSF President, PDC (CNS)
Kesh Reddy	CNSF Vice-President, SPC (CNSS)
Sharon Whiting	CNSF Vice-President, SPC (CACN)
Dan Morin	CNSF CEO, SPC, PDC

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