FINAL PROGRAM
JUNE 18-21, 2014
Combined Meeting of The American Orthopaedic Association and the Canadian Orthopaedic Association

AFFILIATED EVENTS
JUNE 17-18, 2014
Resident Leadership Forum
Emerging Leaders Forum
JUNE 18, 2014
CORA Annual Meeting
JUNE 19, 2014
CORS Annual Meeting
JUNE 20-21, 2014
CORD Conference

PROGRAMME FINALE
DU 18 AU 21 JUIN 2014
Réunion conjointe de l’American Orthopaedic Association et de l’Association Canadienne d’Orthopédie

SOCIÉTÉS AFFILIÉES
LES 17 ET 18 JUIN 2014
Forum des résidents sur le leadership
Forum des nouveaux leaders
LE 18 JUIN 2014
La Réunion annuelle de l’ACRO
LE 19 JUIN 2014
La Réunion annuelle de La SROC
LES 20 ET 21 JUIN 2014
La Réunion du CORD
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<td>Instructional Course Lectures</td>
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<td>CORS Paper Sessions*</td>
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<td>Symposium #1: Whoever Holds the Data Holds the Power: What Should Each of Us be Collecting and Monitoring? - 210AB</td>
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<td>Cors Symposium/Macnab Lecturer: Josh Leon, P. Eng - 513C</td>
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<td>Symposium #2: Risk Stratification for Orthopaedic Surgery Patients - 210AB</td>
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<td>R.I. Harris Memorial Lecture: Cecil H. Rorabeck, OC, MD, FRCSC; COA Past-President, 2001 - 510A</td>
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<td>Symposium #7: Sufficient Competence to Enter the Unsupervised Practice of Medicine: What Is It, When Does It Occur, and Do We Know It When We See It? - 210AB</td>
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*Please see Agenda for room numbers.
• Resident Leadership Forum (RLF) Breakouts 513CDEF
• Canadian Orthopaedic Research Society (CORS) meeting 513C & 513D

• Emerging Leaders Forum (ELF) 512C

• Canadian Orthopaedic Residents’ Association (CORA) meeting 513A
• Speaker Ready Room 512A

• COA Business Meeting 511EF
• AOA Department Leadership Forums 511E

• Resident Leadership Forum (RLF) 510A
• Council of Orthopaedic Residency Directors (CORD) Meeting 510A
Palais des congrès
Level 2

- Exhibit Hall
- Meal Service
- Coffee Breaks
- Posters
- 210D

- Plenary/General Sessions
- AOA Business Meeting
  210AB

- AOA/COA Registration Desk
  210 Foyer
Dear Members and Colleagues,

On behalf of The American Orthopaedic Association (AOA) and The Canadian Orthopaedic Association (COA), it is our pleasure to welcome you to the third Combined Meeting and affiliated events in the exciting and distinctive city of Montréal.

Together, we will cross more than just geographic borders, but borders of hospital systems, practice settings, subspecialties, and cultural expectations and/or norms. We look forward to thought-provoking engagement with today’s leaders from across our orthopaedic community. We also look forward to the interactions and conversations with the orthopaedic leaders of tomorrow—our Residents and Emerging Leaders. We welcome our allied health professionals, exhibitors, and other guests.

Our Program Chairs, Serena S. Hu, MD, Stefan Parent, MD, and Étienne Belzile, MD, have worked in collaboration with the combined Program Committees to organize and coordinate a unique scientific meeting that highlights the best traditions and components of both the AOA and COA. We are confident that you will find it to be a valuable educational experience.

We look forward to introducing you to three of our remarkable guest speakers. Geoffrey Molson, the Howard H. Steel, MD, Orthopaedic Foundation Lecturer, will enlighten us on Beer, Hockey, and the Community. Presidential Guest Speaker Cy Frank, MD, FRCSC, will focus on a critical issue facing orthopaedics, Orthopaedics as the Model for Health Care, while R.I. Harris Lecturer, Cecil H. Rorabeck, OC, MD, FRCSC, President of the Royal College of Physicians and Surgeons, will address the Future Direction of Surgical Education.

We relish the time set aside to mingle with friends and meet new colleagues. We hope to see you at the Presidents’ Welcome Reception on Wednesday evening, during breaks, and at Friday night’s “An Evening at le Cirque” event.

It has been an honor for us to serve as presidents of our respective organizations and we anticipate the learning and enjoyment in the days ahead as we advance orthopaedics across borders.

Sincerely,

[Signature]

Edward J. Harvey, MDCM, MSc
COA President

Scott D. Boden, MD
AOA President
À tous les membres de l’ACO et de l’AOA,

Nous sommes heureux de vous accueillir, au nom de l’American Orthopaedic Association (AOA) et de l’Association Canadienne d’Orthopédie (ACO), à notre troisième réunion annuelle conjointe et aux manifestations afférentes, dans la dynamique et unique ville de Montréal.

Au-delà de la géographie, nous repousserons ensemble les frontières entre les réseaux hospitaliers, les milieux d’exercice, les sous-spécialités, les normes et les attentes culturelles. Nous avons hâte aux conférences qui suscitent la réflexion offertes par les leaders de la communauté orthopédique. Nous avons également hâte d’interagir et d’échanger avec nos résidents et leaders émergents, qui constituent l’élite de demain. Enfin, nous souhaitons la bienvenue aux professionnels des soins de santé connexes, aux exposants et aux autres invités.

Les Drs Serena S. Hu, Stefan Parent et Étienne Belzile, coprésidents du Comité responsable du programme, ont collaboré avec les comités conjoints afin d’organiser une réunion scientifique unique qui met en vedette le meilleur des deux associations et de leurs traditions. Nous sommes persuadés que vous vivrez une expérience de formation de grande valeur et avons hâte de vous présenter trois de nos conférenciers invités de marque, soit Geoffrey Molson, conférencier de la Howard H. Steel Orthopaedic Foundation, qui nous entretiendra de Bière, hockey et communauté; Cy Frank, MD, FRSC, conférencier invité par les présidents, qui mettra l’accent sur une question critique en orthopédie, soit Modeler les soins de santé sur l’orthopédie; et Cecil H. Rorabeck, OC, MD, FRSC, président du Collège royal des médecins et chirurgiens du Canada, qui donnera la Conférence R.I. Harris, intitulée L’orientation adoptée en formation chirurgicale.

Enfin, nous sommes très heureux du temps prévu pour échanger avec des amis et faire de nouvelles rencontres. Nous espérons vous voir pendant les pauses, et que vous serez des nôtres à la réception des présidents, le mercredi soir, et à la Soirée au cirque, le vendredi soir.

Ce fut un privilège d’assumer la présidence de votre association, et nous avons très hâte de partager avec vous les connaissances et les plaisirs qui marqueront les jours à venir, alors que nous franchirons ensemble les frontières de l’orthopédie.

Veuillez agréer nos salutations les plus distinguées.

[Signature]
Dear Friends and Colleagues,

It is our great pleasure to welcome you to this exceptional meeting as The American and Canadian Orthopaedic Associations come together in Montréal to present this Combined Meeting of our two Associations. We know you will enjoy the camaraderie of discovering commonalities across the borders, just as we discovered that we are all McGill University alumni.

We think you will enjoy this engaging educational program, which blends the COA’s traditional clinical content and the AOA’s critical issues symposia, leadership education, and academic programming. Scientific programming includes 14 Instructional Course Lectures, 180 podium presentations, and 150 scientific posters. The Leadership and Critical Issues programming is comprised of seven symposia and the discussion on *Small Change, Big Impact: The Science of Influence* from Boaz Keysar, PhD. Two Department Leadership Forums provide content for the academic orthopaedist.

The affiliated events also contain significant educational content. On Tuesday and Wednesday, residents recognized as leaders by their department chair or program director will participate in the 2014 AOA Resident Leadership Forum (RLF), while Canadian residents attend the Canadian Orthopaedic Residents’ Association (CORA) Meeting. During this same time, the AOA’s Emerging Leaders Forum (ELF) will provide members of the AOA’s Emerging Leaders Program with essential leadership concepts, discussions, and thought-provoking exercises.

On Thursday, Combined Meeting attendees are encouraged to join the Canadian Orthopaedic Research Society (CORS) for their meeting. Posters and podium presentations will offer important findings in fundamental and clinical orthopaedic research. On Friday and Saturday, the AOA’s Council of Orthopaedic Residency Directors (CORD) Program will hold a conference addressing a range of critical topics in training orthopaedic residents.

As always, the AOA and COA strive for excellence in programming. We thank you, on behalf of the combined Program Committees, for joining us for what we believe will be a fascinating educational exploration.

Sincerely,

Serena S. Hu, MD,
2014 Program Chair,
The American Orthopaedic Association

Stefan Parent, MD,
2014 Program Chair,
Canadian Orthopaedic Association

Étienne Belzile, MD
2014 Program Co-Chair,
Canadian Orthopaedic Association
Chers collègues,

Nous sommes très heureux de vous accueillir à Montréal à l’occasion de la réunion conjointe exceptionnelle de l’American Orthopaedic Association (AOA) et de l’Association Canadienne d’Orthopédie (ACO). Nous savons que vous apprécierez cette occasion de découvrir chez vos collègues de l’autre côté de la frontière tout ce que vous avez en commun, tout comme nous avons découvert avec bonheur que nous sommes tous diplômés de l’Université McGill.

Nous croyons que vous apprécierez également le programme de formation fort intéressant qui vous est proposé, et qui allie le contenu clinique traditionnel de la Réunion annuelle de l’ACO aux symposiums sur des questions critiques, à la formation sur le leadership et aux activités de formation typiques du congrès annuel de l’AOA. Le volet scientifique comprend 14 conférences d’enseignement, 180 exposés et 150 affiches scientifiques, tandis que le volet leadership et questions critiques est composé de 7 symposiums et d’une discussion suivant l’allocution de Boaz Keysar, Ph.D., intitulée Petit changement, grande incidence : La science de l’influence. En outre, deux forums sur le leadership au sein d’un département proposent du contenu intéressant aux universitaires.

Les manifestations afférentes offrent aussi un contenu informatif considérable. Les mardi et mercredi, les résidents en orthopédie reconnus comme leaders par leur chef de département ou directeur de programme prendront part au forum des résidents sur le leadership 2014 de l’AOA, tandis que tous les résidents canadiens assisteront à la Réunion annuelle de l’Association canadienne des résidents en orthopédie (ACRO). Entre-temps, le forum des nouveaux leaders de l’AOA permettra aux membres du programme connexe de l’AOA de découvrir des concepts essentiels en leadership, de discuter et de participer à des activités qui suscitent la réflexion.

Le jeudi, les participants à la Réunion annuelle conjointe sont invités à assister à la réunion de la Société de recherche orthopédique du Canada (SROC). Des conclusions importantes en recherche fondamentale et clinique en orthopédie seront communiquées sous forme d’affiches et d’exposés. Les vendredi et samedi, le Council of Orthopaedic Residency Directors (CORD) de l’AOA tiendra une conférence sur un éventail de questions critiques en matière de formation des résidents en orthopédie.

Comme toujours, l’AOA et l’ACO visent l’excellence. Nous vous remercions, au nom des comités responsables du programme conjoint, de vous joindre à nous à l’occasion de ce que nous estimons une expérience d’apprentissage fascinante.

Veuillez agréer, chers collègues, nos salutations les plus distinguées.
Montréal

Marked by its past, proud of its bicultural heritage, and further enriched by immigration, Montréal lives up to its reputation as an international city. Some 3.4 million inhabitants who represent no fewer than 80 different ethnic groups call Montréal home.

The second-largest French-speaking city in the world, Montréal hosted one of the most impressive world fairs of the century in 1967, as well as the 1976 Summer Olympic Games. Because Montréal always loves to celebrate, it has become a city of dazzling international festivals.

Among elegant skyscrapers, old Victorian manors, and major shopping centres, renowned boutiques and restaurants compete with the cafés and nightclubs for which Montréal is known. Its parks and green spaces, like those of Mount Royal, the parc Jean-Drapeau (parc des îles) and the Lachine Canal, offer breathtaking panoramas and provide outdoor enthusiasts with year-long facilities. Spectacular theme attractions about the Earth’s ecosystems, science or space offer a total sensory experience for young and old alike. And don’t forget the internationally renowned Botanical Garden and its remarkable Insectarium.

Dynamic and modern, but respectful of its architectural heritage, Montréal successfully blends the old with the new.

Authors/Presenters
The presenter’s name is printed in italics for Paper Presentations. The representing author’s name is printed in italics for Poster Displays. Representing authors have been asked to stand by his/her poster during breakfasts and coffee breaks each day to answer questions and discuss their posters.

Committee Meetings
Refer to page 32 for a detailed list of COA Committee Meetings and page 34 for AOA Committee Meetings.
CME

AOA—This activity has been planned and implemented in accordance with the Essential Areas and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint sponsorship of the American Academy of Orthopaedic Surgeons and The American Orthopaedic Association. The American Academy of Orthopaedic Surgeons is accredited by the ACCME to provide continuing medical education for physicians.

The American Academy of Orthopaedic Surgeons designates this live activity for a maximum of 21.25 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

COA—This educational event is approved as an Accredited Group Learning Activity under Section 1 of the Framework of Continuing Medical Education (CME) continued Professional Development options for the Maintenance of Certification Program of the Royal College of Physicians and Surgeons of Canada. The participant will receive one credit per hour for activities attended in this program with a maximum of 18.0 credit hours.

Disclosures

AOA—Each participant in the 2014 Combined Meeting of The American Orthopaedic Association and the Canadian Orthopaedic Association has been asked to disclose if he or she, or a member of their immediate family, has a financial interest or other relationship with a commercial company or institution which relates directly or indirectly to the subject of his or her presentation. An indication of the participant’s disclosure will appear online at www.aoacoa2014.org after his or her name, as well as the commercial company or institution that provided the support. In addition, if the participant discloses he or she does not have any financial interests or commitments, this information will be indicated. The AOA and COA do not view the existence of these disclosed interests or commitments as necessarily implying bias or decreasing the value of the author’s participation in the 2014 AOA/COA Combined Meeting.

COA—The COA is a Royal College of Physicians and Surgeons of Canada (RCPSC) accredited provider. The 2014 Combined Meeting of The American Orthopaedic Association and Canadian Orthopaedic Association in Montréal, Québec, from June 17-21, 2014, is accredited under Section 1 of the RCPSC Maintenance of Certification program. As such, the meeting meets the Canadian Medical Association guidelines governing the relationship between physicians and industry.

All authors and presenters are required to disclose whether they have a financial interest or other relationship with a commercial company related directly or indirectly with the scientific or educational material presented at the Combined Meeting to ensure compliance with the CMA guidelines and Royal College accredited education event requirements.

The options to disclose are as follows:

1. Research or institutional support
2. Miscellaneous non-income support (e.g., equipment or services), commercially derived honoraria, or other non-research related funding (e.g., paid travel)
3. Royalties
4. Stock or stock options
5. Consultant or employee fees

Specific disclosures can be found in the Disclosure section on the microsite for the 2014 AOA/COA Combined Meeting at www.aoacoa2014.org.

Disclaimer

Disclaimer (COA participants only)—The COA disclaims any or all liability for injury or other damages resulting to any individual attending the 2014 Combined Meeting of The American Orthopaedic Association and The Canadian Orthopaedic Association and for all claims which may arise out of the use of the techniques demonstrated therein by such individuals whether these claims shall be asserted by physician or any other person.

FDA Disclaimer (AOA participants only)—Some drugs or medical devices demonstrated at the Combined Meeting have not been cleared by the FDA or have been cleared by the FDA for specific purposes only. The FDA has stated that it is the responsibility of the physician to determine the FDA clearance status of each drug or medical device he or she wishes to use in clinical practice.
General Information

Donations
For your convenience, donations to the AOA can be made by completing the designated donation form and slipping the form and payment into the AOA donation box located near the AOA/COA Registration Desk. Donations to the Canadian Orthopaedic Foundation can be made by completing the designated donation form and dropping the form and payment off at the Foundation booth, booth 625, in the Exhibit Hall during exhibitor hours.

Exhibit Hall
The Exhibit Hall is conveniently located next to the Plenary Session on Level 2 of The Palais des congrès de Montréal. For a listing of all exhibiting companies, please see page 139.

The AOA/COA Presidents’ Welcome Reception is on Wednesday evening in the Exhibit Hall. All registrants receive a complimentary ticket to this event. Attendees are invited to a complimentary lunch in the Exhibit Hall on Thursday and Friday afternoons.

Exhibit Hall hours
- Wednesday, June 18: 7:00pm-9:00pm
- Thursday, June 19: 9:00am-4:00pm
- Friday, June 20: 9:00am-4:00pm

Posters
All posters for the Combined Meeting, CORS, CORD, CORA, and OMeGA will be displayed in the Exhibit Hall, 210D, adjacent to the Plenary Session. Please join us on Wednesday evening for the Presidents’ Welcome Reception, as well as on Thursday and Friday for continental breakfasts, coffee breaks, and lunches. Authors from poster displays are encouraged to be near their poster displays during breakfasts and coffee breaks each day. CORD and OMeGA posters will be moved to 510A on Friday, June 19.


Program Objectives
Attendees of the 2014 Combined Meeting of The American Orthopaedic Association and The Canadian Orthopaedic Association will discuss and debate, formally and informally, controversies in orthopaedic practice, science, ethics, education, economics, and social issues. Physicians will also advance their knowledge of orthopaedic surgery and science and learn new practices that can be implemented to improve patient care. Attendees will also:

- Review and evaluate the results of clinical advances in the diagnosis and management of common orthopaedic diseases in the areas of traumatology, arthroplasty, foot and ankle, upper extremity, spine, sports medicine, pediatrics, and tumor.
- Update and expand their understanding of the advances in basic science research in musculoskeletal health and disease, and apply this understanding to current clinical challenges and the improvement of patient outcomes.
- Establish strategies that balance both benefit and risk in the care of specific orthopaedic maladies and describe the expected patient outcomes.

Registration Fees
All fees listed are in Canadian dollars.

Registration Hours
The Combined Meeting Registration Desk is located in 210 Foyer, in front of the Plenary Session room:
- Tuesday, June 17: 7:00am-5:00pm
- Wednesday, June 18: 6:00am-7:30pm
- Thursday, June 19: 6:00am-5:00pm
- Friday, June 20: 6:00am-5:00pm
- Saturday, June 21: 6:30am-11:00am

COA Secretariat can be found in room 512E

Special Needs
If you or any guests accompanying you have special needs, please notify the staff at the AOA/COA Registration Desk. Special needs include, but are not limited to, the following:
- Dietary needs (Vegetarian, Kosher, or dietary restrictions)
- Wheelchair accessibility
- Other physical access needs
Speaker Ready Room
The Speaker Ready Room is located in 512A. All speakers for the Combined Meeting and affiliated events must check in and download their presentation at the Speaker Ready Room at least 24 hours prior to their presentation. Speakers who downloaded their presentations in advance of the meeting are still encouraged to check in at the Speaker Ready Room prior to their presentation.

Speaker Ready Room Hours:
- Tuesday, June 17: 6:30am-5:00pm
- Wednesday, June 18: 6:00am-6:30pm
- Thursday, June 19: 6:00am-5:00pm
- Friday, June 20: 6:00am-5:30pm
- Saturday, June 21: 6:30am-12:15pm

QUESTIONS?
Come by the AOA/COA Registration Desk, located in 210 Foyer, for answers to any additional questions.

The AOA and COA are authorized to use photos from the 2014 Combined Meeting and affiliated events in AOA and COA marketing materials, newsletters, program books, website, and other AOA and COA publications. If you do not authorize the AOA and COA to use your photo, please send written notification to meetings@aoassn.org or meetings@canorth.org. Please also indicate your wish if you see a photographer taking your picture.

General Information
The 2014 Combined Meeting Event App is your essential meeting tool providing exclusive access to:
- Day-by-day program information and schedules
- Interactive Audience Response System
- Session evaluation forms
- Daily alerts, updates and more!

Download the app by scanning the codes below or by searching for The American Orthopaedic Association or The Canadian Orthopaedic Association in the App Store or in Google Play.

**If you have previously installed the App on your device, download the update in the App Store or in Google Play.**

Download the 2014 Combined Meeting Event App!
*Téléchargez l’application de la Réunion annuelle conjointe 2014!*

L’application de la Réunion annuelle conjointe 2014 est un outil essentiel à votre expérience puisqu’il vous assure un accès exclusif à ce qui suit :
- Renseignements quotidiens sur le programme et l’horaire
- Système de réponse de l’auditoire
- Formulaires d’évaluation de la formation
- Alertes et mises à jour quotidiennes, et plus encore!

Montréal

Conservant l’empreinte de son passé, fière de son patrimoine biculturel enrichi par l’apport de ses immigrants, Montréal est à la hauteur de sa réputation de ville internationale, abritant près de 3,4 millions d’habitants représentant 80 groupes ethniques.

Deuxième ville de langue française au monde après Paris, Montréal a accueilli en 1967 l’exposition universelle la plus impressionnante du XXe siècle, puis les Jeux olympiques d’été en 1976. Et, comme Montréal est une ville où tout est prétex à la fête, on y tient une série de festivals internationaux éblouissants.

Outre ses gratte-ciel élégants, ses manoirs victoriens et ses grands centres commerciaux, la ville est réputée pour ses boutiques et ses restaurants, de même que ses cafés et ses boîtes de nuit. Ses parcs et autres espaces verts, comme le mont Royal, le parc Jean-Drapeau et le canal Lachine, offrent un panorama époustouflant et fournissent aux amoureux du plein-air des installations accessibles en toute saison. Des attractions thématiques spectaculaires permettent aux jeunes et moins jeunes de vivre une expérience sensorielle globale, qu’il s’agisse des écosystèmes, de l’univers scientifique ou de l’espace. Et n’oubliez pas le Jardin botanique, de renommée mondiale, et son remarquable Insectarium.

Dynamique, moderne, mais respectueuse de son patrimoine architectural, Montréal combine avec succès l’ancien et le contemporain.

Auteurs et présentateurs
Dans le cas des exposés, le nom du présentateur est fourni en italiques. Dans le cas des affiches, le nom de l’auteur-présentateur est fourni en italiques. On a demandé à l’auteur-présentateur de se tenir à proximité de son affiche pendant le déjeuner et les pauses-café afin de répondre aux questions et de pouvoir discuter de son affiche.

Réunions de comité
Vous trouverez la liste complète des réunions de comité de l’ACO à la page 32, et celle des réunions de comité de l’AOA à la page 34.
Éducation médicale continue (ÉMC)

AOA – Cette activité est conforme aux secteurs et politiques essentiels de l’Accreditation Council for Continuing Medical Education (ACCME), en collaboration avec l’American Academy of Orthopaedic Surgeons (AAOS) et l’AOA. L’AAOS est autorisée par l’ACCME à fournir des cours d’ÉMC aux médecins.

L’AAOS a établi que la présente activité en direct vaut un maximum de 21,25 AMA PRA Category 1 Credits™ ( crédits de catégorie 1 de l’American Medical Association Physician’s Recognition Award). Les médecins doivent réclamer seulement les crédits correspondant à leur degré de participation.

ACO – Cette manifestation est une activité de formation collective agréée, en vertu de la section 1 de la Charpente des activités de développement professionnel continu dans le cadre du Programme de maintien du certificat du Collège royal des médecins et chirurgiens du Canada (CRMCC). Les participants recevront donc un crédit pour chaque heure de présence aux diverses activités au programme, jusqu’à concurrence de 18,0 crédits.

Divulgation

AOA – Chaque participant à la Réunion annuelle conjointe 2014 de l’AOA et de l’ACO doit divulguer si lui ou un membre de sa famille immédiate a des intérêts financiers ou une autre forme de relation avec une entreprise commerciale ou un établissement qui a directement ou indirectement trait avec le sujet de sa présentation. La divulgation du participant est précisée sur le site web, www.aoacoa2014.org, après son nom, de même que l’entreprise ou l’établissement qui a soutenu son travail. De plus, si le participant divulgue n’avoir aucun intérêt financier ou engagement, ces renseignements sont aussi fournis. L’AOA comme l’ACO estiment que de tels intérêts ou engagements n’affectent pas nécessairement l’objectivité d’un auteur ou la valeur de sa contribution à la Réunion annuelle conjointe 2014 de l’AOA et de l’ACO.

ACO – L’ACO est prestataire agréé du CRMCC. Par conséquent, la Réunion annuelle conjointe de l’AOA et de l’ACO, tenue à Montréal (Québec), du 17 au 21 juin 2014, est reconnue en vertu de la Section 1 du Programme de maintien du certificat du CRMCC. Pour cette raison, la manifestation doit satisfaire aux lignes directrices de l’Association médicale canadienne (AMC) en ce qui a trait aux relations entre les médecins et l’industrie.

Tous les auteurs et présentateurs doivent donc divulguer tout intérêt financier ou toute relation quelconque avec une entreprise commerciale qui a un rapport direct ou indirect avec le matériel scientifique ou éducatif présenté à la Réunion annuelle afin de veiller au respect des lignes directrices de l’AMC et aux exigences du CRMCC pour les activités de formation agréées. La deuxième diapositive de toute présentation doit comprendre la divulgation financière obligatoire du présentateur.

Voici les catégories de divulgation établies :

1. Un soutien à la recherche ou institutionnel
2. Un soutien non monétaire (comme de l’équipement ou des services), des honoraires de nature commerciale ou d’autres fonds n’ayant pas trait à la recherche (comme des déplacements payés)
3. Des redevances
4. Des actions ou des options d’achat d’actions
5. Une rémunération à titre de conseiller ou d’employé


Avertissement

Avertissement (membres de l’ACO seulement) – L’ACO n’est pas responsable des préjudices ou dommages pouvant être subis par un participant à la Réunion annuelle conjointe de l’AOA et de l’ACO, ni des réclamations pouvant découler de l’utilisation des techniques démontrées dans le cadre de ladite réunion, que ces réclamations soient soutenues par un médecin ou par toute autre personne.

Avertissement de la Food and Drug Administration (membres de l’AOA seulement) Certaines médicaments ou dispositifs médicaux présentés à la Réunion annuelle conjointe n’ont pas obtenu l’aval de la Food and Drug Administration (FDA) ou sont approuvés par celle-ci à des fins précises uniquement. La FDA estime qu’il relève du médecin d’établir si elle a autorisé chaque médicament ou dispositif médical qu’il souhaite employer dans sa pratique.

Dons
Si vous le souhaitez, vous pouvez faire un don à l’AOA en remplissant le formulaire à cet effet, en y joignant le montant et en déposant le tout dans la boîte de dons placée près de l’accueil de la Réunion annuelle conjointe de l’AOA et de l’ACO.

On peut aussi faire un don à la Fondation Canadienne d’Orthopédie en remplissant le formulaire à cet effet, puis en le déposant avec le montant au stand de la Fondation (stand 625), dans la salle d’exposition, pendant les heures d’exposition.

Salle d’exposition
La salle d’exposition est située à côté de la salle plénière, au niveau 2 du Palais des congrès de Montréal, pour plus de commodité. Voir la page 139 pour consulter la liste des exposants.
Information Générale

La réception des présidents de l’AOA et de l’ACO a lieu le mercredi soir, dans la salle d’exposition; tous les participants reçoivent une invitation. On offre également le dîner aux participants, dans la salle d’exposition, les jeudi et vendredi.

Heures d’exposition :

Le mercredi 18 juin, de 19 h à 21 h
Le jeudi 19 juin, de 9 h à 16 h
Le vendredi 20 juin, de 9 h à 16 h

Affiches

Toutes les affiches de la Réunion annuelle conjointe, de la Société de recherche orthopédique du Canada (SROC), du Council of Orthopaedic Residency Directors (CORD) de l’AOA, de l’Association canadienne des résidents en orthopédie (ACRO) et de l’OMeGA Medical Grants Association sont installées dans la salle d’exposition (salle 210CDGH), adjacente à la salle plénière. Veuillez vous joindre à nous le mercredi soir pour la réception des présidents, de même que les jeudi et vendredi pour un déjeuner continental, les pauses-café et le dîner. Les auteurs sont invités à rester à proximité de leur affiche pendant le déjeuner et les pauses-café.

La liste des précis retenus pour les affiches présentées à la Réunion annuelle conjointe, par la SROC, par le CORD de l’AOA, par l’ACRO et par l’OMeGA Medical Grants Association est accessible sur le microsite de la Réunion annuelle conjointe 2014 de l’AOA et de l’ACO. Pour accéder à celle-ci, utilisez l’application de la Réunion annuelle conjointe ou ouvrez une session à www.aoacoa2014.org.

Objectifs du programme

Les participants à la Réunion annuelle conjointe 2014 de l’AOA et de l’ACO discutent des controverses en orthopédie, qu’elles touchent l’exercice, la science, la déontologie, la formation, l’économie ou la société, et ce, tant dans un contexte formel que décontracté. Les orthopédistes approfondissent également leurs connaissances chirurgicales et scientifiques, en plus d’apprendre de nouvelles pratiques en vue d’améliorer les soins. De plus, les participants :

- révisent et évaluent les résultats des progrès cliniques dans le diagnostic et le traitement des maladies orthopédiques courantes dans les domaines de la traumatologie, de l’arthroplastie, du pied et de la cheville, des membres supérieur, du rachis, de la médecine sportive, de la pédiatrie et des tumeurs;
- accroissent leur compréhension des progrès de la recherche fondamentale dans le domaine de la physiopathologie et de la santé de l’appareil locomoteur et mettent à jour leurs connaissances. Ils appliquent ces connaissances aux problèmes cliniques courants et à l’amélioration des résultats pour les patients;
- établissent des stratégies qui tiennent également compte des avantages et des risques dans le traitement de maladies orthopédiques spécifiques et décrivent les résultats prévus.

Heures d’inscription

L’accueil de la Réunion annuelle conjointe est situé dans le foyer 210, devant la salle plénière :

Le mardi 17 juin, de 7 h à 17 h
Le mercredi 18 juin, de 6 h à 19 h 30
Le jeudi 19 juin, de 6 h à 17 h
Le vendredi 20 juin, de 6 h à 17 h
Le samedi 21 juin, de 6 h 30 à 11 h

Besoins spéciaux

Si vos invités ou vous-même avez des besoins spéciaux, veuillez en aviser le personnel de la Réunion annuelle conjointe de l’AOA et de l’ACO, à l’accueil. Voici quelques exemples de besoins spéciaux :

- Besoins alimentaires (végétarisme, alimentation casher ou restrictions alimentaires)
- Accessibilité en fauteuil roulant
- Autres besoins en matière d’accessibilité

Salle de prévisionnement

La salle de prévisionnement est dans la salle 512A. Tous les conférenciers de la Réunion annuelle conjointe et des manifestations afférentes doivent se présenter dans la salle de prévisionnement et télécharger leur présentation au moins 24 heures avant leur conférence. Les conférenciers qui téléchargent leur présentation à l’avance sont tout de même priés de passer par la salle de prévisionnement avant leur conférence.

Heures d’accès :

Le mardi 17 juin, de 6 h 30 à 17 h
Le mercredi 18 juin, de 6 h à 18 h 30
Le jeudi 19 juin, de 6 h à 17 h
Le vendredi 20 juin, de 6 h à 17 h 30
Le samedi 21 juin, de 6 h 30 à 12 h 15

DES QUESTIONS?

Pour obtenir des réponses ou de plus amples renseignements, présentez-vous à l’accueil, au foyer 210.

L’AOA et l’ACO sont autorisées à utiliser les photos liées à la Réunion annuelle conjointe 2014 et aux manifestations afférentes dans leurs documents de marketing, bulletins, programmes, site Web et autres publications. Si vous refusez que votre photo soit utilisée par l’AOA ou l’ACO, veuillez nous en aviser à meetings@aoassn.org ou meetings@canorth.org.
Social Events & Guest Program

Social Program

Presidents’ Welcome Reception

The Presidents’ Welcome Reception will take place on Wednesday from 7:00pm–9:00pm in the Exhibit Hall, located in 210D of the Palais des congrès de Montréal. All registered spouses and guests are invited to this event!

An Evening at le Cirque

Friday evening, all registrants and guests are invited to “An Evening at le Cirque.” Join your friends and colleagues at the Fairmont Queen Elizabeth’s Grand Ballroom for a magical evening of mingling, cocktails, dinner and circus entertainment. This casual evening is a great way to unwind and catch up with colleagues and friends from all over Canada and the US.

A limited number of tickets are available for purchase at the Registration Desk. Tickets must be purchased by Wednesday, June 18, by 7:30pm. Cost: $95 CAD per adult and $25 CAD per child (under 12 years of age).

Shuttle Service

Shuttle Service will be provided to/from Friday night’s event, “An evening at le Cirque,” (ticket required) which takes place at the Fairmont Hotel, as well as the Presidents’ Dinner (invitation only) on Thursday evening. Shuttle service is only offered for these two events.

Tour Program

If you have pre-purchased your tickets for any of the tours offered, they will be in your registration packet. There is a limited number of tickets available onsite for purchase for each tour, please see the AOA/COA Registration Desk to sign up for a tour.

City Bus Tour: Montréal Mixes Trendiness & Tradition

Thursday, June 19
9:00am–1:00pm
Cost: $55.00 per person

Foodie Walking Tour: Flavours and Aromas of Old Montréal

Thursday, June 19
1:30pm–4:00pm
Cost: $55.00 per person

Old Montréal Walk, Notre-Dame Basilica & Visit of the Pointe-à-Callière Museum

Friday, June 20
9:00am–12:30pm
Cost: $55.00 per person

Foodie Walking Tour: A Foodie’s Tour of Little Italy!

Friday, June 20
1:00pm–4:30pm
Cost: $59.00 per person (plus the cost of two metro tickets)

Spouse/Guest and Family Program

Please refer to the Social Program on the prior page.

The Spouse/Guest Hospitality Suite, located in the Westin Hotel in the Reporter, 3rd Floor.

Thursday, June 19 8:00am–11:00am
Friday, June 20 8:00am–11:00am
Saturday, June 21 8:00am–10:00am

On Thursday from 9:00am–10:00am, a representative from Tourism Montréal will be in the Hospitality Suite to advise guests on current museum exhibits, boutiques and stores, restaurants, and more. A Tourism Montréal representative will also be at the AOA/COA Registration Desk, located in the 210 Foyer of the Palais des congrès de Montréal, on Wednesday, Thursday, and Friday, from 10:00am–1:00pm.
<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Event Description</th>
<th>Location</th>
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<tbody>
<tr>
<td><strong>Wednesday, June 18 / Le mercredi 18 juin</strong></td>
<td>7:00am–9:00am</td>
<td>COA Executive Committee</td>
<td>512F</td>
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<tr>
<td></td>
<td>8:30am–12:00pm</td>
<td>Practice Management Committee</td>
<td>513E</td>
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<td></td>
<td>10:00am–12:00pm</td>
<td>Standards Committee</td>
<td>514B</td>
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<tr>
<td></td>
<td>10:30am–12:00pm</td>
<td>Continuing Professional Development (CPD)</td>
<td>513F</td>
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<tr>
<td></td>
<td>1:00pm–4:00pm</td>
<td>COA Board</td>
<td>513E</td>
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<tr>
<td><strong>Thursday, June 19 / Le jeudi 19 juin</strong></td>
<td>12:00pm–1:00pm</td>
<td>CORS Business Meeting</td>
<td>513C</td>
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<tr>
<td><strong>Friday, June 20 / Le vendredi 20 juin</strong></td>
<td>6:30am–7:30am</td>
<td>CORS Executive</td>
<td>512D</td>
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<tr>
<td></td>
<td>12:00pm–12:45pm</td>
<td>COA Business Meeting</td>
<td>511EF</td>
</tr>
<tr>
<td><strong>Friday, June 20 / Le vendredi 20 juin</strong></td>
<td>8:45am–10:45am</td>
<td>Canadian Pediatric Orthopaedic Group (CPOG) Meeting, Guest Speaker: Colin Moseley</td>
<td>513AB</td>
</tr>
<tr>
<td><strong>Saturday, June 21 / Le samedi 21 juin</strong></td>
<td>8:00am–12:00pm</td>
<td>COFAS General Session &amp; Business Meeting</td>
<td>Ramezay Room (8th Floor), Westin Hotel</td>
</tr>
</tbody>
</table>
The American Orthopaedic Association
Committee Meeting Schedule

**Tuesday, June 17, 2014**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event Description</th>
<th>Location</th>
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<tbody>
<tr>
<td>6:00pm–7:00pm</td>
<td>Officers’ Meeting • InterContinental Hotel</td>
<td>SAINTE-HÉLÈNE - 4th Floor</td>
</tr>
<tr>
<td>7:00pm–9:30pm</td>
<td>Corporate Advisory Round Table • InterContinental Hotel</td>
<td>Meeting: Saint-Gabriel - 4th Floor Dinner: Saint-Jean-Baptiste - 4th Floor</td>
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**Wednesday, June 18**

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<tr>
<th>Time</th>
<th>Event Description</th>
<th>Location</th>
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<tbody>
<tr>
<td>7:00am–9:00am</td>
<td>Finance Committee Meeting • 513F</td>
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<tr>
<td>9:00am–11:00am</td>
<td>Membership Committee Meeting • 514A</td>
<td></td>
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<tr>
<td>10:00am–1:00pm</td>
<td>Critical Issues Committee Meeting • 513B</td>
<td></td>
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<tr>
<td>1:00pm–4:30pm</td>
<td>2013–2014 AOA Executive Committee Meeting • 513B</td>
<td></td>
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<tr>
<td>7:45pm–9:45pm</td>
<td>Young Leaders Committee/Leadership Development Committee Combined Meeting • 513E</td>
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**Thursday, June 19**

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<thead>
<tr>
<th>Time</th>
<th>Event Description</th>
<th>Location</th>
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<tbody>
<tr>
<td>8:30am–10:30am</td>
<td>Own the Bone Steering Committee Meeting • 512C</td>
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</tr>
<tr>
<td>8:30am–10:30am</td>
<td>CORD Education Committee Meeting • 512D</td>
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</tr>
<tr>
<td>12:00pm–1:30pm</td>
<td>CORD Accreditation and Compliance Committee Meeting • 512D</td>
<td></td>
</tr>
<tr>
<td>12:00pm–2:00pm</td>
<td>Development Committee Meeting • 512C</td>
<td></td>
</tr>
<tr>
<td>2:00pm–4:00pm</td>
<td>CORD Governing Committee Meeting • 512D</td>
<td></td>
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<tr>
<td>4:00pm–5:30pm</td>
<td>Academic Leadership Committee Meeting • 512D</td>
<td></td>
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<tr>
<td>4:30pm–5:30pm</td>
<td>Own the Bone Corporate Update Meeting • 512GH</td>
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**Saturday, June 21**

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<thead>
<tr>
<th>Time</th>
<th>Event Description</th>
<th>Location</th>
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<tbody>
<tr>
<td>9:00am–10:00am</td>
<td>AOA-AAOS Leadership Meeting • 512C</td>
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<tr>
<td>10:00am–11:00am</td>
<td>AOA-ABOS-RRC Leadership Meeting • 512C</td>
<td></td>
</tr>
<tr>
<td>11:00am–12:00pm</td>
<td>2014–2015 AOA Executive Committee Meeting • 512D</td>
<td></td>
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</table>
The American Orthopaedic Association
2013-2014 Executive Committee

Scott D. Boden
President

J. Lawrence Marsh
First President-Elect

Kevin P. Black
Second President-Elect

William N. Levine
Secretary

Sanford E. Emery
Treasurer

Rick W. Wright
Treasurer-Elect

Terrance D. Peabody
First Past President

Douglas R. Dirschl
Second Past President

Terry R. Light
Historian

Leesa M. Galatz
Delegate-at-Large

Lisa A. Taitsman
Delegate-At-Large

James E. Carpenter
Academic Leadership Chair

Regis J. O’Keefe
Critical Issues Chair

Todd J. Albert
Development Chair

Jeffrey C. Wang
Fellowships Coordinating Committee Chair

Theodore W. Parsons, III
Leadership Development Chair

L. Andrew Koman
Membership Chair

Serena S. Hu
Program Chair

Khaled J. Saleh
Publications Chair

Dennis M. Murphy
Lay Delegate

Kristinolds Glavin
Executive Director

AOA Program Committee

Serena S. Hu
Chair

Regis J. O’Keefe

April D. Armstrong

Ann E. Van Heest

Scott D. Weiner

AOA Critical Issues Committee

Regis J. O’Keefe
Chair

April D. Armstrong

James E. Carpenter

Denis R. Clohisy

Nancy M. Cummings

G. Paul DeRosa

David M. Drvaric

Alan S. Hillbrand

Serena S. Hu

Kyle J. Jeray

J. Lawrence Marsh

Khaled J. Saleh

Andrew H. Schmidt

Vernon T. Tolo

Ann E. Van Heest

Bradley K. Weiner

AOA Academic Leadership Committee

James E. Carpenter
Chair

Wayne S. Berberian
Joseph Bernstein

Martin I. Boyer

Peter Chalmers

Jens R. Chapman

Vincent D. Pellegrini, Jr.

Julie Balch Samora
Bruce J. Sangeorzan

Jeffrey P. Schwab

Robert S. Sterling

Kimberly J. Templeton

Steven Michael Theiss

Terry L. Thompson
COA Executive / Comité de direction de l'ACO

Edward J. Harvey  
President/Président

Bas A. Masri  
President-Elect/Président élu

Robin Richards  
2nd President-elect/Deuxième président élu

Geoffrey Johnston  
Past President/Président sortant

CoA Staff / Personnel de l’ACO

Douglas C. Thomson  
Chief Executive Officer / Directeur

Cynthia Vezina  
Communications and Membership Services Manager / Directrice des communications et des services aux membres

Meghan Corbeil  
Meetings and Events Manager / Directrice des réunions et des événements

Dennis Jeanes  
Communications and Advocacy Manager / Directeur, Communications et relations gouvernementales

CORS Executive / Comité de direction de la SROC

Steven Boyd  
President/Président

John Antoniou  
Past President/Président sortant

Michael J. Dunbar  
Program Chair/Président, programme

COA Program Committee / Comité responsable du programme

Stefan Parent  
Program Co-Chair/Coprésident

Étienne Belzile  
Program Co-Chair/Coprésident

Eric Bohm  
Past Program Co-Chair/Prés. sortant, programme

Ted Tufescu  
Past Program Co-Chair/Prés. sortant, programme

Michael J. Dunbar  
CORS Program Chair/Président, programme (SROC)

Ruth Chaytor  
Foot and Ankle/Pied et cheville

Thomas Goetz  
Hand/Main

James P. McAuley  
Hip and Knee Reconstruction/Reconstruction hanche et genou

Local Arrangements Committee / Comité organisateur

Monika Volessky  
Local Arrangements Chair/Présidente, Comité organisateur

COA Volunteers / Bénévoles de l’ACO

Caroline Bernier, AB  
Dale Bristow, ON  
Murielle McCabe, ON  
Noel Baxter, ON  
Nadia Baxter, ON

COA Committees and Staff / Personnel de l’ACO

Emil H. Schemitsch  
2nd Past President/Deuxième président sortant

John Antoniou  
Secretary/Secrétaire

Peter B. MacDonald  
Treasurer/Tresorier

Janie Astephen-Wilson  
Secretary–Treasurer/Secrétaire-trésorière

Albert Yee  
Member at Large/Chargé de mission

Kishore Mulpuri  
Pediatrics/Pédiatrie

Henry Ahn  
Spine/Rachis

Laurie Hiemstra  
Sports/Sports

Brad Petrisor  
Trauma/Traumatologie

Peter Ferguson  
Tumor/Tumeurs

Darren S. Drosdowech  
Shoulder & Elbow/Epaule et coude

Peter Dryden  
General Orthopaedics/Orthopédie générale

John J. Murnaghan  
CPD Chair/Président, CPP
Geoffrey Molson will speak on his family’s history and ongoing contributions to the community in Montréal, Québec and Canada. The Molson family contributions represent some of the best examples of true total-community involvement. The corporate and resultant philanthropic efforts of the family have been important to Montréal and Canada over the last three centuries. They built Canada’s largest brewery, financed its first steamboat line, and helped build the first TransCanada railroad. The family provided McGill University’s first endowed chair. They have since donated to or helped build multiple education sites across Québec, including buildings at McGill University, Bishop’s University, Concordia University, and Université Laval.

Mr. Molson is one of three brothers, and represents the seventh Molson generation to take up the serious responsibility of representing the family in the community. He is currently the owner, president, and chief executive officer for the Montréal Canadiens hockey team, evenko, and the Centre Bell. The Montréal Canadiens were founded in 1909; it is the NHL’s oldest and most successful franchise, with 24 Stanley Cups in its 104-year history. He is also a member of the board of directors of Molson Coors Brewing Company, one of the world’s largest breweries, with operations in over 30 countries.

Mr. Molson continues to give back to his community in a big way. In addition to his involvement with the Molson Family Foundation to support philanthropic initiatives across Canada, he continues to serve on the board of the St. Mary’s Hospital Foundation. He also serves on the board of the Montreal Canadiens’ Children Foundation.

About Howard H. Steel, MD

AOA Member and former Vice President, Howard H. Steel, MD held the position of Chief Surgeon at Shriners Hospital and Professor of Orthopaedics at Temple University Medical Center. There he established the first spinal cord injury center designed specifically for children. A life-long Renaissance Man, Dr. Steel’s interests and achievements go far beyond the orthopedic arena, including art, wine, music, and sports of all kinds.

In 1981, a group of his grateful adult patients founded The Howard H. Steel, MD Orthopaedic Foundation. The Foundation funds lectureships on any subject except for orthopaedics or medicine for eight national and international orthopaedic organizations, including the AOA.
Dr. Rorabeck joined the Royal College of Physicians and Surgeons of Canada as its 42nd President in February 2013. Previously, he served on several Royal College committees, including Education (Vice President), Corporate Affairs, Governance and Royal College Canada International. He has served as President of the Canadian Orthopaedic Research Society, the Canadian Orthopaedic Foundation, and the Canadian Orthopaedic Association.

He has been named Officer of the Order of Canada. Dr. Rorabeck is also a member of a number of public sector boards, including the Stratford Shakespearian Festival and the Canadian Medical Hall of Fame.

Dr. Rorabeck and his wife, Linda, have three married children, and seven grandchildren.

Conférencier principal de la Réunion conjointe 2014

Cecil H. Rorabeck, OC, MD, FRCSC

La conférence principale de la Réunion conjointe 2014 est donnée par le Dr. Cecil H. Rorabeck, OC, MD, FRCSC, qui est le 42ème président du Collège royal des médecins et chirurgiens du Canada. Il a précédemment siégé au sein de plusieurs comités de l’organisme, dont ceux de l’éducation (vice-présidence), des services intégrés et de la gouvernance, ainsi que de Collège royal Canada International. Il a occupé la présidence de la Société de recherche orthopédique du Canada (SROC), de la Fondation Canadienne d’Orthopédie et de l’Association Canadienne d’Orthopédie (ACO).

Le Dr. Rorabeck a reçu l’Ordre du Canada. Il siège au sein de certains conseils d’administration du secteur public, y compris ceux de Festival Shakespeare de Stratford et du Temple de la renommée médicale canadienne.

Le Dr. Rorabeck et son épouse, Linda, ont trois enfants et sept petits-enfants.
in Public Policy in 2012, received the University of Calgary Isaak Walton Killam “Research Leader Prize” for 2012, and in 2013 he was awarded the Queen Elizabeth II Diamond Jubilee Medal, through The Arthritis Society, and became a member of the Order of the University of Calgary. Previously, Dr. Frank has held the positions of President of the Canadian Orthopaedic Research Society, the Canadian Orthopaedic Foundation, and the Canadian Orthopaedic Association.

Dr. Frank was selected as this year’s Presidential Guest Speaker due to his extensive experience with health systems, understanding of public policy, depth and breadth of research, and knowledge of technology collaborations. His lecture will relate to and follow the Symposium on Orthopaedic Workforce Needs: Challenges in a Changing Environment.
Boaz Keysar, PhD, is a Professor of Psychology and Chair of the Cognition program at the University of Chicago. He received his PhD from Princeton University in 1989 and was a visiting scholar at Stanford University before joining the faculty at the University of Chicago in 1991.

Professor Keysar's research centers on the psychology of communication, investigating how people communicate, and why they miscommunicate. His research has been published in the major scientific journals such as *Psychological Review*, *Psychological Science*, *Journal of Personality and Social Psychology*, *Organizational Behavior and Human Decision Processes*, and *Journal of Experimental Psychology*. Professor Keysar's research has also received substantial interest in the media, both domestic and international press. Reports about Keysar's research have appeared in media outlets such as the *Science Magazine*, *Los Angeles Times*, *Chicago Tribune*, *San Francisco Chronicle*, *National Post-Canada*, *Der Spiegel–Germany*, *China Daily–China*, *Smart Money–Russia*, *Science Daily*, *LiveScience.com*, *MSNBC*, and others.

Professor Keysar's honors and awards include the prestigious John Simon Guggenheim Memorial Foundation Fellowship and a Fulbright Scholarship. He has received over 1.6 million dollars in federal research grants from the National Institute of Health and the National Science Foundation to support his internationally renowned research on communication.

Professor Keysar is a charter member the Association for Psychological Science, as well as a member of several other professional associations such as the Psychonomic Society and the Society for Judgment and Decision Making. He has also served on several editorial boards and grant reviews.

Though the majority of Professor Keysar’s effort is devoted to research and teaching, he has also consulted with corporations in the legal industry and the transportation industry. He is routinely invited to present his work in universities and conferences around the world.


Parmi les distinctions reçues par M. Keysar, mentionnons les prestigieuses bourses remises par la John Simon Guggenheim Memorial Foundation et le Fulbright U.S. Scholar Program. Il a en outre reçu plus de 1.6 million de dollars en subventions de recherche fédérales des National Institutes of Health (NIH) et de la National Science Foundation (NSF) pour appuyer ses travaux de renommée mondiale sur les communications.

M. Keysar est membre fondateur de l’Association for Psychological Science, ainsi que membre de plusieurs autres associations professionnelles, telles que la Psychonomic Society et la Society for Judgment and Decision Making. Il a aussi fait partie de plusieurs équipes éditoriales et comités d’examen des candidatures à des subventions.

Bien que la majorité des efforts de M. Keysar portent sur la recherche et l’enseignement, il a aussi été consultant auprès de diverses firmes juridiques et sociétés de transport. Il est régulièrement invité à présenter ses travaux dans des universités et congrès partout dans le monde.
J. Lawrence Marsh, MD
University of Iowa
Friday, June 20, 2014, 12:00pm–12:45pm
Room 210B, Level 2, Palais des congrès de Montréal

Tipping Points in Surgical Education

J. Lawrence Marsh, MD is a tenured professor in the Department of Orthopaedic Surgery at the University of Iowa Hospitals and Clinics and is the Interim Department Executive Officer. He is the Carroll B. Larson Chair and serves as the Program Director of the Orthopaedic Residency Training Program. He received his BA from Colgate University, his medical degree from Upstate Medical Center in Syracuse New York, and trained in orthopaedic surgery at Boston University. After the completion of his training, he served for two years as University Lecturer in orthopaedic surgery at Oxford University in Oxford, England.

Dr. Marsh’s clinical practice is devoted to orthopaedic trauma and adult reconstruction and he has developed techniques of minimally invasive articular fracture surgery. His research has focused on articular fractures and techniques of image analysis to assess the mechanical factors leading to post traumatic osteoarthritis. He has also been instrumental in initiatives that have led to new requirements for laboratory-based surgical skills training for orthopaedic residents, and his research in this area has led to new skills assessments and validated skills training techniques. His research has been funded by the NIH, OTA, Arthritis Foundation, AO, and by NBME. He and his co-authors were recipients of the 2011 OREF Clinical Research Award for their work on Post-Traumatic Osteoarthritis.

Dr. Marsh currently serves as the Chair of the Residency Review Committee for Orthopaedic Surgery and is a member of the ACGME’s Council of Review Committee Chairs. He is a Director for the American Board of Orthopaedic Surgery and Chair of the Oral Examination Committee. He is a member of the National Board of Medical Examiners and is the incoming President of the Mid-American Orthopaedic Association. He has served the AOA as an Austrian Swiss German (ASG) Traveling Fellow, Chair of the Fellowship Coordinating Committee, a member of the ASG Traveling Fellowship Committee, the CORD Assessment Tools Subcommittee, and the Academic Leadership Committee.

Bas A. Masri, MD, FRCSC
University of British Columbia
Thursday, June 19, 2014, 10:45am–11:45am
Room 511EF, Level 5, Palais des congrès de Montréal

The only Constant is change

Dr. Masri was born in Beirut, Lebanon on January 14, 1965. He attended elementary school and high school in Beirut. In 1981, he immigrated to Canada because of the conflicts in that country. He started university at the University of British Columbia in September 1981. He graduated with honors with a BSc in Chemistry in 1985. Prior to graduating from the Department of Chemistry, he started his medical training at UBC in the fall of 1984. He graduated with a Doctor of Medicine degree in June 1988.

He then moved to Edmonton, Alberta, where he worked as a rotating intern at the Grey Nuns Hospital between July 1988 and June 1989. He then returned to Vancouver and started the orthopaedic surgery residency program at UBC. He graduated from that program in June of 1994, and became a fellow of the Royal College of Physicians and Surgeons of Canada in November 1994.

Following graduation from residency, he completed a fellowship in Adult Reconstructive Orthopaedics and Musculoskeletal Oncology at UBC until December 31, 1994. He then moved to New York City and completed a fellowship in Adult Reconstructive Orthopaedics at the Hospital for Special Surgery between January 1 and July 31, 1995.

He immediately returned to Vancouver to start as a Clinical Instructor at the University of British Columbia and as a hip and knee reconstruction surgeon at VGH as well as a musculoskeletal oncologist at both VGH and the BC Cancer Agency. He then progressed through the ranks and became Head of the Division of Reconstructive Orthopaedics at VGH and UBC Hospitals, and Head of the Division of Lower Limb Reconstruction and Oncology at UBC. His current academic rank is that of Full Professor at UBC. He is the Head of the Department of Orthopaedics at the University of British Columbia and VGH and UBC Hospitals.

Dr. Masri has been involved in multiple research projects leading to numerous presentations and publications. At last count, he has had 283 invited presentations, 233 scientific presentation, 184 peer-reviewed published articles, and 47 book chapters. He has been involved in the training of 138 post-graduate trainees, including fellows, graduate students and post-doctoral fellows, in addition to many more residents. Dr. Masri is currently Surgeon-in-Chief of VGH and UBC Hospitals and the Medical Director of the UBC Centre for Surgical Innovation. He has also served on many local, regional and national committees related to academic and administrative issues.

He is a member of a number of prestigious scholarly societies (by invitation only) including the Hip Society, the Knee Society and the International Hip Society. In addition, he is a member of many other societies.
Conférencier principal de la Réunion conjointe 2014

Discours du président élu de l’ACO

Bas A. Masri, MD, FRCSC
Université de la Colombie Britannique
Le jeudi 19 juin 2014 • 10h45 à 11h45
Salle 511EF, 5e étage
Palais des congrès de Montréal

La seule constante dans la vie est le changement


Il retourne tout de suite à Vancouver, où il commence à travailler comme enseignant clinique à l’Université de la Colombie-Britannique et orthopédiste spécialisé en reconstruction du genou et de la hanche, à l’hôpital général de Vancouver, de même qu’oncologue spécialisé dans le traitement de l’appareil locomoteur au même hôpital et pour la BC Cancer Agency.

Au fil des ans, il gravit les échelons et devient chef du service de reconstruction orthopédique à l’hôpital général de Vancouver et à l’hôpital de l’Université de la Colombie-Britannique, ainsi que chef des services de reconstruction des membres inférieurs et de l’oncologie à l’Université de la Colombie-Britannique. Il est actuellement professeur titulaire à l’Université de la Colombie-Britannique.

Il est également chef du département d’orthopédie à l’Université de la Colombie-Britannique et chef du service d’orthopédie à l’hôpital général de Vancouver et à l’hôpital de l’Université de la Colombie-Britannique.

Le Dr Masri participe à divers projets de recherche qui se traduisent par nombre de présentations et de publications. À ce jour, il a à son actif 283 présentations sur invitation, 233 présentations scientifiques, 184 articles revus par les pairs et 47 chapitres.

En outre, il prend part à la formation de 138 étudiants des programmes d’études supérieures, dont des boursiers, des étudiants aux cycles supérieurs et des boursiers de recherches postdoctorales, en plus de nombre de résidents.

Le Dr Masri est chirurgien en chef à l’hôpital général de Vancouver et à l’hôpital de l’Université de la Colombie-Britannique, de même que directeur médical du Centre for Surgical Innovation de l’hôpital universitaire. Il est aussi membre de nombreux comités locaux, régionaux et nationaux sur diverses questions en matière de recherche et d’administration. Il assurera la présidence de l’Association Canadienne d’Orthopédie (ACO) en 2014-2015.

Enfin, il est membre de diverses sociétés d’érudits prestigieuses accessibles sur invitation seulement, dont The Hip Society, The Knee Society et The International Hip Society, et de bien d’autres sociétés.
2014 Combined Meeting of The American Orthopaedic Association and The Canadian Orthopaedic Association

June 18-21, 2014

The Palais des congrès de Montréal
## 2014 AOA/COA Combined Meeting Agenda

**Tuesday, June 17 / Le mardi 17 juin**

<table>
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<tr>
<td>6:30am–5:30pm</td>
<td><strong>Speaker Ready Room Open</strong> • 512A</td>
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<tr>
<td>7:00am–5:00pm</td>
<td>Registration Open • 210 Foyer</td>
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<tr>
<td>6:00pm–7:00pm</td>
<td>AOA Officers’ Meeting • InterContinental Hotel - Sainte-Helene - 4th Floor</td>
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<td>7:00pm–9:30pm</td>
<td>AOA Corporate Advisory Roundtable • InterContinental Hotel – Saint-Gabriel and Saint Jean Baptiste - 4th Floor</td>
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**Wednesday, June 18 / Le mercredi 18 juin**

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<tr>
<td>6:00am–7:30pm</td>
<td>Registration Open • 210 Foyer</td>
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<tr>
<td>6:30am–6:30pm</td>
<td>Speaker Ready Room Open • 512A</td>
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<tr>
<td>7:00am–9:00am</td>
<td>AOA Finance Committee Meeting • 513F</td>
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<tr>
<td>7:00am–9:00am</td>
<td>COA Executive Committee • 512F</td>
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<tr>
<td>8:30am–12:00pm</td>
<td>COA Practice Management Committee • 513E</td>
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<tr>
<td>9:00am–11:00am</td>
<td>AOA Membership Committee Meeting • 514A</td>
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<tr>
<td>10:00am–1:00pm</td>
<td>AOA Critical Issues Committee Meeting • 513B</td>
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<td>10:00am–12:00pm</td>
<td>COA Standards Committee • 514B</td>
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<tr>
<td>10:00am–12:00pm</td>
<td>COA Committee for Professional Development (CPD) • 513F</td>
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<tr>
<td>1:00pm–4:00pm</td>
<td>COA Board Meeting • 513E</td>
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<tr>
<td>1:00pm–4:30pm</td>
<td>AOA 2013-14 Executive Committee Meeting • 513B</td>
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<tr>
<td>5:30pm–7:00pm</td>
<td>Opening Ceremony • 210AB</td>
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<tr>
<td>7:00pm–9:00pm</td>
<td>Presidents’ Welcome Reception • Exhibit Hall • 210D</td>
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<td>7:45pm–9:45pm</td>
<td>AOA Young Leaders Committee/Leadership Development Committee Combined Meeting • 513E</td>
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**Thursday, June 19 / Le jeudi 19 juin**

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<th>Time</th>
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<td>6:00am–5:00pm</td>
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<tr>
<td>6:30am–5:00pm</td>
<td>Speaker Ready Room Open • 512A</td>
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**Department Leadership Forum I: Graduate Medical Education: What Do Residents and Fellows REALLY Cost? • 511E**

**Moderator:** Kimberly J. Templeton, MD; Kansas City, KS

**Breakfast/Poster Viewing • Exhibit Hall 210D**

**ICL 01: Current Controversies in Management of Rotator Cuff Tears • 510A**

**Co-Moderators:**
Wayne Z. Burkhead, Jr., MD; Dallas, TX
Ryan T. Bicknell, MD, MSc, FRCSC; Kingston, ON

**Objectives:**

1. Understand that all rotator cuff tears are not alike nor are the patients who present with them. Be able to identify which patients would benefit from, and have a reasonable chance of success with operative care.

2. Gain an understanding of current techniques in performing rotator cuff repair, including partial tears, small and large full-thickness tears, and subscapularis tears.

3. Gain an understanding of indications and techniques for treatment of an irreparable cuff tear, including debridement, partial repair, tendon transfers, arthroplasty and nerve release.

4. Gain an understanding of new/emerging trends in biologic and non-biologic methods of tissue augmentation, including tendon patches, PRP and other biologics.

**Panelists:**
Ofer Levy, MD; Reading, England
Martin J. Bouljane, MD, FRCSI; Edmonton, AB
Robert Tashjian, MD; Salt Lake City, UT
David Dines, MD; New York, NY

**ICL 02: The Benefits of Early Intervention and Emergent Therapies for Traumatic Spinal Cord Injury • 513AB**

**Moderator:** Jean-Marc Mac Thiong, MD; Montréal, QC

**Panelists:**
Brian K. Kwon, MD; Vancouver, BC
Jefferson R. Wilson, MD; Toronto, ON
Stefan Parent, MD, PhD; Montréal, QC
Objectives:
1. Review the epidemiology, pathophysiology, and prognosis of traumatic spinal cord injury.
2. Discuss the benefits of early transfer to a specialized spinal cord injury center for surgical treatment.
3. Review the guidelines for early acute management of acute traumatic spinal cord injury.
4. Discuss the emergent therapies for acute traumatic spinal cord injury.

7:15am–8:30am

ICL 03: Osteoporotic Fractures in the Elderly: Optimizing Surgical Management • 515
Moderator: Aaron Nauth, MD, FRCS; Toronto, ON
Panelists: Emil H. Schemitsch, MD, FRCS; Toronto, ON
Michael D. McKee, MD, FRCS; Toronto, ON
Hans Kreder, MD, MPH, FRSC-SB; Toronto, ON
Markku Nousiainen, MD, BA (Hons), MS, MEd, FRCS; Toronto, ON

Objectives:
1. Provide an evidence-based review of the surgical management of osteoporotic fractures in the elderly.
2. Review surgical techniques and implant choices for optimizing fixation in common osteoporotic fractures.
3. Provide attendees with important strategies for optimizing patient outcomes in the management of elderly patients who require surgical management of their fractures.

7:15am–8:30am

ICL 04: Dealing With Complications After Total Hip Replacement • 514
Moderator: Paul E. Beaule, MD; Ottawa, ON
Panelists: John C. Cichisny, MD; St. Louis, MO
John J. Callaghan, MD; Iowa City, IA
Donald S. Garbuz, MD, MHSc; Vancouver, BC

Objectives:
1. Review current standards of practice to minimize risks of most common complications.
2. Provide treatment algorithms for infection, instability, and peri-prosthetic fracture.

8:00am–11:00am

8:30am–10:30am

8:30am–10:30am

8:45am–10:15am

3. Gain a better understanding of surgical techniques and implant design to prevent and treat complications after total hip replacement.

Spouse/Guest Hospitality Suite • Westin Hotel – Reporter Lounge - 3rd Floor
AOA Own the Bone Steering Committee Meeting • 512C
AOA CORD Education Committee Meeting • 512D
Symposium 1: Whoever Holds the Data Holds the Power: What Should Each of Us Be Collecting and Monitoring? • 210AB
Moderator: Mohit Bhandari, MD, PhD, FRCS
McMaster University, Hamilton, ON
Panelists: David Ayers, MD
UMASS Memorial Health Care Arthritis & Joint Replacement Center, Worcester, MA
Neal Shonnard, MD
Rainier Orthopedic Institute, Puyallup, WA
James Wright, MD
Hospital for Sick Children, Toronto, ON
Outcomes data, administrative and claims data, quality data, registries...what does it all mean? Biomedical Informatics is, “the field that is concerned with the optimal use of information, often aided by the use of technology and people, to improve individual health, health care, public health, and biomedical research.” Simply put, we need to use data to track outcomes, enhance provider/patient communications, and encourage patient self-care activities. Key questions to the goal of biomedical informatics remain: What should we be collecting and how can we use it to help us improve patient care in a way that really matters? This symposium will share approaches to collecting and using data toward improvements in health care delivery.
9:00am–4:00pm | Exhibit Hall Open • 210D
10:15am–10:45am | Coffee Break in Exhibit Hall • 210D
10:45am–11:45am | AOA Business Meeting • 210AB
10:45am–11:45am | J. Édouard Samson Award: Brian K. Kwon, MD, FRSC

Bench to Bedside and Back: Translational Research in Acute Spinal Cord Injury

COA President-Elect Address and Transfer of Office:
Bas A. Masri, MD, FRSC
The Only Constant is Change • 511EF

11:45am–1:00pm | Exhibits with Complimentary Lunch • 210D
12:00pm–1:30pm | AOA CORD Accreditation and Compliance Committee Meeting • 512D
12:00pm–2:00pm | AOA Development Committee Meeting • 512C
1:00pm–2:30pm | AOA/COA Paper Session: Adult Reconstruction

Hip 1 • 514

Moderators: James P. Waddell, MD, FRSC, Toronto, ON; Bas A. Masri, MD, FRSC, Vancouver, BC

ARH01 1:00pm
Time to Surgery for Definitive Fixation of Hip Fractures: A Look at Outcomes Based Upon Delay
Hasham Alvi, MD, Chicago, IL; Rachel Mednick, MD, Chicago, IL; Varun Krishnan, BA, Chicago, IL; Mary Kwasyw, ScD, Chicago, IL; David Manning, MD, Chicago, IL

ARH02 1:06pm
Mortality Rates in Hip Fracture Patients Over the Past 31 Years—A Systematic Review of Randomized Control Trials
Simran Mundi, BSc (Cand), Hamilton, ON; Bharadwaj Pindiprolu, BSc (Cand), Hamilton, ON; Nicole Simunovic, MSc, Hamilton, ON; Mohit Bhandari, MD, FRSC, PhD, Hamilton, ON; Kim Madden, BSc, Hamilton, ON

ARH04 1:12pm
The Risk of Hip Arthroplasty After Open Reduction Internal Fixation of a Fracture of the Acetabulum: A Matched Cohort Study
Patrick Henry, MD, MSc, PhD Candidate, Portland, ME; David Wasserstein, MD, MPH, FRSC, Toronto, ON; Sam Park, MD, Toronto, ON; Michael Paterson, MSc, Toronto, ON; Hans Kreder, MD, MPH, FRSC-SP, Toronto, ON; Richard Jenkinson, MD, MSc, FRSC, Toronto, ON

ARH05 1:36pm
A Systematic Review of the Influence of Patient Factors On Patient-Reported Outcomes Following THA
Michael Zywiel, MD, Toronto, ON; Marvilyn Palaganas, MS, Toronto, ON; Viji Venkataramanan, MA, Toronto, ON; Aileen Davis, PhD, Toronto, ON

ARH06 1:42pm
Moving Towards Barcoding Standards: Experiences From the Canadian Joint Replacement Registry (CJRR)
Tammy Anderson, BSc, MSc, Toronto, ON; Nicole de Guia, MHS, Toronto, ON; Liz Koen, BSCh, Toronto, ON; Alina Dragan, MSc, Toronto, ON; Nicole Golestani, BSc, Toronto, ON; Eric Bohm, MD, BEng, MSc, FRSC, Winnipeg, MB; Michael Dunbar, MD, PhD, Halifax, NS; Greg Webster, MSc, Toronto, ON

ARH07 1:48pm
Hip Arthroscopy in Patients Less Than 25 Years of Age: Analysis of Outcomes and Indications for Surgery
Gillian Bayley, MD, BSc, Ottawa, ON; Gillian Parker, BS, Ottawa, ON; Paul Beaulé, MD, Ottawa, ON

1:54pm | Discussion

ARH08 2:03pm
The Biomechanical Properties of Cartilage From Cam-Type Femoroacetabular Impingement Deformities is Consistent With Osteoarthritis
Andrew Speirs, PhD, Ottawa, ON; Paul Beaulé, MD, Ottawa, ON; Stephen Ferguson, PhD, Zurich, Switzerland; Hanspeter Frei, PhD, Ottawa, ON

ARH09 2:09pm
Influence of Capsular Repair Versus Unrepaired Capsulotomy on 2-Year Clinical Outcomes Following Arthroscopic Hip Preservation Surgery
Benjamin Domb, MD, Westmont, IL; Chris Stake, MD, Rochester, NY; Tian Chen, PhD, Rochester, NY; Brian Giordano, MD, Rochester, NY

ARH10 2:15pm
Cam Lesions of Hip: A Static or Dynamic Deformity?
Paul Beaulé, MD, FRSC, Ottawa, ON; Vickas Khanna, MD, Ottawa, ON; Kawan Rakhra, MD, FRCC, Ottawa, ON

1:24pm | Discussion
2:21pm  Discussion

1:00pm–2:30pm  AOA/COA Paper Session: Adult Knee Reconstruction • 511E

Moderators: James P McAuley, MD, FRCS, London, ON; Adolph Lombardi, Jr., MD, FACS, New Albany, OH; Mark Wright, FRACS, NZOA President

ARK01 1:00pm
The Influence of Comorbidities on Hospital Costs and Length of Stay Following Total Knee Arthroplasty
Andrew Pugely, MD, Iowa City, IA; Yubo Gao, PhD, Iowa City, IA; Christopher Martin, MD, Iowa City, IA; John Callaghan, MD, Iowa City, IA

ARK02 1:06pm
Does Obesity Increase 90-Day Mortality of Patients Undergoing Primary Joint Arthroplasty?
Adolph Lombardi, Jr., MD, FACS, New Albany, OH; Keith Berend, MD, New Albany, OH; Jacob Willen, BS, New Albany, OH; Michael Morris, MD, New Albany, OH; Joanne Adams, BFA, CMI, New Albany, OH; Michael Sneller, MS, New Albany, OH

ARK03 1:12pm
The Impact of Gastric Bypass Surgery Compared to TKA on Knee Symptoms
Michael Zywiel, MD, Toronto, ON; Allan Okrainec, MD, Toronto, ON; Timothy Jackson, MD, Toronto, ON; Hafiz Kassam, MD, Toronto, ON; Anthony Perruccio, PhD, Toronto, ON; Todd Penner, MD, Toronto, ON; David Urbach, MD, Toronto, ON; Rajiv Gandhi, MD, Toronto, ON

ARK04 1:27pm
Outcomes in TKA Complicated by Infection: A Matched Cohort Design
Ivan Dzaja, MD, London, ON; Lyndsay Somerville, PhD, London, ON; James Howard, MD, MSc, FRCS, London, ON; James McAuley, MD, FRCS, London, ON; Richard McCalden, MD, FRCS, London, ON; Douglas Naudie, MD, FRCS, London, ON; Edward Vasarhelyi, MD, FRCS, London, ON; Steven MacDonald, MD, FRCS, London, ON; Brent Lanting, MD, FRCS, London, ON

ARK05 1:33pm
Prospective Comparison of Blood Culture Bottles and Conventional Swabs for Microbial Identification of Suspected Peri-prosthetic Joint Infection
Katherine MacCallum, BA, New York, NY; David Patrick, BS, New York, NY; Barthelemy Liabaud, MD, New York, NY; Venkata Jonna, MD, New York, NY; Jeffrey Geller, MD, New York, NY

ARK06 1:39pm
All-Cause In-Hospital Complications and Urinary Tract Infections Increased in Obese Patients Undergoing Total Knee Arthroplasty
Matthew Abdel, MD, Rochester, MN; Michael Ast, MD, New York, NY; Lily Lee, MS, New York, NY; Stephen Lyman, PhD, New York, NY; Alejandro Gonzalez Della Valle, MD, New York, NY

1:45pm  Discussion

ARK07 1:54pm
Surgical Correction of Flexion Instability Following Total Knee Arthroplasty
Matthew Abdel, MD, Rochester, MN; Luis Pulido, MD, Rochester, MN; Erik Severson, MD, Rochester, MN

ARK08 2:00pm
Patient-Specific Total Knees Demonstrate a Higher Manipulation Rate Compared to “Off-the-Shelf” Implants
Amar Ranawat, MD, New York, NY; Peter White, BA, New York, NY

ARK09 2:06pm
Radiostereometric Analysis of Cemented Versus Uncemented Tibial Components for Long Term Prediction of Implant Fixation
Elise Laende, MASc, Halifax, NS; Janie Astephen Wilson, PhD, Halifax, NS; Michael Dunbar, MD, PhD, Halifax, NS

ARK10 2:12pm
Polyethylene Wear in Mobile Bearing Unicompartmental Knee Replacement: A Retrieval Study
Kun Tao, MD, London, ON; James Howard, MD, MSc, FRCS, London, ON; Richard McCalden, MD, FRCS, London, ON; Matthew Teeter, PhD, London, ON; Douglas Naudie, MD, FRCS, London, ON

2:18pm  Discussion

1:00pm–2:30pm  AOA/COA Paper Session: Education • 515

Moderators: M. Lucas Murnaghan, MD, MEd, FRCS, Toronto, ON; April Armstrong MD, FRCS, Hershey, PA

ED01 1:00pm
Cost-Effective Surgical Simulation Training and Assessment Tool for Junior Level Resident Psychomotor Surgical Skills
Gregory Lopez, MD, Orange, CA; Rick Wright, MD, St. Louis, MO; David Martin, MD, Winston-Salem, NC; James Jung, BS, Orange, CA; Peter Hahn, MD, Orange, CA; Ranjan Gupta, MD, Orange, CA
2014 AOA/COA Combined Meeting Agenda
Thursday, June 19th (continued)

ED02 1:06pm
Motion Analysis Used To Objectively Measure Surgical Performance Metrics: A Longitudinal Study
Jeff Abildgaard, MD, Phoenix, AZ; Alex McLaren, MD, Phoenix, AZ; Ryan McLemore, PhD, Phoenix, AZ

ED03 1:12pm
Randomized Assessment of Systematic Arthroscopic Knot Tying Instruction
Ivan Wong, MD, FRCSC, Dip. Sports Med., Halifax, NS; Nathan Urquhart, MD, MSc, Halifax, NS; Matthew Denkers, MD, FRCSC, Hamilton, ON; Forough Farrokhyar, BSc (Pahlavi), MPhil (Aston), PhD (Wolverhampton), Hamilton, ON

ED04 1:27pm
Clinical Skills and Professionalism: Assessing Residents With Unannounced Standardized Patients (USPs)
Donna Phillips, MD, New York, NY; Joseph Zuckerman, MD, New York, NY; Sondra Zabar, MD, New York, NY; David Taormina, MS, New York, NY; Raj Karia, MPH, New York, NY; Kenneth Egol, MD, New York, NY

ED05 1:33pm
Determining the Confidence of Graduating Canadian Orthopaedic Residents: A Needs Assessment
Timothy Leroux, MD, MEd, Toronto, ON; Markku Nousiainen, MD, BA(Hons), MS, MEd, FRCSC, Toronto, ON; Brian Hodges, MD, MEd, PhD, FRCP, Toronto, ON; David Wasserstein, MD, MPH, FRCSC, Toronto, ON; Tricia Seifert, BA, MS, PhD, Toronto, ON; Douglas Archibald, BSc, MA, PhD, Ottawa, ON; Veronica Wadley, MD, BPHE, BEd, MA, FRCSC, Toronto, ON

ED06 1:39pm
Validation of a Distal Radius Fracture Closed Reduction and Casting Model
Ian Mayne, MD, Toronto, ON; Ryan Brydges, PhD, Toronto, ON; Lucas Murnaghan, MD, MEd, FRCSC, Toronto, ON

ED07 1:54pm
The Effect of a Night Float Call System on Resident Fatigue, Cognition, and Motor Function
Daniel Banaszek, MDCM, Kingston, ON; Justues Chang, BSc, Kingston, ON; Mark Harrison, MD, Kingston, ON

2014 AOA/COA Combined Meeting Agenda
Thursday, June 19th (continued)

ED08 2:00pm
Orthopaedic Resident Performance Before and After the 80-hour Work-Week
Jonathan Dickens, MD, West Point, NY; Scott Shawen, MD, Bethesda, MD; John Cody, MD, Bethesda, MD

ED09 2:06pm
The Impact of Resident Education on Short-Term Outcomes Following Orthopaedic Surgery
Andrew Pugely, MD, Iowa City, IA; J. Lawrence Marsh, MD, Iowa City, IA; Christopher Martin, MD, Iowa City, IA; John Callaghan, MD, Iowa City, IA; Sergio Mendoza-Lattes, MD, Iowa City, IA; Stuart Weinstein, MD, Iowa City, IA

ED10 2:12pm
The “July Effect” in Elective Spine Surgery: Analysis of the American College of Surgeons National Surgical Quality Improvement Program Database
Daniel Bohl, MPH, New Haven, CT; Michael Fu, BS, New Haven, CT; Jordan Gruskay, BA, New Haven, CT; Bryce Basques, BS, New Haven, CT; Nicholas Golinvaux, BA, New Haven, CT; Jonathan Grauer, MD, New Haven, CT

2:18pm
Discussion

1:00pm–2:30pm
AOA/COA Paper Session: Spine • 513AB
Moderators: Albert Yee, MD, MSc, FRCSC, DABOS, London, ON; Bradley Weiner, MD, Houston, TX

SP01 1:00pm
Fusion in Degenerative Spondylolisthesis: Comparison of Osteoconduct and Osteoinductive Bone Graft Materials
Sarah Cohnick, BS, Chicago, IL; Andrew Park, BS, Chicago, IL; Kasra Ahmadinia, MD, Cleveland, OH; Mark Kurdt, MD, Charlotte, NC; Howard An, MD, Chicago, IL; Joseph Lee, MD, Chicago, IL

SP02 1:06pm
A Comparison of Demographics and Adverse Event Rates for Lumbar Fusion Procedures Between the National Inpatient Sample and the National Surgical Quality Improvement Program Database
Daniel Bohl, MPH, New Haven, CT; Michael Fu, BS, New Haven, CT; Nicholas Golinvaux, BA, New Haven, CT; Bryce Basques, BS, New Haven, CT; Glenn Russo, MD, New Haven, CT; Jonathan Grauer, MD, New Haven, CT
SP03 1:12pm  
Posterolateral Versus Posterior Lumbar Interbody Fusion in the Degenerative Spinal Stenosis Patient  
Jennifer Urquhart, PhD, London, ON; Patricia Rosas-Arellano, MD, PhD, London, ON; Shauna Dehens, BSc, London, ON; Kevin Gurr, FRCS, London, ON; Fawaz Siddiqi, FRCS, London, ON; Stewart Bailey, MD, London, ON; Christopher Bailey, MD, London, ON

SP04 1:18pm  
Assessment of Nerve Root Decompression by MMG  
Jad Khalil, MD, Birmingham, MI; Stephen Bartol, MD, Detroit, MI; Edward Anderson, MD, San Antonio, TX

1:24pm  Discussion

SP05 1:36pm  
The Cost-Effectiveness of Minimally Invasive Spine Surgery in the Treatment of Adult Degenerative Scoliosis: A Comparison of Trans-Psoas and Open Techniques  
Herman Johal, MD, MPH, Calgary, AB; Eric Huang, MD, MSc, FRCS, Edmonton, AB; Ish Bains, MSc, CCRP, Calgary, AB; Roger Cho, MD, FRCS, Calgary, AB; Ken Thomas, MD, MHSc, FRCS, Calgary, AB; Ganesh Swamy, MD, FRCS, Calgary, AB

SP06 1:42pm  
Elevated Patient BMI Does Not Negatively Affect Self-Reported Outcomes of Thoracolumbar Surgery  
Edward Abraham, MD, Saint John, NB; Alana Green, BAH, Saint John, NB; Melissa McKeon, MSc, Saint John, NB; Neil Manson, MD, Saint John, NB

SP07 1:48pm  
Mortality Rates in Patients With Osteoporotic Compression Fractures Are Increased in Those Patients Taking Chronic Steroids  
Joshua Anderson, BS, Cleveland Heights, OH; Muhamed Faour, MD, Cleveland, OH; Uri Ahn, MD, Cleveland, OH; Nicholas Ahn, MD, Shaker Heights, OH

1:54pm  Discussion

SP08 2:03pm  
Pre-Operative Nutritional Status an Independent Predictor of Major Postoperative Complications Following Anterior Cervical Discectomy and Fusion  
Michael Fu, BS, New Haven, CT; Rafael Buerba, BA, New Haven, CT; Jonathan Grauer, MD, New Haven, CT; Daniel D. Bohl, MPH, New Haven, CT

SP09 2:09pm  
The Effect of Contents in the Esophagus During Surgery on Post-Operative Dysphagia Following Primary Anterior Cervical Discectomy and Fusion  

2:15pm  Discussion

1:00pm–2:30pm  AOA/COA Paper Session: Upper Extremity • 510A  
Moderators: Darren S. Drosdowech, MD, FRCSC, London, ON; Wayne Z. Burkhead, MD, Dallas, TX

UE01 1:00pm  
The Effect of Axillary Hair on Surgical Antisepsis Around the Shoulder  
Geoffrey Marecek, MD, Los Angeles, CA; Brian Weatherford, MD, Baltimore, MD; Eric Fuller, MD, Chicago, IL; Matthew Saltzman, MD, Chicago, IL

UE02 1:06pm  
Phase 2A Study of Safety/Efficacy of Collagenase Clostridium Histolyticum in Patients with Adhesive Capsulitis  
Edward Wang, MD, Stony Brook, NY; Marie Badalamente, PhD, Stony Brook, NY; Sean Mackenzie, MD, Rockford, IL; Michael Skyhar, MD, Encinitas, CA; Gregory Kaufman, MD, Chesterbrook, PA; Ted Smith, PhD, Chesterbrook, PA; Yan Ling, MD, PhD, Chesterbrook, PA; Diane McCaul, BSRT, MR, Chesterbrook, PA; James Tursi, MD, Chesterbrook, PA

UE03 1:12pm  
Tranexamic Acid Decreases Blood Loss Following Total Shoulder Arthroplasty  
Richard Friedman, MD, FRSC, Charleston, SC; Lisa Mock, CCRC, Charleston, SC; Bonnie Dumas, PhD, MBA, Charleston, SC

1:18pm  Discussion

UE04 1:27pm  
Predictors of Postoperative Range of Motion Following Reverse Total Shoulder Arthroplasty  
Richard Friedman, MD, FRSC, Charleston, SC; Thomas Wright, MD, Gainesville, FL; Pierre-Henri Flurin, MD, Bordeaux, Mérignac; Yann Marczuk, MD, Limoges, France; Joseph Zuckerman, MD, New York, NY

UE05 1:33pm  
Clinical Outcomes and Durability of Reverse Shoulder Arthroplasty with Modified L’Episcopo Transfer for Combined Loss of Active Elevation and External Rotation  
Walter McClelland, Jr., MD, Atlanta, GA; Adam Rumian, MD, Nice, Alpes-Maritimes; Yannick Roussane, MD, Nice, Alpes-Maritimes; Pascal Boileau, MD, Nice, Alpes-Maritimes
2:00pm–4:00pm

AOA CORD Governing Committee Meeting • 512D

Coffee Break in Exhibit Hall • 210D

Symposium 2: Risk Stratification for Orthopaedic Surgery Patients • 210AB
Moderator: Patricia D. Franklin, MD, MBA, MPH
UMass Medical School, Worcester, MA
Panelists: Sohail K. Mirza, MD, MPH
Dartmouth-Hitchcock Medical Center, Lebanon, NH
Courtland Lewis, MD
Orthopedic Associates of Hartford, Hartford, CT

Risk adjustment based on key clinical variables is important to assure fair public reporting and comparisons of outcome measures and reimbursement rates. Without appropriate risk adjustment, the most vulnerable patients (i.e., with severe deformities and medical co-morbid conditions) are likely to have difficulty accessing orthopaedic surgical care in the future. The intent of this symposium is to present the importance of developing an accurate risk stratification methodology in orthopaedic surgery. We will present how cardiac surgery has dealt with this issue of risk adjustment and public reporting, and discuss a roadmap to develop a risk adjustment index for orthopaedic surgery patients. We will present details regarding similarities and differences, and begin discussing specifics regarding the inpatient orthopaedic specialties. Discussion will include TJR surgery, spine surgery, and trauma surgery, and the potential role for orthopaedic societies to develop and promote risk stratification philosophy and methodology.

1:30pm–2:30pm

AOA Leadership Education Speaker
Small Change, Big Impact: The Science of Influence
Boaz Keysar, PhD; University of Chicago • 210AB

1:30pm–2:30pm

All meeting rooms are located in The Palais des congrès de Montréal unless noted differently.
Name badges must be worn to all functions and scientific presentations. Authors noted in italics are presenting authors.
ARH16 3:39pm
Does the Dual-Mobility Hip Prosthesis Produce Better Joint Mechanics During Squatting Tasks?
Rob Little, BKin, MSc candidate, Ottawa, ON; Sarah Reynolds, BKin, MSc, Ottawa, ON; Mario Lamontagne, PhD, Ottawa, ON; Paul Beaulé, MD, Ottawa, ON

3:45pm  Discussion

ARH17 3:54pm
Fixation and Wear with Contemporary Acetabular Components and Cross-Linked Polyethylene at 10 Years in Patients Age 50 and Under
John Callaghan, MD, Iowa City, IA; Justin Greiner, BS, Iowa City, IA; Nicholas Bedard, MD, Iowa City, IA; Steve Liu, MD, Iowa City, IA; Yubo Gao, PhD, Iowa City, IA; Douglas Pedersen, PhD, Iowa City, IA; Devon Goetz, MD, West Des Moines, IA

ARH18 4:00pm
A Randomized Controlled Trial Comparing Wear of Oxinium and Cobalt-Chrome on Standard and Cross-Linked Polyethylene
Zachary Morison, MSc, Toronto, ON; Sunit Patil, MD, FRCS, Toronto, ON; Habeeb Khan, MD, Toronto, ON; Earl Bogoch, MD, MSc, FRCS, Toronto, ON; Emil Schemitsch, MD, FRSC, Toronto, ON; James Waddell, MD, FRSCC, Toronto, ON

ARH19 4:06pm
Modular Trabecular Metal Augments for Acetabular Defects in Hip Arthroplasty: 7 to 11-Year Follow-Up
Michael Whitehouse, PhD, MB, ChB, MSc, Vancouver, BC; Nelson Greidanus, MD, MPH, Vancouver, BC; Bas A. Masri, MD, Vancouver, BC; Clive Duncan, MD, MSc, Vancouver, BC; Donald Garbuz, MD, MHSc, Vancouver, BC

ARH20 4:12pm
The Relationship Between Intra-Articular Hip Injections and Revision Following Total Hip Arthroplasty
Bheeshma Ravi, MD, PhD(c), Toronto, ON; Benign Escott, MBBS, MSc, FRSCC, Toronto, ON; David Wasserstein, MD, MPH, FRSC, Toronto, ON; Ruth Croxford, MSc, Toronto, ON; Simon Hollands, MSc, Toronto, ON; Hans Kreder, MD, MPH, FRSCC-SB, Toronto, ON; Gillian Hawker, MD, FRCCPC, Toronto, ON

4:18pm  Discussion
3:00pm–4:30pm  
AOA/COA Paper Session: Critical Issues • 515
Moderators: Markku Nousiainen, MD, MSc, FRCS, Toronto, ON; Regis O’Keefe, MD, PhD, Rochester, NY

CI01 3:00pm  
Access to Care for Adult Orthopaedic Patients with Medicaid Versus Private Insurance: Does Distance to Academic Teaching Hospitals and Population Density Influence Health Care Access in Orthopaedic Patients with Medicaid?
Erik Olsson, MD, Chapel Hill, NC; Ganesh Kamath, MD, Chapel Hill, NC; Brendan Patterson, MD, Chapel Hill, NC; Reid Draeger, MD, Chapel Hill, NC; Jeffrey Spang, MD, Chapel Hill, NC

CI02 3:06pm  
The Effect of an Intimate Partner Violence Informational Toolkit in a Hospital-Based Surgical Injury Clinic: A Quasi-Experimental Pilot Study
Kim Madden, BSc, Hamilton, ON; Katherine Rosenwasser, MD, New York, NY; Brad Petrisor, MD, MSc, FRCS, Hamilton, ON; Bill RisteVersusuki, MD, MSc, FRCS, Hamilton, ON; Krishan Rajaratnam, MD, FRCS, Hamilton, ON; Stefan Parent, MD, PhD, Montréal, QC; Clare Freeman, MSW, RSW, Hamilton, ON; Diana Tikasz, MSW, RSW, Hamilton, ON; Mohit Bhandari, MD, FRCS, PhD, Hamilton, ON

CI03 3:12pm  
A Ten-Year Analysis of the Research Funding Program of the Orthopaedic Trauma Association
Mitchell Bernstein, MD, FRCS, New York, NY; Nicholas Desy, MD, FRCS, Montréal, QC; Bogdan Matache, MD, Ottawa, ON; Todd McKinley, MD, Indianapolis, IN; Edward Harvey, MD, MSc, FRCS, Montréal, QC

CI04 3:24pm  
Comparative Outcomes and Cost-Utility Following Surgical Treatment of Focal Lumbar Spinal Stenosis Compared with Osteoarthritis of the Hip or Knee: Long-Term Change in Health-Related Quality of Life and Lifetime Incremental Cost-Utility
Y. Raja Rampersaud, MD, FRCS, Toronto, ON; Peggy Tso, BSc, MSc cand., Toronto, ON; Kevin Walker, MSc, Toronto, ON; Stephen Lewis, MD, MSc, FRCS, Toronto, ON; Rajiv Gandhi, MD, Toronto, ON; J. Roderick Davey, MD, FRCS, Toronto, ON; Nizar Mahomed, MD, ScD, FRCS, Toronto, ON; Peter Coyte, PhD, Toronto, ON

CI05 3:36pm  
Intellectual Property Policies and Royalty Distributions Among 23 Academic and Private Institutions
Roshan Shah, MD, JD, Chicago, IL; Paul Massey, MD, Philadelphia, PA; Gannon Sungar, DO, Philadelphia, PA; Samir Mehta, MD, Philadelphia, PA

CI06 3:42pm  
FDA Approved Orthopaedic Devices: A 20-Year Analysis
Seth Terramane, BA, MA, Boston, MA; Aldebarani Gonzalez, BA, Boston, MA; Christian Calliung, BS, Boston, MA; Gordon Bae, BA, Boston, MA; Austin Lee, BA, Boston, MA; Charles Day, MD, MBA, Boston, MA

CI07 3:48pm  
Positive Outcome Bias in the Total Joint Arthroplasty Literature: The Effect of the Department of Justice Agreements with Implant Manufacturers
Carola van Eck, MD, PhD, Pittsburgh, PA; Antonia Chen, MD, MBA, Philadelphia, PA; Adolph Yates, Jr., MD, Pittsburgh, PA

CI08 4:03pm  
Post-Consultation Predictors of Willingness to Undergo Orthopaedic Surgery
Y. Raja Rampersaud, MD, FRCS, Toronto, ON; Anthony Perruccio, PhD, Toronto, ON; Rajiv Gandhi, MD, Toronto, ON; UHN Arthritis Program, Toronto, ON

CI09 4:09pm  
Patients’ Perceptions of Their Surgeon Based on Attire
Sebastien Lalonde, MDCM, Kingston, ON; Gavin Wood, MD, FRCS, Kingston, ON; Stephanie Cudd, Ottawa, ON

C110 4:15pm  
Self-Promotion and Self-Inflation by Orthopaedic Surgeons on the Internet: Effects on a Naive Patient Population
John Ellar, MD, Rochester, NY; Stephen Mohney, BA, Rochester, NY

4:15pm  
Discussion

3:00pm–4:30pm  
AOA/COA Paper Session: Sports Knee • 513AB
Moderators: John Grant, PhD, MD, FRCS, Dip Sports Med, Saint John, NB; Scott Weiner MD, Akron, OH

SM01 3:00pm  
Microfracture-Based Cartilage Repair Elicits Only Limited Intra-Lesional Bony Overgrowth at 12 Months in a Multicenter RCT
William Stanish, MD, FRCS, Halifax, NS; Matthew Shive, PhD, Montréal, QC; Robert McCormack, MD, New Westminster, BC; Francisco Forriol, MD, Madrid, Spain; Nicholas Mohtadi, MD, MSc, FRCS, Calgary, AB; Stephane Pelet, MD, FRCS, Quebec City, QC; Jacques Desnoyers, MD, Greenfield Park, QC; Jose Tamez-Pena, PhD, Monterrey, Nuevo León; Saara Tottman, MD, Rochester, NY; Edward Schreyer, Rochester, NY; Alberto Restrepo, MD, Laval, QC
SM02 3:06pm
Platelet-Rich Plasma in the Management of Articular Cartilage Pathology: A Systematic Review
Andrew Dold, MD, Toronto, ON; Michael Zywiol, MD, Toronto, ON; Drew Taylor, PhD, Toronto, ON; Tim Dwyer, MBBS, FRCS, Toronto, ON; John Theodoropoulos, MD, MSC, FRCS, Toronto, ON

SM03 3:12pm
Knee Chondrolysis Associated With Bupivacaine/Epinephrine Infusion Through an Intra-Articular Pain Pump Catheter Post-Arthroscopic Anterior Cruciate Ligament Reconstruction
Jordan Buchko, MD, Saskatoon, SK; Jason Shin, MD, Saskatoon, SK; Tanner Gurney-Dunlop, MD, Saskatoon, SK; David Kim, MD, Saskatoon, SK

3:18pm Discussion

SM04 3:27pm
A Comparison of Two Different Anterolateral Reconstruction Techniques to Reduce Anterolateral Rotatory Instability of the Knee
Luke Spencer, FRCS, London, ON; Timothy Burkhart, PhD, London, ON; Alex Rezansoff, MD, London, ON; Michael Tran, MD, London, ON; Scott Caterine, BSc, London, ON; Robert Litchfield, MD, FRCS, London, ON; Cynthia Dunning, PhD, London, ON; Alan Getgood, MD, Mphil, FRCS(Tr&Orth), London, ON

SM05 3:33pm
Banff Patellar Instability Instrument - Responsiveness to Change up to 24 Months Post-Patellar Stabilization
Laurie Hiemstra, MD, PhD, Banff, AB; Sarah Kerslake, BPhy, Banff, AB; Mark Lafave, BPE, MSc, PhD, Calgary, AB; S. Mark Heard, MD, BPE, Banff, AB; Gregory Buchko, MD, BSc, Banff, AB

SM06 3:39pm
Structural Characterization of the Anterolateral Ligament—A Gross Anatomic, Histological, and Magnetic Resonance Imaging Study of the Anterolateral Knee
Scott Caterine, BSc, London, ON; Marjorie Johnson, PhD, London, ON; Martin Sandig, PhD, London, ON; Robert Litchfield, MD, FRCS, London, ON; Alan Getgood, MD, Mphil, FRCS(Tr&Orth), London, ON

3:45pm Discussion

SM07 3:54pm
Anterior Cruciate Ligament Reconstruction in Professional Hockey Players: Analysis of Outcomes and Return to Play
Robby Sikka, MD, Minneapolis, MN; Tyler Steubs, MD, Minneapolis, MN; Chad Kurtenbach, MD, Minneapolis, MN; Bradley Nelson, MD, Minneapolis, MN; Joel Boyd, MD, Minneapolis, MN

SM08 4:00pm
Outcomes of Revision Anterior Cruciate Ligament Reconstruction Using Stacked Biocomposite Screws to Fill Bony Voids
Peter Vezieridis, MD, Boston, MA; Lance LeClere, MD, San Diego, CA; Hasan Baydoun, MD, Kittanning, PA; Andrew Wall, BS, Boston, MA; Thomas Gill, IV, MD, Boston, MA; Kaitlin Carroll, BA, Boston, MA

SM09 4:06pm
Risk of Re-Injury at 2 Years: A Randomized Clinical Trial Comparing Three Graft Types for ACL Reconstruction
Nicholas Mohr, MD, MSc, FRCS, Calgary, AB; Rhamona Humphrey, BKin, CAT(C), Calgary, AB; Denise Chan, MBT, MSc, Calgary, AB; Elizabeth Paolucci, PhD, Calgary, AB

SM10 4:12pm
The Protective Effect of Kevlar® Socks Against Hockey Skate Blade Injuries: A Biomechanical Study
Aaron Nauth, MD, FRCSC, Toronto, ON; Mina Aziz, MD, MCHB, Toronto, ON; Matthew Tsuji, MD, Toronto, ON; Bruce Nicayenzi, BEng, Toronto, ON; Meghan Crookshank, PhD, Toronto, ON; Daniel Whelan, MD, FRCS, Toronto, ON; John Theodoropoulos, MD, MSC, FRCS, Toronto, ON; Radovan Zdero, PhD, CEng, MIMechE, Toronto, ON

4:18pm Discussion

3:00pm–4:30pm AOA/COA Paper Session: Trauma 1 • 510A
Moderators: G. Yves Laflamme, MD, FRCSC, Montréal, QC; Kyle Jeray, MD, Greenville, SC

TR01 3:00pm
Intramuscular Tissue Oxygenation Correlates with Muscle Viability in Treated and Untreated Compartment Syndrome
James Mok, MD, Chicago, IL; Heejae Kang, BS, San Francisco, CA; Erik Hansen, MD, San Francisco, CA; Xuhui Liu, PhD, San Francisco, CA; Mark Rollins, MD, PhD, San Francisco, CA; Utku Kandemir, MD, San Francisco, CA
TR02 3:06pm
CO-Releasing Molecule (CORM-3) Reduces Level of Allodynia in a Rat Model of Complex Regional Pain Syndrome Type-1 (CRPS-1)
Hussein Abdo, BSc, London, ON; Aurelia Bihari, MSc, London, ON; David Sanders, MD, FRSC, London, ON; Geoff Bellingham, MD, London, ON; Abdel Lawandy, MD, MSc, FRSC, London, ON

TR03 3:12pm
The Dose-Response Effect of the Mast Cell Stabilizer, Ketotifen Fumarate, on Post-Traumatic Joint Contractures
Herman Johal, MD, MPH, Calgary, AB; Prism Schneider, MD, PhD, FRSC, Calgary, AB; Kevin Hildebrand, MD, FRSC, Calgary, AB

3:18pm Discussion

TR04 3:27pm
Re-Operation Following Open Reduction Internal Fixation of Midshaft Clavicle Fractures in Ontario, Canada
Timothy Leroux, MD, MEd, Toronto, ON; David Wasserstein, MD, MPH, FRSC, Toronto, ON; Patrick Henry, MD, MSc, PhD Candidate, Portland, ME; Amir Khoshsbin, MD, Toronto, ON; Tim Dwyer, MBBS, FRSC, Toronto, ON; Darrell Ogilvie-Harris, MD, FRSC, Toronto, ON; Nizar Mahomed, MD, ScD, FRSC, Toronto, ON; Christian Veillette, MD, MSc, FRSC, Toronto, ON

TR05 3:33pm
Scoping Review Reveals Lack of Guidance for Rehabilitation of Proximal Humerus Fractures
Norma Macintyre, MSc, PhD, Hamilton, ON; Gerard Slobogean, MD, MPH, FRSC, Vancouver, BC; Lowell Kwan, BSc(Kin) (Cand), Hamilton, ON; Sheila Sprague, MSc, Hamilton, ON; Taryn Scott, MSW, Hamilton, ON; Herman Johal, MD, MPH, Calgary, AB; Kelly Lefaivre, MD, BScH, MSc (Epid), FRSC, Vancouver, BC; Pierre Guy, MD, MBA, Vancouver, BC; Peter Cripton, BEng, MSc, PhD, Vancouver, BC; Joy MacDermid, BScPT, MSc, PhD, Hamilton, ON; Michael McKee, MD, FRSC, Toronto, ON; Mohit Bhandari, MD, FRSC, PhD, Hamilton, ON

TR06 3:39pm
Pulsatile Lavage of Open Musculoskeletal Wounds Causes Muscle Necrosis and Dystrophic Calcification
Astor Robertson, MBBS, Parkville, MD; Stephen Zhao, BS, Baltimore, MD; Thao Nguyen, MD, Baltimore, MD; David Jaffe, MD, Baltimore, MD; Carla Hebert, BS, Baltimore, MD; William Fourney, PhD, College Park, MD; Joseph Stains, PhD, Baltimore, MD; Vincent Pellegrini, MD, Charleston, SC

3:45pm Discussion
2014 AOA/COA Combined Meeting Agenda
Thursday, June 19th (continued)

5:15pm–6:15pm  Traveling Fellowships Reception –
Current and Alumni Only
InterContinental Hotel - Les Voutes - Street Level

5:30pm–6:30pm  AOA Senior Advisory Council Reception
InterContinental Hotel - La Cave, Street Level

6:30pm–10:30pm Past Presidents’ Dinner at Montreal Fine Arts
Museum - Invitation Only

Friday, June 20 / Le vendredi 20 juin

6:00am–5:00pm  Registration Open • 210 Foyer

6:00am–5:30pm  Speaker Ready Room Open • 512A

6:30am–8:00am  Department Leadership Forum II: Incentivizing
Non-Remunerated Activities in the
Academic Department: Teaching, Research, and
Professional Service • 511E
Moderator: Vincent D. Pellegrini, Jr., MD
Medical University of South Carolina, Charleston, SC

6:30am–8:30am  Breakfast/Poster Viewing in Exhibit Hall • 210D

7:15am–8:30am  ICL 05: Low-Back Pain Management for the
General Orthopaedic Surgeon: From Conservative
Treatment to the Decision to Perform Surgery • 515
Moderator: Hamilton Hall, MD; Kingston, ON
Panelists: Y. Raja Rampersaud, MD, FRCSC, Toronto, ON
Christopher S. Bailey, MD; London, ON
Stefan Parent, MD, PhD, FRCSC; Montréal, QC
Objectives:
1. Distinguish between different patterns of low-back pain in the general population.
2. Determine the best course of treatment between conservative and surgical treatment.
3. Identify patients with more serious pathologies from patients with benign low-back pain.

2014 AOA/COA Combined Meeting Agenda
Friday, June 20th

7:15am–8:30am  ICL 06: Tendon Problems Around the Ankle • 510A
Moderator: Ruth Chaytor, MD, FRCSC; Montréal, QC
Panelists: Johnny T.C. Lau, MD, MSc, FRCSC; Toronto, ON
Kevin Wing, MD, FRCSC; Vancouver, BC
Mark Glazebrook, MD, FRCSC; Halifax, NS
Monica Volesky, MD; Montréal, QC
Objectives:
1. To understand the pathology behind the development of these tendon disorders and how
   the accompanying bony pathology contributes to the symptoms.
2. To learn the presenting signs and symptoms of these disorders and to learn the role in special
   imaging to diagnose these conditions.
3. To present the speakers’ unique management of these disorders and to simplify the surgical
   management.

7:15am–8:30am  ICL 07: Geriatric Fracture and Bone Health Care:
What Progress Have We Made? • 513CD
Moderator: Marc F. Swiontkowski, MD; Minneapolis, MN
Panelists: Kyle J. Jeray, MD; Greenville, SC
Clifford B. Jones, MD; Grand Rapids, MI
Earl R. Bogoch, MD; Toronto, ON
Aaron Nauth, MD, MSc; Toronto, ON
Objectives:
1. To identify what successes have been achieved in secondary fracture prevention programs in the open US
   health care system.
2. To identify and demonstrate effective techniques to get non-physician (administrator) support for FLS programs.
3. To identify what systems-based approaches have been employed in Canada, and lessons learned on what works
   and what doesn’t in secondary fracture prevention.
4. To identify how orthopaedic surgeons, primary care physicians, and bone health specialists can improve
   their synergistic care of older adult fracture patients, and implement considerations for a Fracture Liaison
   Service (FLS) model of care.
5. To identify effective strategies for risk screening, diagnosis, management, and follow-up for the patient
   with or at risk for atypical fractures.
7:15am–8:30am  ICL 08: Coaching in Orthopaedic Surgery • 513AB
Moderator: Marlene DeMaio, MD; Portsmouth, VA
Panelists: Robert Schenck, MD; Albuquerque, NM
Daniel Wascher, MD; Albuquerque, NM
Mark Miller, MD; Charlottesville, VA
Objectives:
1. Discuss the relevance and benefit of coaching in orthopaedic surgery.
2. Describe how coaching may be specifically applied in orthopaedics: to improve surgical technique, to promote evidence-based research, to improve coding, and to assist patients with their understanding of planned procedures.
3. Provide specific examples of coaching in orthopaedic surgery.
4. Provide general guidelines for the coach and the “coached” surgeon.

7:15am–8:30am  ICL 09: Review of Pediatric and Young Adult Sports Medicine • 514
Moderator: Marie-Lyne Nault, MD, PhD; Montréal, QC
Panelists: Yi-Meng Yen, MD, PhD; Boston, MA
Dennis Kramer, MD; Boston, MA
Ann Marie Lonergan; Montréal, QC
Objectives:
1. Assessment and management of emergency situations on the field.
2. Review of common hip problems in children and young adults including hip flexor pathologies, iliotibial band pathologies, and intra-articular pathologies.
3. Update on pediatric knee injury management including management of immature anterior cruciate ligament injury, discoid meniscus, and OCD.
4. Review of common young athlete foot and ankle pathologies.

8:00am–11:00am Spouse/Guest Hospitality Suite • Westin Hotel – Reporter Lounge – 3rd Floor.

8:30am–10:30am
Symposium 3: Orthopaedic Workforce Needs: Challenges in a Changing Environment • 210AB
Moderator: Stuart L. Weinstein, MD
University of Iowa Hospitals & Clinics, Iowa City, IA
Panelists: J. Lawrence Marsh, MD
University of Iowa Health Care, Iowa City, IA
Nizar Mahomed, MD, ScD, FRCSC
Toronto Western Hospital, Toronto, ON
Emil Schenitsch, MD, FRCSC
St. Michael’s Associates, Toronto, ON
We are in the midst of an “age quake,” the aging of the population around the world. Coincident with that, there is an increasing burden of disease for musculoskeletal conditions, with these conditions currently ranked as the second leading cause of disability around the world. What changes will be necessary in the workforce in North America to address this increasing burden of disease? In the United States, we are in the midst of a fundamental change in how health care is paid for and delivered. The United States is also seeing traditional physician roles assumed by mid-level providers and others. GME funding is also at risk. Canada, on the other hand, has already adapted to another system of health care payment and delivery, which may yet serve as a model for the United States. How each nation deals with medical education, specialty training, and the identification of workforce needs will be the subject of this symposium.

Carousel Presidents:
Scott Boden, MD–The American Orthopaedic Association
Joshua Jacobs, MD–American Academy of Orthopaedic Surgeons
Peter Choong, MD–Australian Orthopaedic Association
Tim Briggs, MD–British Orthopaedic Association
Ed Harvey, MD–Canadian Orthopaedic Association
Mark Wright, MD–New Zealand Orthopaedic Association
Jan de Vos, MD–South African Orthopaedic Association
Presidents from the English-Speaking Orthopaedic Societies will conclude this symposium with a discussion panel. Orthopaedists across the globe need new innovations, solutions, and processes to meet the increasing demand for care with decreasing resources. Each International President will share a broad range of perspectives, experiences, and knowledge. Collaborating
across cultures will help each country and orthopod generate a wider range of ideas and help to maximize an economy of effort.

9:00am–4:00pm
Exhibit Hall Open • 210D

10:30am–11:00am
Coffee Break in Exhibit Hall • 210D

11:00am–12:00pm
AOA/COA Presidential Guest Lecture • 210AB
Cy Frank, MD, FRCS; COA Past-President, 2010: Orthopaedics as the Model for Health Care

12:00pm–12:45pm
2014-2015 AOA Presidential Installation & Address, Tipping Points in Surgical Education
J. Lawrence Marsh, MD • 210AB

12:00pm–12:45pm
COA Business Meeting & Graduation Recognition Ceremony • 511EF

12:45pm–1:45pm
Exhibits with Complimentary Lunch • 210D

1:45pm–3:15pm
AOA/COA Paper Session: Adult Hip Complications • 511EF
Moderators: Douglas Naudié, MD, FRCS; London, ON; Prof. Peter Choong, AUOA President

AR31 1:45pm
TKA and THA Procedure Duration Affect the Rate of Wound Complications and Length of Hospital Stay
Yaron Brin, MD, Montréal, QC; Laura Epure, Eng, MSc; Montréal, QC; Adrian Cartaleanu, MD, Montréal, QC; Olga Huk, MD, MSc; Montréal, QC; David Zukor, MD, Montréal, QC; John Antoniou, MD, PhD, Montréal, QC

AR32 1:51pm
Periprosthetic Soft Tissue Reactions: Their Association with ALVAL & Natural History
Alberto Carli, MD, MSc, Montréal, QC; Huy Le, MD, FRRC; Montréal, QC; Federico Discepola, MD, FRRC; Montréal, QC; Olga Huk, MD, MSc; Montréal, QC; David Zukor, MD, Montréal, QC; John Antoniou, MD, PhD, Montréal, QC

2:03pm Discussion

AR34 2:12pm
Thromboembolic and Bleeding Events Following Elective Hip and Knee Arthroplasty Using Oral Factor Xa Inhibitor
John J. Murnaghan, MD, MSc, MA, FRCS; Toronto, ON; Jeffrey Gollish, MD, FRCS; Toronto, ON; Deborah Murnaghan, RN, CCRA; Toronto, ON; Helen Razmjou, RPT, PhD, Toronto, ON; Andrea Donovan, MD, FRCP; Toronto, ON; Vikas Bansal, MD, Toronto, ON

AR35 2:18pm
Whole Blood Metal Ion Measurement Reproducibility Between Different Laboratories
Michel Rahme, MD, Montréal, QC; Jonathan Hutt, MD, Montréal, QC; Martin Lavigne, MD, FRCS; Montréal, QC; Janie Barry, Research Assistant, Montréal, QC; Pascal André Vendittoli, MD, FRCS; Montréal, QC

AR36 2:24pm
Morbidity Associated with Diagnosis and Treatment of PE in TJA Patients: A Matched-Control Study of 30,000 Patients
Michele D’Apuzzo, MD, New York, NY; Wendy Novicoff, PhD, Charlottesville, VA; James Browne, MD, Charlottesville, VA

2:30pm Discussion

AR37 2:39pm
Are Patient Reported Allergies a Risk Factor for Poor Outcomes in Total Hip and Knee Arthroplasty?
Christopher Graves, MD, Iowa City, IA; Jesse Otero, MD, PhD, Iowa City, IA; Melissa Willenborg, MD, Iowa City, IA; Yubo Gao, PhD, Iowa City, IA; Steve Liu, MD, Iowa City, IA; Devon Goetz, MD, West Des Moines, IA; Richard Johnston, MD, Iowa City, IA; John Callaghan, MD, Iowa City, IA

AR38 2:45pm
Prevalence and Predictors of PseudoTumor and Elevated Metal Ion Levels Following Large-Diameter Metal-on-Metal Total Hip Arthroplasty
Nick Bayley, MD, Toronto, ON; Habeek Khan, MD, Toronto, ON; Paul Grosso, MD, FRCS; Kitchener, ON; Tom Hupel, MD, FRCS; Kitchener, ON; Dave Stevens, MD, FRCS; Kitchener, ON; Matt Snider, MD, FRCS; Kitchener, ON; Emil Schemitsch, MD, FRCS; Toronto, ON; Paul Kuzyk, MD, MASc, Toronto, ON
2014 AOA/COA Combined Meeting Agenda

2:03pm Discussion

FA03 2:12pm
Malreduction Rate Between a Static Implant and a Dynamic Implant Following Acute Syndesmosis Rupture Stabilization
Mélissa Laflamme, MD, FRCS, Québec, QC; Anne-Marie Bédard, MD, FRCS, Québec, QC; Marie-Claude Leblanc, MD, Québec, QC; Stephane Pelet, MD, FRCS, Québec, QC

FA04 2:18pm
Long-Term Follow-up of Patients with Ankle Distraction as a Treatment for End Stage Osteoarthritis
Annunziato Amendola, MD, Iowa City, IA; Douglas Pedersen, PhD, Iowa City, IA; Mai Nguyen, MD, Iowa City, IA

FA05 2:24pm
Minimal Clinically Important Difference (MCID) and the Effect of Clinical Variables on the Ankle Osteoarthritis Scale (AOS) in End-Stage Ankle Arthritis
Marcus Coe, MD, Lebanon, NH; Jason Sutherland, PhD, Vancouver, BC; Murray Penner, MD, FRCS, Vancouver, BC; Alastair Younger, MBChB, ChM, Vancouver, BC; Kevin Wing, MD, FRCS, Vancouver, BC

FA06 2:30pm
Does the SF-36 Mental Health Composite Score Predict Functional Outcome After Surgery in Patients with End Stage Arthritis?
Heather Barske, MD, FRCSC, Winnipeg, MB; Alastair Younger, MBChB, ChM, Vancouver, BC; Murray Penner, MD, FRCS, Vancouver, BC; Timothy Daniels, MD, FRCS, Toronto, ON; Mark Glazebrook, MD, FRCS, Halifax, NS; Kevin Wing, MD, FRCS, Vancouver, BC; Peter Dryden, MD, FRCS, Victoria, BC; Stephen Kennedy, MD, FRCS, Seattle, WA

2:36pm Discussion

FA07 2:48pm
Review of Infected Total Ankle Arthroplasties: Evaluation of Risk Factors and Treatment Options
Nathan Kiewiet, MD, Leawood, KS; Michael Brage, MD, Seattle, WA

FA08 2:54pm
In-Patient Trends and Complications After Total Ankle Arthroplasty in the United States
Hanbing Zhou, MD, Worcester, MA; Joshua Shaw, MD, MPH, Worcester, MA; Abhay Patel, MD, Worcester, MA; Xinning Li, MD, Boston, MA
FA09  3:00pm  
Comparison of Revision Rates Per Year as a Proportion of Primary Joint Replacements in British Columbia: Cause for Concern for Ankle Replacements  
Alastair Younger, MBChB, ChM, Vancouver, BC; Timo Schmid, MD, Berne, Switzerland; Kevin Wing, MD, FRCSC, Vancouver, BC; Murray Penner, MD, FRCSC, Vancouver, BC; Fabian Krause, PD, Berne, Switzerland  

FA10  3:06pm  
Outcomes of Tibiotalocalcaneal or Pantalar Fusion Versus Total Ankle Replacement with Ipsilateral Subtalar or Triple Fusion  
Maryse Bouchard, MD, MSc, Toronto, ON; Mara Jones, MD, Toronto, ON; Syndie Singer, MD, Toronto, ON; Ellie Pinsker, BScSc, Toronto, ON; Kevin Wing, MD, FRCSC, Vancouver, BC; Alastair Younger, MBChB, ChM, Vancouver, BC; Murray Penner, MD, FRCSC, Vancouver, BC; Timothy Daniels, MD, FRCSC, Toronto, ON  

3:12pm  Discussion  

1:45pm–3:15pm  AOA/COA Paper Session: Pediatrics/Spine  •  515  
Moderator: Marc Moreau, BA, MD, FRCSC, Edmonton, AB  
P/SP01  1:45pm  
A Predictive Model of Progression of Adolescent Idiopathic Scoliosis Based on 3D Spine Parameters at First Visit  
Marie-Lyne Nault, MD, PhD, Montréal, QC; Jean-Marc Mac Thiong, MD, Montréal, QC; Marjolaine Roy-Beaudry, MSc, Montréal, QC; Isabelle Turgeon, MSc, Montréal, QC; Hubert Labelle, MD, Montréal, QC; Jacques deGuise, PhD, Montréal, QC; Stefan Parent, MD, FRCSC, Montréal, QC  
P/SP02  1:51pm  
Intrathecal Morphine May Attenuate Acute Opioid Tolerance Secondary to Remifentanil in Children Undergoing Spinal Fusion  
Jochen Son-Hing, MD, FRCSC, Cleveland, OH; Matthew Kuestner, MD, Cleveland, OH; Paul Tripi, MD, Cleveland, OH; Connie Poe-Kochert, RN, CNP, Cleveland, OH; George Thompson, MD, Cleveland, OH  
P/SP03  1:57pm  
Health Care Pathways and Appropriateness of Referrals for Suspected Adolescent Idiopathic Scoliosis  
Marie Beauséjour, PhD, Montréal, QC; Lise Goulet, MD, PhD, Montréal, QC; Debbie Feldman, PhD, Montréal, QC; Roxane Borgès Da Silva, PhD, Montréal, QC; Raynald Pineault, PhD, Montréal, QC; Michel Rossignol, MD, MSc, Montréal, QC; Marjolaine Roy-Beaudry, MSc, Montréal, QC; Guy Grimard, MD, Montréal, QC; James Jarvis, MD, Ottawa, ON; Peter Jarzem, MD, FRCSC, Montréal, QC; Jean Ouellet, MD, Montréal, QC; Stefan Parent, MD, FRCSC, Montréal, QC; Benoit Poitras, MD, Montréal, QC; Chantal Théorêt, MD, Sherbrooke, QC; Hubert Labelle, MD, Montréal, QC  

2:03pm  Discussion  

P/SP04  2:12pm  
Distraction-Based Treatment Maintains Predicted Thoracic Dimensions in Early Onset Scoliosis  
Michael Glotzbecker, MD, Boston, MA; Meryl Gold, BA, Boston, MA; Patricia Miller, MS, Boston, MA; Behrooz Akbarnia, MD, La Jolla, CA; Charles Johnston, MD, Dallas, TX; Francisco Sanchez Perez Grueso, MD, Madrid, Spain; Suken Shah, MD, Wilmington, DE; John Emans, MD, Boston, MA  
P/SP05  2:18pm  
Management of Adolescent Idiopathic Scoliosis With the Providence Brace: A Retrospective Cohort Study  
Daniel Bohl, MPH, New Haven, CT; Connor Telles, MD, New Haven, CT; Nicholas Golivaux, BA, New Haven, CT; Bryce Basques, BS, New Haven, CT; Peter DeLuca, MD, New Haven, CT; Jonathan Grauer, MD, New Haven, CT  
P/SP06  2:24pm  
Reliability of Proximal Junctional Kyphosis Measurements for Early Onset Scoliosis  
Ammar Al Khudairy, MBChB, MRCSI, MCh, Halifax, NS; Luke Gauthier, MD, FRCSC, Halifax, NS; Carla Rioux, BBA, MSc(OT), Halifax, NS; Jacob Matz, MD, Halifax, NS; John Hefflin, MD, Ogden, UT; Ron El-Hawary, MD, FRCSC, Halifax, NS  
P/SP07  2:30pm  
The Provocative Radiographic Traction Test for Diagnosing Occipitocervical Dissociation: A Cadaveric Biomechanical Study and Reappraisal of the Pathogenesis of Occipitocervical Instability  
Zachary Child, MD, San Antonio, TX; Michael Lee, MD, Seattle, WA; Randall Ching, PhD, Seattle, WA; Daniel Rau, MD, Seattle, WA; Jens Chapman, MD, Seattle, WA; Carlo Bellabarba, MD, Seattle, WA  

2:36pm  Discussion  

Friday, June 20th (continued)
P/SP08 2:48pm
Current Surgical Practice for Traumatic Spinal Cord Injury in Canada
Michael Fehlings, MD, FACS, FRCS, PhD, Toronto, ON; Jerome Paquet, MD, Québec City, QC; Henry Ahn, MD, PhD, FRCS, Toronto, ON; Najmedden Attabib, MD, Saint John, NB; Christopher Bailey, MD, London, ON; Sean Christie, MD, Halifax, NS; Neil Duggal, MD, London, ON; Joel Finkelstein, MD, Toronto, ON; Daryl Fourney, MD, Saskatoon, SK; R. Hurlbert, MD, Calgary, AB; Brian Kwon, MD, Vancouver, BC; Stefan Parent, MD, PhD, FRCS, Montréal, QC; Eve Tsai, MD, Ottawa, ON; Marcel Dvorak, MD, Vancouver, BC

P/SP09 2:54pm
National Trends in the Management of Central Cord Syndrome
David Brodell, BA, Rochester, NY; Amit Jain, MD, Baltimore, MD; John Elfar, MD, Rochester, NY; Addisu Mesfin, MD, Rochester, NY

P/SP10 3:00pm
Early Spine Surgery in the Multiply Injured Patient: Implications of Damage Control Criteria
James Mok, MD, Chicago, IL; Joseph Galvin, DO, Tacoma, WA; Andrew Schoenfeld, MD, Canutillo, TX; Andrew Cap, MD, PhD, Ft. Sam Houston, TX; Brett Freedman, MD, PPO, Armed Forces, Europe

P/SP11 3:06pm
Evaluating the Extent of Clinical Variability Among Treatment Options for Patients With Adult Spinal Deformity
Philippe Phan, MD, Ottawa, ON; Avraam Ploumis, MD, PhD, Boston, MA; Kathryn Hess, BSc, Boston, MA; Kirk Wood, MD, Boston, MA

3:12pm Discussion
1:45pm–3:15pm AOA/COA Paper Session: Sports: Hip/Shoulder Instability • 511BC
Moderators: Veronique Godbout, MD, MSc, FRCS, Montréal, QC; James Carpenter MD, Ann Arbor, MI

SM11 1:45pm
Clinical Outcomes of Hip Arthroscopy With Microfracture: A Matched-Pair Controlled Study With Minimum 2-Year Follow-Up
Benjamin Domb, MD, Westmont, IL; Asheesh Gupta, MD, Westmont, IL; Kevin Dunne, BS, Westmont, IL; John Redmond, MD, Westmont, IL; Christine Stake, MA, Westmont, IL

SM12 1:51pm
Evaluation of Hip Internal and External Rotation Range of Motion as an Injury Risk Factor for Hip, Abdominal, and Groin Injuries in Professional Baseball
Xinning Li, MD, Boston, MA; Richard Ma, MD, Columbus, MO; Hanbing Zhou, MD, Worcester, MA; Matthew Thompson, MD, North Kansas City, MO; Courtney Dawson, MD, Boston, MA; Joseph Nguyen, MPH, New York, NY; Struan Coleman, MD, PhD, New York, NY

1:57pm Discussion
SM13 2:06pm
Three Dimensional MRI Quantification of Glenoid Bone Loss is Equivalent to CT Quantification: Cadaveric Study
Adam Yanke, MD, Chicago, IL; Jason Shin, MD, Saskatoon, SK; Ian Pearson, BS, Chicago, IL; Anthony Romeo, MD, Chicago, IL; Bernard Bach, Jr., MD, Chicago, IL; Nikhil Verma, MD, Chicago, IL

SM14 2:12pm
Comparison of Glenohumeral Contact Pressures and Contact Areas After Posterior Glenoid Reconstruction With Iliac Crest or Distal Tibia Osteochondral Allograft
Rachel Frank, MD, Chicago, IL; Jason Shin, MD, Saskatoon, SK; Maristella Saccomanno, MD, Chicago, IL; Sanjeev Bhatia, MD, Chicago, IL; Elizabeth Shewman, MS, Chicago, IL; Vincent Wang, PhD, Chicago, IL; Bernard Bach, Jr., MD, Chicago, IL; Brian Cole, MD, MBA, Chicago, IL; Matthew Provencer, MD, San Diego, CA; Nikhil Verma, MD, Chicago, IL; Anthony Romeo, MD, Chicago, IL

SM15 2:18pm
A Prospective Evaluation of the Instability Severity Index and Western Ontario Shoulder Instability Score in Patients in Anterior Glenohumeral Instability
Martin Bouliane, MD, FRCSC, Edmonton, AB; David Sheps, MD, MSc, MBA, FRCS, Edmonton, AB; Manoj Saraswat, BSc, MHS, CP, FRCS, Edmonton, AB; Anelise Silveira, PT, MS, Edmonton, AB; Robert Glasgow, MC, FRCS, Edmonton, AB; David Saliken, MD, Edmonton, AB; Lauren Beaupre, PT, PhD, Edmonton, AB

2:24pm Discussion
SM16 2:33pm
Pitching Speed and Glenohumeral Adaptation in High School Pitchers
Vasilios (Bill) Moutzouras, MD, Northville, MI; Robert Keller, MD, Detroit, MI; Nima Mehran, MD, Detroit, MI; Nathan Marshall, MD, Detroit, MI

SM17 2:39pm
Relationship of Gene Expression in the Injured Human Meniscus to Body Mass Index: A Plausible Biological Connection Between Obesity and Osteoarthritis
Robert Brophy, MD, Chesterfield, MO; M. Rai, PhD, St. Louis, MO; Debabrata Patra, PhD, St. Louis, MO; Linda Sandell, PhD, St. Louis, MO

Toutes les salles sont situées au Palais des congrès de Montréal sauf indication contraire.
Le porte-nom est exigé à toutes les activités, y compris aux présentations scientifiques. Auteurs notés en italique présentent.
TU05  2:18pm
Developing a Predictive Nomogram for Local Recurrence in Soft Tissue Sarcoma
Krista Goulding, MD, FRCSC, Birmingham, England; Mousumi Biswas, MD, Bristol, England; Robert Grimer, MB, BS, DSc, FRCS, FRCSed(Orth), Birmingham, England

TU06  2:24pm
Oncologic Outcomes of Management of Soft Tissue Osteosarcoma
Marilyn Heng, MD, FRCSC, Toronto, ON; Anthony Griffin, MSc, Toronto, ON; Abha Gupta, MD, MSc, FRCP, Toronto, ON; Peter Ferguson, MD, Toronto, ON; Jay Wunder, MD, Toronto, ON

2:30pm  Discussion

TU07  2:39pm
Navigated Bone Cuts Using an Osteotome and an Oscillating Saw: A Sawbones and Cadaver Study Assessing Accuracy and Reproducibility of Resection Planes
Aidin Kashigar, MD, BASc, Toronto, ON; Amir Sternheim, MD, Toronto, ON; Michael Daly, MSc, Toronto, ON; Jimmy Qiu, MASC, Toronto, ON; Robert Weersink, PhD, Toronto, ON; Harley Chan, PhD, Toronto, ON; Anthony Griffin, MSc, Toronto, ON; Jonathan Irish, MD, Toronto, ON; Peter Ferguson, MD, Toronto, ON; Jay Wunder, MD, Toronto, ON

TU08  2:45pm
Acetabular Reconstruction for Metastatic Disease: Outcomes of a Rational Surgical Approach in the Era of Cost Containment
Nicholas Bernthal, MD, Salt Lake City, UT; Michael Monument, MD, FRCS, Salt Lake City, UT; Shawn Price, MD, Louisville, KY; Brandon Wilkinson, BSc, Salt Lake City, UT; Kevin Jones, MD, Salt Lake City, UT; R. Lor Randall, MD, Salt Lake City, UT

TU09  2:51pm
Efficacy of Denosumab as an Adjuvant in the Management of Giant Cell Tumor of Bone with Special Reference to its Role in Joint Preservation
Frank Traub, MD, PhD, Toronto, ON; Janith Singh, MD, Toronto, ON; Dickson Brendan, MD, Toronto, ON; Robert Bleakney, MD, Toronto, ON; Martin Blackstein, MD, Toronto, ON; Anthony Griffin, MSc, Toronto, ON; Peter Ferguson, MD, Toronto, ON; Jay Wunder, MD, Toronto, ON

TU10  2:57pm
A Translational Study of the Neoplastic Cells of GCT Following Neoadjuvant Denosumab
Nathan Evaniew, MD, Hamilton, ON; Isabella Mak, MSc, Hamilton, ON; Snezana Popovic, MD, PhD, MSc, FRCP, Hamilton, ON; Richard Tozer, MD, PhD, FRCP, Hamilton, ON; Michelle Ghert, MD, FRCS, Hamilton, ON
1:45pm–3:15pm

Symposium 4: Preparing for Value-Based Health Care

ARK12 4:06pm
Limited Understanding of the Relationship Between Patient Factors and Patient-Reported Outcomes Following Total Knee Arthroplasty
Michael Zywiw, MD, Toronto, ON; Marvlyn Palaganas, MS, Toronto, ON; Viji Venkataramanan, MA, Toronto, ON; Aileen Davis, PhD, Toronto, ON

ARK13 4:12pm
Long-Term (Minimum 20-Year) Outcomes of Total Knee Arthroplasty in Patients Under 55 Years Old With Post-Traumatic and Osteoarthritis
William Long, MD, FRCSC, New York, NY; Chris Bryce, MD, Gilbert, AZ; Christopher Hollenbeck, PhD, Hershey, PA; Rodney Benner, MD, New York, NY; W. Scott, MD, FACS, New York, NY

ARK14 4:18pm
Symptomatic Joint Counts Predict Depression in a Hip And Knee Replacement Osteoarthritis Cohort
Rajiv Gandhi, MD, Toronto, ON; Amy Bugg, BA, Toronto, ON; Michael Zywiw, MD, Toronto, ON; Nizar Mahomed, MD, ScD, FRCSC, Toronto, ON; Anthony Perruccio, PhD, Toronto, ON

4:24pm  Discussion

ARK15 4:36pm
Multi-Joint Arthritis is Associated With Increased Health Resource Utilization for Patients Undergoing TKA
Michael Zywiw, MD, Toronto, ON; Rushil Chaudhary, Toronto, ON; Y. Raja Rampersaud, MD, FRCSC, Toronto, ON; Rajiv Gandhi, MD, Toronto, ON; Nizar Mahomed, MD, ScD, FRCSC, Toronto, ON; Anthony Perruccio, PhD, Toronto, ON

ARK16 4:42pm
Total Joint Replacement and Pre-Operative Low Back Pain
Mitchell Winemaker, MD, FRCSC, Hamilton, ON; Phillip Staibano, Hons BSc (Candidate), Hamilton, ON; Danielle Petruccelli, MLIS, MSc, Hamilton, ON; Justin de Beer, MD, FRCSC, Hamilton, ON

ARK17 4:48pm
Implant Migration Over One-Year of Shape Match Derived Kinematic Alignment Versus Conventional Alignment Using Computer Navigation for Total Knee Arthroplasty in a Randomized Trial
Elise Laende, MASc, Halifax, NS; Glen Richardson, MD, MSc, FRCSC, Halifax, NS; Michael Dunbar, MD, PhD, Halifax, NS

3:03  Discussion

1:45pm–3:15pm

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Mitchell Winemaker, MD, FRCSC, Hamilton, ON; Phillip Staibano, Hons BSc (Candidate), Hamilton, ON; Danielle Petruccelli, MLIS, MSc, Hamilton, ON; Justin de Beer, MD, FRCSC, Hamilton, ON

ARK17 4:48pm
Implant Migration Over One-Year of Shape Match Derived Kinematic Alignment Versus Conventional Alignment Using Computer Navigation for Total Knee Arthroplasty in a Randomized Trial
Elise Laende, MASc, Halifax, NS; Glen Richardson, MD, MSc, FRCSC, Halifax, NS; Michael Dunbar, MD, PhD, Halifax, NS
4:54pm  Discussion

ARK18  5:03pm
Outcomes of Total Knee Arthroplasty in Relation to Osteoarthritis in the Contralateral Knee: Data From the Osteoarthritis Initiative
Timothy Kahn, BA, Irvine, CA; Aydin Soheili, MD, Irvine, CA; Ran Schwarzkopf, MD, Orange, CA

ARK19  5:09pm
The Cost-Effectiveness of Outpatient Versus Standard Inpatient Total Knee Arthroplasty
Adrian Huang, MB, BCh, BAO, Ottawa, ON; Geoffrey Dervin, MD, MSc, Ottawa, ON

ARK20  5:15pm
Early Total Knee Arthroplasty Failure: Related Factors and Outcome
Michel Malo, MD, Montréal, QC; Pierre-Luc Charlebois, MD, Montréal, QC; Karine Bourduas, MD, Montréal, QC

5:21PM  Discussion

4:00pm–5:30pm  AOA/COA Paper Session: Hand & Wrist/ Upper Extremity • 515
Moderators: Geoffrey Johnston, MD, MBA, FRCSC, FACS, Saskatoon, SK; Walter McClelland MD, Atlanta, GA

UE11  4:00pm
Endothelial Progenitor Cells for Rotator Cuff Repair
Tony Lin, MSc, Toronto, ON; Michael Glick, MSc, Toronto, ON; Erica Giles, BSc, Toronto, ON; Sarah Ketcheson, BSc, Toronto, ON; Andrew Dold, MD, Toronto, ON; Emil Schemitsch, MD, FRCSC, Toronto, ON; Aaron Nauth, MD, FRCSC, Toronto, ON

UE12  4:06pm
Outcome of Non-Operative Treatment for Patients with Chronic Rotator Cuff Tears Can Be Predicted From Presenting Clinical Characteristics: A Consecutive Prospective Cohort and Regression Analysis
Richard Boorman, MD, MSc, FRCSC, Calgary, AB; Kristie More, MSc, Calgary, AB; Robert Hollinshead, MD, MSc, FRCSC, Calgary, AB; J. Wiley, MD, Calgary, AB; Kelly Brett, MD, Calgary, AB; Nicholas Mohtadi, MD, MSc, FRCSC, Calgary, AB; Aitiba Nelson, MPH, Calgary, AB; Ian Lo, MD, FRCSC, Calgary, AB; Dianne Bryant, PhD, MSc, London, ON

UE13  4:12pm
Delayed Versus Early Motion Following Arthroscopic Rotator Cuff Repair: A Systematic Review and Meta-Analysis
Kevin Chan, MD, MSc; Hamilton, ON; Joy MacDermid, BScPT, MSc, PhD, Hamilton, ON; Daniel Hoppe, MD, MEd, Hamilton, ON; Olufemi Ayeni, MD, FRCSC, MSc, Hamilton, ON; Mohit Bhandari, MD, FRCSC, PhD, Hamilton, ON; Clary Foote, MD, Hamilton, ON; George Athwal, MD, London, ON

4:18pm  Discussion

UE14  4:27pm
The Quantified Effects of Cryotherapy After Distal Radius Fracture Repair Splinting
Kevin Chan, MD, MSc; Hamilton, ON; Joy MacDermid, BScPT, MSc, PhD, Hamilton, ON; Daniel Hoppe, MD, MEd, Hamilton, ON; Olufemi Ayeni, MD, FRCSC, MSc, Hamilton, ON; Mohit Bhandari, MD, FRCSC, PhD, Hamilton, ON; Clary Foote, MD, Hamilton, ON; George Athwal, MD, London, ON

UE15  4:33pm
Radiographic, and Serial Clinical and Patient Rated Outcomes for No Less Than One Year Post Fracture for 193 Distal Radius Fractures (Treated Non-Operatively or Surgically), in Women ≥ 50 Years; Introduction of Shared Management Decision-making
Geoffrey Johnston, MD, MBA, Saskatoon, SK

UE16  4:39pm
Arthrodesis Versus Prosthetic Arthroplasty in Patients With Osteoarthritis or Post-Traumatic Arthritis of the Index Finger Proximal Interphalangeal Joint
Sanjeev Kakar, MD, MRCS, MBA, Rochester, MN; Mark Vitale, MD, Greenwich, CT; Marco Rizzo, MD, Rochester, MN

4:45pm  Discussion

UE17  4:54pm
Leveraging the Internet to Improve Patient Education and Satisfaction: A Prospective Randomized Study
Khin-Kyemon Aung, AB, Eastlake, OH; Wei Kang Wu, BA, Boston, MA; Phoebe Kuo, AB, New Haven, CT; Charles Day, MD, MBA, Boston, MA

UE18  5:00pm
The Role Of Depression in Outcomes and Complications in Patients Over 55 with Isolated Fractures of the Distal Radius
Jane Yeoh, MD, BSc, Vancouver, BC; Jeffrey Pike, MD, MPH, FRCSC, Vancouver, BC; Henry Broekhuysen, MD, FRCSC, Vancouver, BC; Peter O’Brien, MD, FRCSC, Vancouver, BC; Kelly Lefaivre, MD, BScH, MSc (Epid), FRCSC, Vancouver, BC
UE19 5:06pm
Suture Fixation Versus Tendonous Reconstruction in CMC Arthroplasty: Double-Blind RCT
Mellisa Roskosky, MSPH, Athens, GA; Ashley Cole, MPH, Athens, GA; Emily Epstein, MPH, Athens, GA; Michael Shuler, MD, Athens, GA

UE20 5:12pm
The Long-Term Outcomes After Closed Reduction of Simple Elbow Dislocations
Chetan Modi, MBChB, MSc, FRCS (Tr & Orth), Toronto, ON; David Wasserstein, MD, MPH, FRCS, Toronto, ON; Ian Mayne, MD, Toronto, ON; Patrick Henry, MD, MSc, PhD Candidate, Portland, ME; Nizar Mahomed, MD, ScD, FRSCC, Toronto, ON; Christian Veillette, MD, MSc, FRSCC, Toronto, ON

5:18pm Discussion

4:00pm–5:30pm AOA/COA Paper Session: Pediatrics • 513CD
Moderators: Debra Bartley, MD, FRSCC, London, ON; Colin Moseley, Los Angeles, CA

PED01 4:00pm
Inhibition of Fibroblast Growth Factor Receptor 3 (FGFR3) Signaling to Accelerate Bone Formation During Distraction Osteogenesis of Mice Tibiae
Waleed Albishi, MD, Montréal, QC; Abdallah Hussein, MD, Montréal, QC; René St-Arnaud, PhD, Montréal, QC; Reggie Hamdy, MD, FRSCC, Montréal, QC

PED02 4:06pm
Cost-Effectiveness of the 6 Axis External Fixation Compared to Ilizarov for Canadian Health Care Centres
Khalid Alkhelaifi, MD, Montréal, QC; Elisabeth Leblanc, MD, MSc, FRSCC, Montréal, QC; Mohammad Alzahrani, MD, Montréal, QC; Marie Gdalevitch, MD, FRSCC, Montréal, QC

PED03 4:12pm
The Effect of Systemic Administration of Sclerostin Antibodies in a Mouse Model of Limb Lengthening
Asim Makhdom, MD, MS(c), Montréal, QC; Dominique Lauzier, BA, Montréal, QC; Reggie Hamdy, MD, FRSCC, Montréal, QC

4:18pm Discussion

PED04 4:27pm
Femoral Head/Neck Contour Varies as a Function of Physeal Development
Anthony Vo, BS, Ottawa, ON; Paul Beaulé, MD, Ottawa, ON; Marcos Sampaio, MD, Ottawa, ON; Carmen Rotaru, MD, Ottawa, ON; Kawan Rakhra, MD, FRCP, Ottawa, ON

PED05 4:33pm
Incidence of Avascular Necrosis Following Proximal Femoral Varus Derotational Osteotomy in Patients with Cerebral Palsy
Kevin Smit, MD, London, ON; Timothy Carey, MD, FRSCC, London, ON; Debra Bartley, MD, FRSCC, London, ON; Abdel Lawendy, MD, MSc, FRSCC, London, ON; Megan Cashin, MD, FRSCC, London, ON

PED06 4:39pm
Re-Operations Following Tarsal Coalition Resections: A Population-Based Study
Amir Khoshbin, MD, Toronto, ON; Maryse Bouchard, MD, MSc, Toronto, ON; David Wasserstein, MD, MPH, FRSCC, Toronto, ON; Timothy Leroux, MD, MEd, Toronto, ON; Peggy Law, MSc, Toronto, ON; Hans Kreder, MD, MPH, FRCCSB, Toronto, ON; Timothy Daniels, MD, FRSCC, Toronto, ON; James Wright, MBBS, Toronto, ON

4:45pm Discussion

PED07 4:54pm
Outcomes of Rigid Intramedullary Nail Fixation in Pediatric Femoral Fractures
Christopher Del Balso, BSc, MSc, MBBS, London, ON; Debra Bartley, MD, FRSCC, London, ON; Megan Cashin, MD, FRSCC, London, ON; Timothy Carey, MD, FRSCC, London, ON; Abdel Lawendy, MD, MSc, FRSCC, London, ON

PED08 5:00pm
The Role of Computed Tomography in the Classification and Treatment of Pediatric Pelvic Fractures-Revisited
William Hennekens, MD, Hershey, PA; Melissa Bent, MD, Hershey, PA; Douglas Armstrong, MD, Hershey, PA

PED09 5:06pm
MRI Anatomy of the Tibial ACL Attachment and Proximal Epiphysis in a Large Population of Skeletally Immature Knees: Reference Parameters for Planning Anatomic Physeal-Sparing ACL Reconstruction
Vimarsha Swami, BSc, Edmonton, AB; Myles Mabee, BSc, Edmonton, AB; Catherine Hui, MD, FRSCC, Edmonton, AB; Jacob Jarema, MD, PhD, Edmonton, AB

PED10 5:12pm
Medial Patellofemoral Ligament (MPFL) Reconstruction with Hamstring Autograft Improves Patella Alta in Children
Peter Fabricant, MD, MPH, New York, NY; Eduardo Salvati, MD, New York, NY; Hannah Ladenhauf, MD, New York, NY; Daniel Green, MD, New York, NY

5:18pm Discussion
4:00pm–5:30pm  AOA/COA Paper Session: Trauma 2 • 513EF
Moderators: Chad P. Coles, MD, FRCSC, Halifax, NS;
Madhav Karunakar, Charlotte, NC

TR12  4:00pm
Outcomes of Cephalomedullary Fixation for Low-Energy Intertrochanteric Hip Fractures
J. Scott Broderick, MD, Greenville, SC; Wesley Lackey, MD, Greenville, SC; Stephanie Tanner, MS, Greenville, SC; Kyle Jeray, MD, Greenville, SC; Southeastern Fracture Consortium, Greenville, SC

TR13  4:06pm
Do Pre-Operative Echocardiograms Delay Time to Surgery in Patients with Hip Fractures?
Darryl Collings, MD, London, ON; James Howard, MD, MSc, FRCSC, London, ON; Terry Lyne McLaughlin, NP, London, ON; Edward Vasarhelyi, MD, FRCSC, London, ON; Douglas Naude, MD, FRCSC, London, ON; Richard McCalden, MD, FRCSC, London, ON; Steven MacDonald, MD, FRCSC, London, ON

TR14  4:12pm
Predictors of Residential Drift Following Treatment for Fracture Neck of Femur
Joby John, MS, FRCs (Orth), PhD, Calgary, AB; Shashi Nanjayan, MRCS, Derby, Derbyshire; Girish Swamy, MRCS, Derby, Derbyshire; Konstantinos Mitsiou, MBBS, Derby, Derbyshire; Amol Tambe, MS, FRCs (Orth), Derby, Derbyshire; Tarek Abuzakuk, FRCs (Orth), Derby, Derbyshire

4:16pm  Discussion

TR15  4:26pm
Delirium is Associated with Greater In-Hospital Health Resource Utilization in Patients with Hip Fractures
Michael Zywiel, MD, Toronto, ON; Rajiv Gandhi, MD, Toronto, ON; Rushil Chaudhary, Toronto, ON; Nizar Mahomed, MD, ScD, FRCSC, Toronto, ON; Peter Coyle, PhD, Toronto, ON; Y. Raja Rampersaud, MD, FRCSC, Toronto, ON

TR16  4:32pm
Fragility Fractures in the Orthopaedic Practice. Clinical Characteristics of Patients, and Response to Osteoporosis Treatment at 18 Months Follow-Up
Josee Delisle, BS(N), MSc, Montréal, QC; Julie Fernandes, MD, PhD, Montréal, QC; Pierre Beaumont, MD, Montréal, QC; Sylvain Gagnon, MD, Montréal, QC; Alain Jodoin, MD, Montréal, QC; G-Yves Laflamme, MD, FRCSC, Montréal, QC; Stéphane Leduc, MD, Montréal, QC; Jean-Marc Mac Thiong, MD, Montréal, QC; Michel Malo, MD, Montréal, QC; Gilles Maurais, MD, Montréal, QC; Stefan Parent, MD, FRCSC, Montréal, QC; Pierre Ranger, MD, Montréal, QC; Jean-Pierre Raynauld, MD, Montréal, QC; Dominique Rouleau, MD, MSc, FRCSC, Montréal, QC; Yves Troyanov, MD, Montréal, QC

TR17  4:38pm
Healing Time and Complications in Operatively Treated Atypical Femur Fractures Associated With Bisphosphonate Use: A Multicenter Retrospective Cohort
Yelena Bogdan, MD, Boston, MA; Paul Tornetta, III, MD, Boston, MA; Thomas Einhorn, MD, Boston, MA; Pierre Guy, MD, MBA, Vancouver, BC; Lise Leveille, MD, Vancouver, BC; Juan Robinson, BA, MBBS, MRCS (Edin), Dip SICOT, FRCS (Trau & Orth) (Edin), MSc Trauma Surgery (Military), Halifax, NS; Michael Bosse, MD, Charlotte, NC; Nikkole Haines, MD, Charlotte, NC; Daniel Horvitz, MD, Danville, PA; Clifford Jones, MD, FACS, Grand Rapids, MI; Emil Schemitsch, MD, FRCSC, Toronto, ON; H. Claude Sagi, MD, Tampa, FL; Daniel Stahl, MD, Temple, TX; William Ricci, MD, Saint Louis, MO; Megan Brady, MD, Cleveland, OH

4:44pm  Discussion

TR18  4:54pm
Digital Blinding of Radiographs to Mask Treatment Allocation of Distal Femur Fractures in a Randomized Control Trial
Lukasz Soswa, MD, Vancouver, BC; Gerard Slobogean, MD, MPH, FRCSC, Vancouver, BC; Peter O’Brien, MD, FRCSC, Vancouver, BC; Kelly Lefaire, BScH, MSc, MSc, Dip (Ep), FRCSC, Vancouver, BC

TR19  5:00pm
Tip-Cortical Distance: Intramedullary Nail Distance to the Femoral Cortex and Its Relation to Periprosthetic Fracture
Leo Carroll, BSc, Vancouver, BC; Aseer Shafqat, MBBS, MRCS, Galway, Ireland; James Hardt, MD, MSc, MRCSI, FRCSI (TR&ORTH), Cork, Ireland

TR20  5:06pm
Locked Plating Versus Retrograde Nailing for Distal Femur Fractures: A Multicenter Randomized Trial
Paul Tornetta, III, MD, Boston, MA; Kenneth Egol, MD, New York, NY; Clifford Jones, MD, FACS, Grand Rapids, MI; Janos Paul Erti, MD, Indianapolis, IN; Brian Mullis, MD, Indianapolis, IN; Edward Perez, MD, Memphis, TN; Cory Collinge, MD, Fort Worth, TX; Robert Dunbar, MD, Seattle, WA; Robert Ostrum, MD, Camden, NJ; Catherine Humphrey, MD, Rochester, NY; Michael Gardner, MD, St. Louis, MO; William Ricci, MD, St. Louis, MO; Laura Phieffer, MD, Columbus, OH; David Teague, MD, Oklahoma City, OK; William Ertl, MD, Oklahoma City, OK

5:12pm  Discussion
Symposium 5: When Will We Learn that “New and Improved” Doesn’t Mean We Gotta Have It? • 210AB
Moderator: Alexander J. Ghanayem, MD
Loyola University Medical Center, Maywood, IL
Panelists: Sigurd H. Berven, MD
University of California-San Francisco, San Francisco, CA
Serena S. Hu, MD, Stanford University, Redwood City, CA
Orthopaedic implants and biologic substitutes are continually subject to technologic innovation and change. Forces driving this, ranging from true innovation to factors surrounding patent expiration and managing device-makers’ implant portfolios as a part of physician/customer marketing strategies, will be explored. Evidence for this evolution ranges from rigorous scientific analysis to nothing beyond white papers and skillful regulatory navigation. The cost of such innovation, to the consumer of these products, is usually more expensive than products currently on the market, which they intend to replace. This symposium will explore the science and myths behind what is “new and improved,” the cost and value associated with real or perceived innovation, and how surgeons and health systems can critically evaluate these issues as stewards for scarce health care resources while maximizing benefits for our patients.

4:00pm–5:30pm

An Evening at le Cirque
Fairmont Hotel – Grand Salon
All registrants and guests invited—additional fee
Join your friends and colleagues at the Fairmont Queen Elizabeth’s Grand Ballroom for a magical evening of mingling, cocktails, dinner, and circus entertainment. This casual evening is a great way to unwind and catch up with colleagues and friends from all over Canada and the US. Shuttle service will be provided. A limited number of tickets is available for purchase at the Registration Desk. Tickets must be purchased by Wednesday, June 18 at 7:30pm.
Cost: $95 per adult and $25 per child (under 12 years of age).

4:00pm

Exhibit Hall Closes

6:45pm–10:00pm

Note: A portion of the ticket price has been underwritten by the AOA and COA.
Saturday, June 21 / Le samedi 21 juin

6:30am–11:00am  
Registration Open • 210 Foyer
Speaker Ready Room Open • 512A

6:30am–12:15pm  
ICL 10: Bone Defects: When Are Orthobiologics Indicated? • 511EF
Co-Moderators:
Stuart B. Goodman, MD, PhD; Redwood City, CA
A. Seth Greenland, DPhil (Oxon); Cleveland, OH
Panelists: Joshua J. Jacobs, MD; Chicago, IL
Ross K. Leighton, MD, FRCSC; Halifax, NS
Emil H. Schemitsch, MD; Toronto, ON
Wellington Hsu, MD; Chicago, IL
Wayne G. Paprosky, MD; Chicago, IL
Allan E. Gross, MD, FRCSC; Toronto, ON
Objectives:
1. Discuss current scientific principles and physiologic processes of bone formation and repair.
2. Discuss contemporary availability, emerging roles, and utility of orthobiologic materials, agents, and cells, including their structure, their mechanisms of action, and the level of evidence claimed.
3. Discuss specific clinical applications and outcomes where orthobiologics have been employed. This will include case studies involving complex fractures, spine surgery, and adult reconstructive surgery.

7:15am–8:30am  
ICL 11: Management of Distal Radius Fractures: When Volar Plating May Not Be Enough • 511BC
Moderator: Peter Stern, MD; Cincinnati, OH
Panelists: Sanjeev Kakar, MD, MRCS, MBA; Rochester, MN
Paul Tornetta, III, MD; Boston, MA
Martin Boyer, MD; St. Louis, MO
Objectives:
1. Have an understanding as to when the use of volar plating is and is not appropriate for the management of distal radius fractures.
2. Understand the indications for fragment-specific fixation and distraction plating for severely comminuted intra-articular distal radius fractures.

7:15am–8:30am  
ICL 12: Orthopaedic Traumatology in the Austere Environment—Civilian and Military Perspectives on Practice and Leadership • 513EF
Co-Moderators: Dana C. Covey, MD, MSc; San Diego, CA
Juan Robinson, MD; Halifax, NS
Panelists: Vernon F. Sechriest, MD; San Diego, CA
Matthew T. Provancher, MD; San Diego, CA
Chris T. Born, MD; Providence, RI
Andrew Furey, MD, FRCSC; St. John’s, NL
Richard Gosselin, MD, MSc, MPH, FRCSC; San Francisco, CA
Objectives:
The attendants to this ICL will gain:
1. Understanding of the burden of musculoskeletal trauma in the developing world.
2. Overview of the nature of humanitarian work from both military and civilian perspectives.
3. Insight into the skills and attributes required for working in the field and how to achieve them.
4. Awareness on how to leave a positive legacy once the mission is over.

7:15am–8:30am  
ICL 13: Management of Complications in Orthopaedic Oncology • 513CD
Moderator: Sophie Mottard, MD; Montréal, QC
Panelists: Peter C. Ferguson, MD; Toronto, ON
Kurt Weiss, MD; Pittsburgh, PA
William Eward, MD, DVM; Durham, NC
Objectives:
1. To discuss the risk factors and management of post-radiation wound complications.
2. To present an overview of management strategies for the infected tumor megaprosthesis.
3. To discuss options for management of failed reconstruction for metastatic bone disease.
4. To foster future collaborations between members of the COA and AOA with interest in the management of complications.
7:15am–8:30am  
**ICL 14: Bearing Choice in Total Hip Arthroplasty: State of the Art • 513AB**

**Moderator:** Jason Werle, MD; Calgary, AB  
**Panelists:** Eric Bohm, MD, BEng, MSc, FRCSC; Winnipeg, MB  
Richard McCallum, MD, FRCSC; London, ON  
Nelson Gresianus, MD, FRCSC; Vancouver, BC  

**Objectives:**
1. To inform participants of bearing options for total hip arthroplasty including Metal/Ceramic on Polyethylene, Ceramic on Ceramic, Metal on Metal, and Ceramicized Metal on Polyethylene.
2. To determine safety and indications/contraindications of THA bearings including unique concerns with Metal-on-Metal bearings.
3. To educate participants on the revision of failed THA bearings including complications such as bearing fracture, pseudotumor formation, bearing noise, and liner dissociation.
4. To increase the surgical community of ongoing surveillance strategies for THA bearings including revision decision-making.
5. To inform the surgical community of ongoing surveillance strategies for THA bearings including revision decision-making.

8:00am–10:00am  
**Spouse/Guest Hospital Suite • Westin Hotel – Reporter Lounge – 3rd Floor**  

9:00am–10:00am  
**AOA-AAOS Leadership Meeting • 512C**  

9:00am–10:30am  
**Symposium 6: Quality and Safety in Orthopaedics—Learning and Teaching at the Same Time • 210AB**  

**Moderator:** Kevin P. Black, MD, Penn State Milton S. Hershey Medical Center, Hershey, PA  
**Panelists:** April D. Armstrong, MD, FRCSI, Penn State Milton S. Hershey Medical Center, Hershey, PA  
Kenneth Egol, MD, NYU Hospital for Joint Diseases, New York, NY  

Increasing emphasis continues to be placed on quality and safety of patient care, but formal training in the science of teamwork, patient safety, and quality has not been a part of traditional undergraduate and graduate medical education curriculums. Many orthopaedists have an incomplete understanding of which metrics are currently being reported and why, and how to improve quality and safety. The academic orthopaedist not only struggles with these issues in his or her own delivery of care, but also has the assigned responsibility of teaching these topics to residents. This symposium will focus on the rationale behind utilization of currently reported quality and safety measurements, implications for value-based purchasing, and opportunities for education and improved quality and safety performance for both the practicing orthopaedist, as well as the orthopaedic resident.

**AOA-ABOS-RRC Leadership Meeting • 512C**

10:00am–11:00am  
10:30am–10:45am Coffee Break • 210 Foyer  

**Symposium 7: Sufficient Competence to Enter the Unsupervised Practice of Medicine: What Is It, When Does It Occur, and Do We Know It When We See It? • 210AB**

**Moderator:** Vincent D. Pellegrini, Jr., MD  
**Medical University of South Carolina, Charleston, SC**  
**Panelists:** Richard L. Cruess, MD, FRCSC  
**Center for Medical Education, Montréal, QC**  
Timothy W. R. Briggs, MD (Res), MCh (Orth), FRCS,  
**The Royal National Orthopaedic Hospital, Stanmore, England**  
Peter C. Ferguson, MD, MSc, FRCS,  
**University of Toronto, Toronto, ON**

The goal of residency programs is to provide an educational venue with graduated responsibility and increasing levels of independence as preparation for entering the unsupervised practice of medicine. As such, surgical programs require three fundamental components: a sufficient fund of knowledge, technical competence in surgical procedures, and a degree of professionalism to enable ethical independent practice. Never before has the expectation that residency programs provide graduated responsibility in preparation for genuine independence in practice been so clearly articulated as it has by Thomas J. Nasca, MD, with the recent ACGME work hour guideline revisions. Yet, as we enter the second decade of work hour restrictions, it is unclear if we can either define or recognize the critical endpoints essential to competency that we seek in trainees.
What IS clear is that we must achieve these endpoints in a manner very different than what was done two decades ago. We must, therefore, quickly learn to define, recognize, and measure those elements that we believe to be critical to allow independent medical practice in the field of orthopaedics.

11:00am–12:00pm  AOA 2014-2015 Executive Committee Meeting • 512D

12:15pm  Meeting Adjourns

Affiliated Events

Resident Leadership Forum (RLF)
Emerging Leaders Forum (ELF)
Canadian Orthopaedic Residents’ Association (CORA)
Canadian Orthopaedic Research Society (CORS)
AOA’s Council of Orthopaedic Residency Directors (CORD) Conference
12th Annual AOA Resident Leadership Forum

June 17-18, 2014

Palais des congrès de Montréal
Room 510A, Level 5

Forum Chair: Robert F. Ostrum, MD

The AOA recognizes the following RLF sponsors:
AOA Resident Leadership Forum Agenda

Tuesday, June 17, 2014

7:00am–7:45am
Resident Leadership Forum Continental Breakfast • 510 Foyer

8:00am
Resident Leadership Forum Day One Begins
Welcome • 510A
Robert F. Ostrum, MD; Chair, Resident Leadership Forum
Leading as a Chief Resident • 510A
Samir Mehta, MD
Leadership Solutions: Program Director Perspectives • 510A
Ginger Holt, MD; Keith Kenter, MD; Rick Wright, MD
Leadership Lunch • 511E
Introduction to the AOA • 510A
Kevin P. Black, MD; Second President-Elect
Professionalism, Professional Identity, and Socialization • 510A
Richard Cruess, MD and Sylvia Cruess, MD
Setting Up a Practice • 510A
William N. Levine, MD; Xavier Duralde, MD; Scott D. Weiner, MD
Chief Resident Innovation Project • 510A
Robert F. Ostrum, MD

6:00pm
Conclusion of Resident Leadership Forum Day One

6:30pm–7:45pm
Resident Leadership Forum Reception • InterContinental Salon Sarah Bernhardt

Wednesday, June 18, 2014

6:15am–6:45am
Resident Leadership Forum Continental Breakfast • 510 Foyer

7:00am
Resident Leadership Forum Day Two Begins
Orthopaedic Mythbusters • 510A
Joseph Bernstein, MD; Doug Dirschl, MD; Paul Tornetta, MD
Who will Control the Practice of Orthopaedics in the Future? • 510A
Michael E. Chernew, PhD
How to Attain Balance and Remain Energized • 510A
John Kelly, MD
Residents as Teachers
Greg Berry, MD and Robert Fox, EdD
Lunch • 511E
The Psychology of Problem Solving: Decision Making • 510A
Boaz Keysar, PhD
Chief Resident Innovation Project • 510A
Robert F. Ostrum, MD

5:00pm
Conclusion of Resident Leadership Forum Day Two

5:30pm–7:00pm
Opening Ceremony • 210AB

7:00pm–8:00pm
AOA/COA Presidents’ Welcome Reception • Exhibit Hall 210D

RLF attendees are invited to participate in Day One of the Combined Meeting at no extra charge.

Young Leaders Committee

Robert F. Ostrum, MD, Co-Chair, Resident Leadership Forum
John G. Heller, MD, Co-Chair, Emerging Leaders Program
Jonathan P. Braman, MD
Ranjan Gupta, MD
Robert A. Hart, MD
Serena S. Hu, MD
Keith Kenter, MD
Theodore W. Parsons, III, MD, FACS
Montri D. Wongorawat, MD
Deana Mercer, MD, Ex Officio
Joseph R. O’Brien, MD, MPH, Ex Officio
AOA
Emerging Leaders Forum

June 17-18, 2014

Palais des congrès de Montréal
Room 512C, Level 5

Forum Chair: John G. Heller, MD

The AOA recognizes the following ELF sponsors:

### Young Leaders Committee

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Tuesday, June 17, 2014

12:45pm
Emerging Leaders Forum Day One Begins
Welcome • 512C
John G. Heller, MD; Chair, Emerging Leaders Forum

AOA Presidential Line Welcome • 512C
Kevin P. Black, MD; Second President-Elect

Motivating and Educating the Reflective Orthopaedic Surgeon • 512C
Robert Fox, EdD

Teaching Professionalism: Supporting the Development of a Professional Identity • 512C
Richard Cruess, MD and Sylvia Cruess, MD

Innovations Project • 512C
John G. Heller, MD;

6:00pm
Emerging Leaders Forum Day One Ends

6:30pm-8:15pm
Emerging Leaders Reception • InterContinental Salon Vieux Montréal/Vieux Port

Wednesday, June 18, 2014

7:00am-7:45am
Continental Breakfast • 512 Foyer

Emerging Leaders Forum Day Two Begins

Interpersonal Problem Solving: Competition and Cooperation • 512C
Boaz Keysar, PhD

Working Lunch • 513CD

AOA Highlights: Own the Bone & Traveling Fellowships • 512C

Overcoming Obstacles: Emerging as a Leader • 512C
Darrel Brodke, MD; Marlene DeMaio, MD; Deana Mercer, MD; Bernard Morrey, MD

Leadership in an ACA Era • 512C
Michael E. Chernew, PhD

Emerging Leaders Innovation Project Presentations • 512C
John G. Heller, MD;

Closing Comments • 512C
John G. Heller, MD; Chair, Emerging Leaders Forum

5:00pm
Conclusion of Emerging Leaders Forum

5:30pm-7:00pm
Opening Ceremony • 210AB
AOA/COA Presidents’ Reception

7:00pm-8:00pm
Exhibit Hall 210D

This activity has been planned and implemented in accordance with the Essential Areas and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint sponsorship of the American Academy of Orthopaedic Surgeons and The American Orthopaedic Association. The American Academy of Orthopaedic Surgeons is accredited by the ACCME to provide continuing medical education for physicians.

The American Academy of Orthopaedic Surgeons designates this live activity for a maximum of 10.0 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.
June 18, 2014

Palais des congrès de Montréal
Room 513A, Level 5

CORA acknowledges the following sponsors/contributors for their generous support of the 2014 CORA Annual Meeting

Canadian Orthopaedic Residents’ Association (CORA) Program
8:00am–9:00am  Registration • Foyer 210, level 2 Palais des congrès

9:00am-11:30am  CORA Paper Session • 513A
Moderators:  Marie Gdalevitch, Montréal, QC; Yves Lafontaine, Montréal, QC; Paul A. Martineau, Montréal, QC

9:00am  Opening Remarks from CORA Co-Chairs
Stéphanie Hinse & Asim Makhdom, Montréal, QC

CORA01 9:05am  Radiographic Quantification of Glenoid Bone Loss: A Cadaveric Study
Troy D. Bornes, University of Alberta

CORA02 9:15am  The Epidemiology of Pediatric Supracondylar Fracture Fixation: A Population-based Study
Amir Khoshbin, University of Toronto

CORA03 9:25am  Knee Chondrolysis Associated with Bupivacaine? Epinephrine Infusion Through an Intra-articular Pain Pump Catheter Post-arthroscopic Anterior Cruciate Ligament Reconstruction
Jason J. Shin, University of Saskatchewan

CORA04 9:35am  Does Magnitude of Femoral Version Affect Outcomes for Femoroacetabular Impingement Surgery?
Michael Sellan, Western University

CORA05 9:45am  Risk of Hip Arthroplasty After Open Reduction Internal Fixation of a Fracture of the Acetabulum: A Matched Cohort Study
Sam Si-Hyeong Park, University of Toronto

CORA06 9:55am  Patients’ Perspectives on the Extent of Resident Participation in the Operating Room for Total Hip or Knee Arthroplasty
Prateek Goyal, Western University

10:05am-10:25am  Coffee Break in Foyer with Posters

CORA07 10:30am  Predictors of Early Anterior Cruciate Ligament Failure, is Graft Diameter a Factor?
Ian MacNiven, University of Ottawa

CORA08 10:40am  The Effect of Systemic Administration of Sclerostin Antibodies in a Mouse Model of Distraction Osteogenesis
Asim Makhdom, McGill University

CORA09 10:50am  Revision Rates for Deep Periprosthetic Infections in Patients Receiving Local Infiltration Analgesia in Primary Total Knee Arthroplasty
Colin MacLean, Western University

CORA10 11:00am  Performance Outcomes Post-acl Reconstruction in a Pediatric Population - A Pilot Project
Allison Tucker, Queen’s University

CORA11 11:10am  The Health Economic Implications of Perioperative Delirium in Older Orthopaedic Surgery Patients with Low-energy Hip Fractures
Michael G. Zywiel, University of Toronto

CORA12 11:20am  The Risk of Knee Arthroplasty Following Cruciate Ligament Reconstruction: A Population-based Matched Cohort Study
Timothy Leroux, University of Toronto

11:30am–1:00pm  Lunch on the Rooftop Terrace • 720/725, Level 7

1:00pm  Presentation of Best Paper Awards • 513A

1:10pm-3:30pm  CORA Symposium • 513A

Surgical Innovation
Dr. Paul A. Martineau (McGill University)

OrthoEvidence: Evidence that Matters
Dr. Mohit Bhandari (McMaster University)

New Technologies in Orthopaedics
Dr. Pascal A. Vendittioli (Université de Montréal)

Team Broken Earth in Haiti: An Orthopaedic Experience
Dr. Andrew Furey (Memorial University)

Bones and Phones Scholarship
Dr. James P. Waddell (Canadian Orthopaedic Foundation)

5:30–7:30pm  Opening Ceremony • 210AB

7:00-9:00pm  Presidents’ Reception in Exhibit Hall • 210D

8:00pm  CORA Social Night • Santos Tapas Bar (ticket required)
Canadian Orthopaedic Research Society (CORS) Program

June 19, 2014

Palais des congrès de Montréal
Room 513C & 513D, Level 5
The Journey from Problem to Product: An engineer's view of working in the medical device industry

L. JOSHUA LEON Ph.D., FEC, PEng. is the Dean of Engineering at Dalhousie University. He previously was Professor and Head of the Department of Electrical and Computer Engineering at the University of Calgary. Before moving to Calgary, Dr. Leon was a faculty member in the Institute of Biomedical Engineering and the Department of Electrical and Computer Engineering at the École Polytechnique de Montréal. He earned his BSc and Master's degrees in Mathematics and a PhD in Biophysics at Dalhousie and became a professional engineer through courses and confirmatory examinations.

Throughout his career, Dr. Leon has been a very active researcher. He has published over 80 peer reviewed articles on computational science, electromagnetics, bioelectric phenomena, image and signal processing, and cardiac electrophysiology. His current research focus is on the acceleration of numerical software using Graphics Processing Units (GPU).

Dr. Leon is a co-founder of Acceleware, a publicly traded company based in Calgary, Alberta. They are the recognized world leader in General Purpose GPU computing.

Du problème au produit : Point de vue d’un ingénieur en conception de dispositifs médicaux

L. JOSHUA LEON, Ph.D., FEC, ing., est doyen de la Faculté d’ingénierie à l’Université Dalhousie. Il a précédemment été professeur et chef du département de génie électrique et de génie informatique à l’Université de Calgary. Avant de s’établir à Calgary, M. Leon était membre du corps professoral de l’Institute of Biomedical Engineering et des départements de génie informatique et de génie électrique de l'École polytechnique de Montréal. Détenteur d’un baccalauréat ès sciences et d’une maîtrise spécialisés en mathématiques ainsi que d’un doctorat en biophysique de l’Université Dalhousie, il est devenu ingénieur grâce à différents cours et examens de confirmation.


M. Leon est cofondateur d’Acceleware, une société cotée en bourse établie à Calgary, en Alberta, et reconnue comme le leader mondial en traitement graphique d’usage général.
Canadian Orthopaedic Research Society (CORS) Program

Thursday, June 19th

6:30am–5:00pm  Registration open • Foyer 210, Level 2 Palais des congrès
6:30am–8:30am  Breakfast/Poster Viewing in the Exhibit Hall • 210D

7:00am–8:30am  CORS Paper Session: Arthroplasty • 513C
  Moderators: Jason Werle, MD, FRCS, Calgary, AB; Michael Dunbar, MD, PhD, FRCS, Halifax, NS

CORS01 7:00am
Three-Dimensional Geometric Analysis of the Talus
Kamrul Islam, MSc Structural Engineering, Edmonton, AB; Ashlee Dobbe, MD, MSc, BSc, Edmonton, AB; Kajsa Duke, PhD, Edmonton, AB; Marwan El-Rich, PhD, Edmonton, AB; Sukhvinder Dhillon, MB, FRCP, Edmonton, AB; Samer Adeeib, PhD, Edmonton, AB; Nadr Jomha, MD, PhD, FRCS, Edmonton, AB

CORS02 7:06am
A New Method of 3D Preoperative TKA Sizing and Placement From 2D Analysis of Calibrated Radiographs
Jerome Groduin Lazazzera, BSc, Kingston, ON; Michael Brean, BBS, Kingston, ON; James Stewart, PhD, Kingston, ON; Theodore Cooke, MA, MB, BChir, FRCSC, Perth, ON

CORS03 7:12am
Functional Gait Outcomes After Patient-Specific Total Knee Replacements (OtisMed)
Kathryn Young, MASc, BSc Eng, Halifax, NS; Michael Dunbar, MD, PhD, Halifax, NS; C. Glen Richardson, MD, MSc, FRCS, Halifax, NS; Janie Astephen Wilson, PhD, Halifax, NS

7:18am  Discussion

CORS04 7:30am
Wear Testing of Polyethylene for Total Joint Replacements: Is Sodium Azide Effective?
Jan Brandt, PhD, Winnipeg, MB; Alexander Vecherya, CET, Winnipeg, MB; Leah Guenther, BSc, MSc, Winnipeg, MB; Susan Koval, PhD, London, ON; Martin Petrak, MSc, Winnipeg, MB; Eric Bohm, MD, B Eng, MSc, FRCS, Winnipeg, MB; Urs Wyss, PhD, Winnipeg, MB

CORS05 7:36am
The Effect of a More Clinically Relevant Lubricant Composition on Polyethylene Wear
Leah Guenther, BSc, MSc, Winnipeg, MB; Eric Bohm, MD, B Eng, MSc, FRCS, Winnipeg, MB; Thomas Turgeon, MD, Winnipeg, MB; Urs Wyss, PhD, Winnipeg, MB; Jan Brandt, PhD, Winnipeg, MB

CORS06 7:42am
Corrosive Damage on the CoCr Alloy Liner Taper Junction of Modular Metal-on-Metal Total Hip Replacements
Trevor Gascoyne, MSc, Winnipeg, MB; Richard Dyrkacz, MSc, Winnipeg, MB; Thomas Turgeon, MD, Winnipeg, MB; Colin Burnell, MD, FRCS, Winnipeg, MB; Urs Wyss, PhD, Winnipeg, MB; Jan Brandt, PhD, Winnipeg, MB

7:48am Discussion

CORS07 8:00am
Comparison of Peripheral Blood Lymphocyte Phenotypes in Patients with Failed Metal-on-Metal Hip Implants With and Without a Pseudotumor
Xiao Xiang, BSc, Ottawa, ON; Elise Guira, undergraduate, Ottawa, ON; Ian Hurda, MS, Ottawa, ON; Eric Lehoux, PhD, Ottawa, ON; Matthieu Lemay, BAS, Ottawa, ON; Stephen Baskey, BAsc, Ottawa, ON; Paul Beaulé, MD, Ottawa, ON; Isabelle Catelas, PhD, Ottawa, ON

CORS08 8:06am
Identification of Proteins Differentially Represented in the Synovial Fluid of Patients with Failed Metal-on-Metal and Metal-on-Polyethylene Hip Implants
Eric Lehoux, PhD, Ottawa, ON; Zhibin Ning, PhD, Ottawa, ON; Paul Beaulé, MD, Ottawa, ON; Daniel Figeys, PhD, Ottawa, ON; Stephen Baskey, BAsc, Ottawa, ON; Isabelle Catelas, PhD, Ottawa, ON

8:12am  Discussion

7:00am–8:30am  CORS Paper Session: Spine • 513D
  Moderators: Neil Manson, MD, FRCSC, Dip Sports Med, Saint John, NB; Albert Yee, MD, MSc, FRCSC, DABOS, Toronto, ON

CORS09 7:00am
Evaluation of a Novel Coil-Shaped Radiofrequency Probe in the Porcine Spine
Padina Pezeshki, BAsc, MSc, PhD Candidate, Toronto, ON; Sean Davidson, BAsc, MSc, Toronto, ON; Margarete Akens, PhD, Toronto, ON; Claire McCann, PhD, MCCPM, Toronto, ON; Kieran Murphy, MB, FRCPC, FSIR, Toronto, ON; Cari Whyne, PhD, Toronto, ON; Michael Sherar, PhD, Toronto, ON; Albert Yee, MD, MSc, FRCS, DABOS, Toronto, ON

CORS10 7:06am
Ex Vivo μ-image Based Strain Analysis Represents in Vivo Quasi Static Vertebral Behavior
Chetan Choudhari, MASc, Toronto, ON; Ryan Herblum, MASc, Toronto, ON; Margarete Akens, PhD, Toronto, ON; Sara Moore, PhD, Toronto, ON; Michael Hardisty, PhD, Toronto, ON; Cari Whyne, PhD, Toronto, ON

CORS11 7:12am
Quantifying Finite Helical Axes During Simulated Spine Movements via the Alpha Shape
Stewart McLachlin, PhD, Toronto, ON; Cynthia Dunning, PhD, London, ON

CORS12 7:18am
Fourier Transform Infrared Spectral Analysis of Degenerative Human Intervertebral Discs
Hadjab Insaf, En Msc, Montréal, QC; Laura Epure, Eng MScA, Montréal, QC; Michael Grant, PhD, Montréal, QC; John Antoniou, MD, PhD, Montréal, QC; Yahia L’Hocine, PhD, Montréal, QC; Jackson Mwale, PhD, Montréal, QC

Thursday, June 19th (continued)
CORS13 7:24am  
Analysis of Load-Sharing Pattern of Cervical Spine Under Different Rates of Impact Loading Conditions  
Tanvir Mustafy, MSc, Edmonton, AB; Marwan El-Rich, PhD, Edmonton, AB; Kodjo Moglo, PhD, Kingston, ON

7:30 Discussion

CORS14 7:50am  
Link-N as a Therapeutic Agent for Pain Associated with Intervertebral Disc Degeneration  
Hussain Noorwali, MSc, Montréal, QC; Padma Madiraju, MSc, Montréal, QC; John Antoniou, MD, PhD, Montréal, QC; Fackson Mwale, PhD, Montréal, QC

CORS15 7:56am  
Regulation of the Calcium-Sensing Receptor by Link N in the Cartilaginous Endplates of Human Intervertebral Discs  
Michael Grant, PhD, Montréal, QC; Laura Epure, Eng MS, Montréal, QC; John Antoniou, MD, PhD, Montréal, QC; Fackson Mwale, PhD, Montréal, QC

CORS16 8:02am  
Mechanism of Human and Bovine Link N-Induced Proteoglycan Synthesis in the Intervertebral Disc  
Fackson Mwale, PhD, Montréal, QC; Sultan Aldebeiy, MD, Montréal, QC; Laura Epure, Eng MS, Montréal, QC; Michael Grant, PhD, Montréal, QC; Sonia Rampersad, MSc, Montréal, QC; John Antoniou, MD, PhD, Montréal, QC

CORS17 8:08am  
Cleavage of Link N by Cells From the Human Annulus Fibrosus Generates a Fragment That Retains Biological Activity in an Inflammatory Milieu  
Rahul Gawri, MBBS, PhD, Montréal, QC; Jean Ouellet, MD, Montréal, QC; Patrik Önerfjord, PhD, Lund, Skane; Bashar Alkhatib, BSc, Montréal, QC; Thomas Steffen, MD, PhD, MBA, Montréal, QC; Dick Heinegård, PhD, Lund, Skane; Peter Roughley, PhD, Montréal, QC; John Antoniou, MD, PhD, Montréal, QC; Fackson Mwale, PhD, Montréal, QC; Lisbet Haglund, PhD, Montréal, QC

8:14am Discussion

8:45am–10:15am CORS Paper Session: Imaging and Modeling I • 513C  
Moderators: Douglas Naudie, FRSC, London, ON; Janie Astephens Wilson, PhD, MS, BSc, Halifax, NS

CORS18 8:45am  
The Serum Biomarker Profile is Different in Young Adults Undergoing Joint Preservation Surgery from Normals  
James Powell, MD, Calgary, AB; Kamal Bai, MD, London, ON; Mohammed Alshehri, MD, Calgary, AB; Pamela Railton, RN, MN, Calgary, AB; Kelly Johnston, MD, Calgary, AB; Gerhard Kiefer, MD, Calgary, AB; Akash Fichadiya, BSc, Calgary, AB; Roman Krzetez, PhD, Calgary, AB

CORS19 8:51am  
The Effect of Obesity on Neuromuscular Patterns of Individuals With and Without Knee OA  
Pouya Amiri, Student of Master of Applied Science, Biomedical Engineering, Halifax, NS; Cheryl Hubley-Kokey, PhD, Professor, Halifax, NS; Michael Dunbar, MD, PhD, Halifax, NS; William Stanish, MD, FRCS, Halifax, NS; Janie Astephens Wilson, PhD, Halifax, NS

CORS20 8:57am  
Standardized Standing Pelvis-to-Floor Photographs for the Assessment of Lower Extremity Alignment  
Lisa Sheehy, PT, PhD, Ottawa, ON; Linda McLean, PT, PhD, Kingston, ON; Theodore Cooke, MA, MB, BChir, FRCS, Perth, ON; Elsie Culham, PT, PhD, Kingston, ON

9:03am Discussion

CORS21 9:15am  
Locally Delivered Alendronic Acid Increases Net Bone Formation Around Porous Titanium Implants  
Jenny Ann Pura, BSc, Montréal, QC; Michael Tanzer, MD, FRCS, Montréal, QC; John Dennis Bobyn, PhD, Montréal, QC

CORS22 9:21am  
Locally Released Alendronate Improves Bone Formation and Porous Implant Fixation  
Michael Tanzer, MD, FRCS, Montréal, QC; Jenny Ann Pura, BSc, Montréal, QC; John Dennis Bobyn, PhD, Montréal, QC

9:27am Discussion

CORS23 9:36am  
Failure Behaviour of the Proximal Femur is Influenced by Loading Mechanism  
Seth Gilchrist, BSc, MSc, PhD Candidate, Vancouver, BC; Pierre Guy, MD, MBA, Vancouver, BC; Kyle Nishi, BComp, PhD, New York, NY; Steven Boyd, PhD, Calgary, AB; Peter de Bakker, MSc, PhD, Vancouver, BC; Thomas Oxlund, BASc, MSc, MS, M Phil, PhD, Vancouver, BC; Peter Cripton, BEng, MSc, PhD, Vancouver, BC

9:33am Discussion

CORS24 9:42am  
A Comparison of Standard and Telecentric Lenses for Use in 3D Digital Image Correlation Strain Measurements  
Shartad Bashar, BEng, Montréal, QC; Ryan Kope, BEng, London, ON; Louis Ferreira, PhD, London, ON

9:48am Discussion
Monday, June 18th (continued)

8:45am–10:15am CORS Paper Session: Upper Extremity • 513D
Moderators: Dominique Rouleau, MD, MSc, FRCSC, Montréal, QC; Diane Nam, MSc, MD, FRCSC, Toronto, ON

CORS25 8:45am Implications of Radial Head Hemiarthroplasty Dish Depth on Contact Mechanics: A Finite Element Analysis
Elizabeth Irish, BSc, London, ON; G. Daniel Langohr, BASc, MASc, London, ON; Ryan Willing, PhD, Binghamton, NY; Graham King, MD, MSc, FRCSC, London, ON; James Johnson, BEng (Mech), PhD, PEng, London, ON

CORS26 8:51am Comparison of the Native Radiocapitellar Joint to Axisymmetric and Non-Axisymmetric Radial Head Hemiarthroplasty Using Finite Element Contact Analysis
G. Daniel Langohr, BASc, MASc, London, ON; Ryan Willing, PhD, Binghamton, NY; John Medley, PhD, Waterloo, ON; Graham King, MD, MSc, FRCSC, London, ON; James Johnson, BEng (Mech), PhD, PEng, London, ON; Graham King, MD, MSc, FRCSC, London, ON; George Athwal, MD, London, ON

9:03am Discussion

CORS28 9:15am In Vitro Performance of a Reverse Engineered Distal-Humeral Hemiarthroplasty Implant
Ryan Willing, PhD, Binghamton, NY; Michael Lapner, MD, FRCSC, London, ON; James Johnson, BEng (Mech), PhD, PEng, London, ON; Graham King, MD, MSc, FRCSC, London, ON

CORS29 9:21am Development of a Computational Elbow Model with Experimental Validation of Muscle Loads
Jonathan Kusins, BESc, Worthington, ON; Ryan Willing, PhD, Binghamton, NY; Graham King, MD, MSc, FRCSC, London, ON; Louis Ferreira, PhD, London, ON

9:33am Discussion

Canadian Orthopaedic Research Society (CORS) Program
Thursday, June 19th (continued)

8:45am–10:15am CORS Paper Session: Upper Extremity • 513D
Moderators: Dominique Rouleau, MD, MSc, FRCSC, Montréal, QC; Diane Nam, MSc, MD, FRCSC, Toronto, ON

CORS30 9:27am Elbow Loading as a Result of Muscle Activation and Joint Position
Jennifer Ng, BMSc, BESc, London, ON; Masao Nishiwaki, MD, PhD, London, ON; Braden Gammon, MD, BSc, London, ON; Mark Welsh, BScE, London, ON; George Athwal, MD, London, ON; Graham King, MD, MSc, FRCSC, London, ON; James Johnson, BEng (Mech), PhD, PEng, London, ON

10:01am Discussion

10:15am–10:45am Coffee Break in Exhibit Hall • 210D

10:45am–11:45am CORS Business Meeting with Lunch • 513C

11:45am–12:30pm CORS Paper Session: Imaging and Modeling 2 • 513C
Moderators: Alastair Younger, MB, ChB, MSc, ChM, FRCSC, Vancouver, BC; John Antoniou, MD, PhD, FRCSC, Montréal, QC

12:00pm–1:00pm CORS Business Meeting with Lunch • 513C

1:00pm–2:30pm CORS Paper Session: Imaging and Modeling 2 • 513C
Moderators: Alastair Younger, MB, ChB, MSc, ChM, FRCSC, Vancouver, BC; John Antoniou, MD, PhD, FRCSC, Montréal, QC

9:03am Discussion

CORS31 9:43am Development of a Novel in Vitro Shoulder Simulator for Active Control of Glenohumeral and Scapulothoracic Movements in Various Planes
Joshua Giles, BESc, London, ON; Louis Ferreira, PhD, London, ON; George Athwal, MD, London, ON; James Johnson, BEng (Mech), PhD, PEng, London, ON

CORS32 9:49am Hill-Sachs Defect Engagement: The Influence of Size, Range of Motion, and Joint Translation
Mark Welsh, BScE, London, ON; Joshua Giles, BESc, London, ON; Ryan Willing, PhD, Binghamton, NY; James Johnson, BEng (Mech), PhD, PEng, London, ON; George Athwal, MD, London, ON

CORS33 9:55am Do Reverse Engineered Patient-Specific Hemiarthroplasty Implants Reduce Cartilage Stresses? A Finite Element Analysis
Ryan Willing, PhD, Binghamton, NY; Graham King, MD, MSc, FRCSC, London, ON; James Johnson, BEng (Mech), PhD, PEng, London, ON

10:01am Discussion

10:15am–10:45am Coffee Break in Exhibit Hall • 210D

10:45am–11:45am J. Edouard Samson Award: Brian K. Kwon, MD, FRCSC
Bench to Bedside and Back: Translational Research in Acute Spinal Cord Injury

COA President-Elect Address and Transfer of Office: Bas A. Masri, MD, FRCSC
The Only Constant is Change

12:00pm–1:00pm CORS Business Meeting with Lunch • 513C

1:00pm–2:30pm CORS Paper Session: Imaging and Modeling 2 • 513C
Moderators: Alastair Younger, MB, ChB, MSc, ChM, FRCSC, Vancouver, BC; John Antoniou, MD, PhD, FRCSC, Montréal, QC

9:03am Discussion

CORS34 1:00pm Towards Establishing the Next Generation of High Resolution Peripheral QCT Scanners for in Vivo Orthopaedic Applications
Sarah Manske, PhD, Calgary, AB; Ying Zhu, PhD, Calgary, AB; Clara Sandino, PhD, Calgary, AB; Richard Walker, MD, FRCPC, Calgary, AB; Steven Boyd, PhD, Calgary, AB

CORS35 1:06pm Cross Sectional Studies Grossly Underestimate Individual-Specific Longitudinal Change: A 5-Year Follow-up Study
Lauren Burt, PhD, Calgary, AB; Heather Macdonald, PhD, Vancouver, BC; David Hanley, MD, BA, FRCPC, Calgary, AB; Steven Boyd, PhD, Calgary, AB

CORS36 1:12pm Cortical Porosity by HR-pQCT, Accuracy and Systemic Relevance
Britta Jorgenson, BSc, Calgary, AB; David McErlain, BSc, MSc, PhD, Calgary, AB; Steven Boyd, PhD, Calgary, AB
1:18pm Discussion

CORS37 1:30pm
Computed Tomography is Ineffective in Detecting Glenoid Bonegraft Resorption Following Reverse Shoulder Arthroplasty
Nikolas Knowles, BEng, London, ON; Daniel Richmond, London, ON; Louis Ferreira, PhD, London, ON; George Athiswal, London, ON

CORS38 1:36pm
Symmetry Analysis of the Talus Bone
Kamrul Islam, MSc Structural Engineering, Edmonton, AB; Ashlee Dobbe, MD, MSc, BSc, Edmonton, AB; Amin Komeili, MSc, Edmonton, AB; Kajsa Duke, PhD, Edmonton, AB; Sukhvinder Dhillon, MB, FRCR, Edmonton, AB; Marwan El-Rich, PhD, Edmonton, AB; Samer Adeeep, PhD, Edmonton, AB; Nadr Jomha, MD, PhD, FRSCC, Edmonton, AB

1:42pm Discussion

CORS39 1:50pm
An Anatomical Comparison Study of the Human, Sheep, and Pig Meniscus
Talal Takroni, MD, Edmonton, AB; Leila Laour, PhD, Edmonton, AB; Janet Elliott, PhD, Edmonton, AB; Adetola Adeida, PhD, Edmonton, AB; Nadr Jomha, MD, PhD, FRSCC, Edmonton, AB

CORS40 1:56pm
A Refined Technique to Calculate Helical Axes From Six-DOF Tracker Output
Stewart McLachlin, PhD, Toronto, ON; Louis Ferreira, PhD, London, ON; Cynthia Dunning, PhD, London, ON

2:02pm Discussion

1:00pm–2:30pm CORS Paper Session: Bone, Tendon, and Ligament • 513D
Moderators: Cari Whyne, PhD, Toronto, ON; Steven Boyd, PhD, MSc, Calgary, AB

CORS43 1:12pm
Calcium Polyphosphate Particulate: A Biodegradable Bone Void Filler
John Theodopoulous, MD, MSC, FRSCC, Toronto, ON; Youxin Hu, PhD, Toronto, ON; Rita Kandel, MD, Toronto, ON; Marc Grynpas, PhD, Toronto, ON; Robert Pilliar, PhD, Toronto, ON

CORS44 1:18pm
Elevated Plasma Alpha-2-Macroglobulin Correlates With Glucocorticoid-Induced Osteonecrosis of the Femoral Head in Wistar but not Fischer Rats
Alberto Carli, MD, MSc, Montréal, QC; Edward Harvey, MD, MSc, FRSCC, Montréal, QC; Chan Gao, MD, Montréal, QC; Yongbiao Li, PhD, Montréal, QC; Bouziane Azeddine, MSc, PhD, Montréal, QC; Mireille Sayegh, MD, Montréal, QC; Rene Michel, MD, FCRCPC, Montréal, QC; Ayoub Nahal, MD, FCRCPC, Montréal, QC; Janet Henderson, PhD, Montréal, QC; Chantal Seguin, MD, FCRCPC, Montréal, QC

1:24pm Discussion

CORS45 1:40pm
Comparison of Tendon-Derived Stem Cells and Endothelial Progenitor Cells for Tendon Regeneration in a Tendon-Bone Defect Model
Ru Li, MD, PhD, Toronto, ON; Darrell Ogilvie-Harris, MD, MSc, FRSCC, Toronto, ON; Nizar Mahomed, MD, ScD, FRSCC, Toronto, ON; Herb von Schroeder, MD, FRSCC, Toronto, ON; Christian Veillette, MD, MSc, FRSCC, Toronto, ON

CORS46 1:46pm
Mechanism of Naproxen-Induced Type X Collagen Expression in Mesenchymal Stem Cells
Abdulrahman Alaseem, MD, Montréal, QC; Padma Madiraju, MSc, Montréal, QC; Sultan Aldebeyan, MD, Montréal, QC; John Antoniou, MD, PhD, Montréal, QC; Fackson Mwale, PhD, Montréal, QC

CORS47 1:52pm
The Effect of Endothelial Progenitor Cells (EPCs) and Mesenchymal Stem Cells (MSCs) on the Repair of Collagenase-Induced Tendon Injury
Ru Li, MD, PhD, Toronto, ON; Nizar Mahomed, MD, ScD, FRSCC, Toronto, ON; Darrell Ogilvie-Harris, MD, FRSCC, Toronto, ON; Herb von Schroeder, MD, FRSCC, Toronto, ON; Christian Veillette, MD, MSc, FRSCC, Toronto, ON

1:58pm Discussion

CORS48 2:10pm
Chondrogenic Differentiation and Integration Within Cartilage Defects of Human Bone Marrow-Derived Mesenchymal Stromal Stem Cells Seeded on a Collagen Matrix: An Osteochondral Explant Model
Troy Bornes, MD, BSc, Edmonton, AB; Aillette Mulet-Sierra, MSc, Edmonton, AB; Leila Laour, PhD, Edmonton, AB; Nadr Jomha, MD, PhD, FRSCC, Edmonton, AB; Adetola Adeida, PhD, Edmonton, AB

CORS41 1:00pm
A Preclinical Assessment of Lithium to Enhance Fracture Healing
Joshua Berstein, MSc, Toronto, ON; Yufa Wang, MD, MSc, Toronto, ON; Ian Sigal, PhD, Pittsburgh, PA; Edwin Wong, BSc, Toronto, ON; Cari Whyne, PhD, Toronto, ON; Diane Nam, MD, MSc, Toronto, ON

CORS42 1:06pm
The Role of Mast Cells in Cortical Bone Regeneration
Dominique Behrends, MD, Montréal, QC; Michael Cheng, BSc candidate, Montréal, QC; Chan Gao, MD, Montréal, QC; Ailian Li, MD, Montréal, QC; Hui-fen Wang, MD, Montréal, QC; Michael Sullivan, BSc, Montréal, QC; Michael Wang, BSc, Montréal, QC; Janet Henderson, PhD, Montréal, QC; Paul Martineau, MD, FRSCC, ABOS, SCOSM, Montréal, QC
CORS49 2:16pm
The Calcium-Sensing Receptor in Health And Osteoarthritis
Troy Bornes, MD, BSc, Edmonton, AB; Alilette Mulet-Sierra, MSc, Edmonton, AB; Leila Laouar, PhD, Edmonton, AB; Nadir Jomha, MD, PhD, FRCS, Edmonton, AB; Adetola Adesida, PhD, Edmonton, AB

CORS50 2:22pm
Effect Of Link N On the Synthesis and Degradation of Matrix Proteins in Human Articular Osteoarthritic Cartilage
Motaz AlAqeel, MD, Montréal, QC; Michael Grant, PhD, Montréal, QC; Laura Epure, Eng MScA, Montréal, QC; Omar Salem, MD, Montréal, QC; Olga Huk, MD, MSc, Montréal, QC; John Antoniou, MD, PhD, Montréal, QC; Fackson Mwale, PhD, Montréal, QC

2:28pm Discussion

2:30pm–3:00pm Coffee Break in Exhibit Hall • 210D

3:00pm–4:30pm CORS/COA Symposium and Macnab Lecture • 513C
Collaborative Problem Solving the Key to Successful Innovation in Orthopaedics
Moderator: Michael Dunbar, Halifax, NS

A Collaborative Approach to Appropriateness in Knee Arthroplasty
Gillian A. Hawker, MD, MSc, FRCPc

The EOS Adventure: Making the Dream of 3D Spinal Assessment a Reality!
Stefan Parent, MD, FRCS, Montréal, QC

2013 Founders' Medal Award Winner
Biochemical Analyses of Osteoarthritic and Periprosthetic Synovial Fluid from Human Hip and Knee Joints
Leah Guenther, BSc, MSc, Winnipeg, MB; Eric R. Bohm, MD, B Eng, MSc, FRCS, Winnipeg, MB; Thomas Turgeon, MD, Winnipeg, MB; Tannin Schmidt, PhD, Calgary, AB; Jan Brandt, PhD, Winnipeg, MB

Ian Macnab Lecture
The Journey from Problem to Product: An Engineer's View of Working in the Medical Device Industry
Joshua Leon, PhD, FEC, PEng, Halifax, NS
The AOA’s Council of Orthopaedic Residency Directors (CORD) Conference

June 20-21, 2014

Palais des congrès de Montréal
Room 510A, Level 5

CORD Governing Committee Chair:
Robert S. Sterling, MD

CORD Education Committee Chair:
Samir Mehta, MD

The AOA recognizes the following CORD Conference sponsor:
Council of Orthopaedic Residency Directors (CORD) Program

The AOA's CORD program is dedicated to the promotion of excellence in Musculoskeletal Graduate Medical Education. CORD membership is held by institutions. All individuals within a member institution are considered affiliates of the AOA's CORD program and are invited to take part in CORD activities and events.

CORD Conference Agenda

Friday, June 20, 2014 • 510A

1:30pm–1:35pm Business Meeting and Announcements
Robert S. Sterling, MD; Chair, CORD Governing Committee
Johns Hopkins University

1:35pm–1:55pm Policy Development – Surgical Education
Cecil H. Rorabeck, OC, MD, FRCSC; Western University
Discussion/Questions

1:55pm–2:40pm Symposium I: Implementation and Initial Experience with Competency Based Orthopaedic Residency
Peter C. Ferguson, MD, MSc, FRCSC; University of Toronto
Discussion/Questions

2:40pm–3:20pm Symposium II: Basic Surgical Skills Curriculum Implementation
Moderator: M. Daniel Wongworawat, MD; Loma Linda University
Panelists:
Ranjan Gupta, MD; University of California - Irvine;
Ann E. Van Heest, MD; University of Minnesota;
Alex C. McLaren, MD; Banner Good Samaritan Medical Center
Discussion/Questions

3:20pm–4:00pm Symposium III: Impact of Resident/Faculty Generational Differences
Sandra Jarvis-Selinger, PhD; University of British Columbia
Discussion/Questions

4:00pm–4:15pm Break

4:15pm–5:00pm Small Group Discussion: Current Challenges and Successes
Facilitator: Sandra Jarvis-Selinger, PhD; University of British Columbia
• Bridging the Faculty/Resident Generational Difference
• Approaching Curriculum Development and Design
• Opportunities and Issues in Resident Assessment

5:00pm–5:30pm Small Group Report Back/Summary

Saturday, June 21, 2014 • 510A

7:00am–7:05am Opening Remarks
Robert S. Sterling, MD; Chair, CORD Governing Committee
Johns Hopkins University

7:05am–7:15am Best Practices
Milestones: Aggregated Data Methods
Brett Levine, MD, MS; Rush University Medical Center

7:15am–7:40am Open Forum
Topic areas to be discussed
• Specifics of Next Accreditation System (NAS)
• Milestone Implementation & Data Collection
• Reporting
Moderator: W. Timothy Brox, MD; UCSF Fresno Orthopaedics MEP

7:40am–8:20am Symposium IV: Funding of a Residency Program
Mathias P.G. Bostrom, MD; Hospital for Special Surgery
Discussion/Questions
Please proceed immediately to the AOA Annual Meeting General Session for the following symposia:

9:00am–10:30am

**Symposium 6:** Quality and Safety in Orthopaedics—Learning and Teaching at the Same Time • 210AB
Moderator: Kevin P. Black, MD; Penn State Milton S. Hershey Medical Center
Panelists: April D. Armstrong, MD, FRCSC; Penn State Milton S. Hershey Medical Center
Dwight W. Burney, III, MD; New Mexico Orthopaedic Associates

10:30am–10:45am

Break

10:45am–12:15pm

**Symposium 7:** Sufficient Competence to Enter the Unsupervised Practice of Medicine: What Is It, When Does It Occur, and Do We Know It When We See It? • 210AB
Moderator: Vincent D. Pellegrini, MD; Medical University of South Carolina
Panelists: Timothy W. R. Briggs, MD, MCh (Orth), FRCS; The Royal National Orthopaedic Hospital
Richard L. Cruess, MD, FRCSC; McGill University
Peter C. Ferguson MD, MSc, FRCSC; University of Toronto

Registration Required.
Attendees may register at the AOA/COA Combined Meeting registration desk on-site.

Cost:
All CORD Member Affiliates: $150 CAD per person
Non-CORD Member Affiliates: $350 CAD per person

CME
CME credits will be issued to CORD Conference registrants upon submission of the electronic evaluation.

This activity has been planned and implemented in accordance with the Essential Areas and policies of the Accreditation Council for Continuing Medical Education through the joint sponsorship of the American Academy of Orthopaedic Surgeons and the American Orthopaedic Association. The American Academy of Orthopaedic Surgeons is accredited by the ACCME to provide continuing medical education for physicians.

The American Academy of Orthopaedic Surgeons designates this live activity for a maximum of 6 **AMA PRA Category 1 Credits™**. Physicians should claim only the credit commensurate with the extent of their participation in the activity.
526 grants awarded in 16 cycles

Awards by category

- 68% Fellowship grants
- 25% Residency/General Education grants
- 7% Residency/Core Competency Innovation grants

“Education is expensive and sources for support are dwindling. Our fellowship program greatly appreciates the OMeGA grant.”
Fellowship grant recipient

“Our experience with OMeGA has been excellent. With the funds afforded to our institution we have completed a task that we hope will not only improve resident education but also improve patient care.”
Residency/general education grant recipient

We continue to search for additional funding so we can support all the meritorious programs that request but don’t receive a grant.

Visit www.omegamedicalgrants.org for more information.

Thank you to the following donors that make OMeGA grants possible:

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  Medtronic Spinal*
  Stryker

- Contributors
  Genentech

  *Additional thanks for advance commitment of 2015-2016 academic year support.

EXHIBITS

Wednesday, June 18: 7:00pm-9:00pm
Thursday, June 19: 9:00am-4:00pm
Friday, June 20: 9:00am-4:00pm

The Palais des congrès de Montréal
Exhibit Hall, Room 210D, Level 2

Please note the following:

A poster session and continental breakfast will take place for delegates from 6:30am-8:30am on Thursday, June 19 and Friday, June 20. Exhibiting companies may choose to have their booths available during these times.
Exhibits Floor Map

Floor Plan Diagram
### Table Top Exhibits

**Canadian Institute for Health Information (CIHI) – Table 1**  
Toronto, ON  
T 416-481-2002  
www.cihi.ca

The Canadian Institute for Health Information leads the development and maintenance of comprehensive and integrated health information that enables sound policy and effective health system management that improves health and health care. The Canadian Joint Replacement Registry (CJRR) was established in 2001 and collects data on hip and knee replacement procedures and prosthesis information across the country. The CJRR was developed through a joint effort between CIHI and the Canadian Orthopaedic Association and its goal is to provide information that will lead to improvements in the quality of care and clinical outcomes of joint replacement recipients. The CJRR currently contains over 400,000 records and reporting is now mandated in Ontario, British Columbia and Manitoba. The CJRR program supports 400 data providers that include surgeons, hospitals, regional health authorities and provincial ministries and has products and services that include annual reports, data quality reports, in-depth analytical reports and custom data requests.

**Lippincott Williams & Wilkins – Table 2**  
Novi, MI  
T 248-349-1754  
www.LWW.com

Wolters Kluwer is a leading publisher of Medical information including the popular series, Masters Techniques in Orthopedic Surgery.

**American Association of Hip and Knee Surgeons (AAHKS) – Table 3**  
Rosemont, IL  
T 847-698-1200  
www.aaahks.org

Established in 1991, the American Association of Hip and Knee Surgeons (AAHKS) has grown to become the essential organization of hip and knee specialists. Our mission is to provide leadership in education, advocacy and research to achieve excellence in hip and knee patient care. Our vision is to be the essential organization of hip and knee specialists, functioning to serve the needs of patients, care providers and policy makers regarding hip and knee health.

### Booth Exhibits

**OrthoEvidence – Table 4**  
Burlington, ON  
T 289-337-5717  
www.myorthoevidence.com

OrthoEvidence (www.myorthoevidence.com) is the first orthopaedic-focused evidence-based summary provider; built for the orthopaedic community by experts in the field. The resource uses a rigorous and transparent multi-step process to review, evaluate and summarize research studies, providing the critical implications to practitioners in a fraction of time. Our innovative format - the Advanced Clinical Evidence (ACE) Report - presents the information in an efficient manner, providing a critical appraisal that is easy to digest. OrthoEvidence’s repository includes over 2,400 ACE reports of articles from over 60 leading journals in orthopaedics and is expanding rapidly, with over 100 new reports added monthly. Let OrthoEvidence be your clinical resource for evidence-based orthopaedics. Sign up today through our partnership with the COA.

**Accuro®EMR - Booth 1005**  
Kelowna, BC  
T 866-454-4681  
www.QHRtechnologies.com

Accuro is a suite of medical software modules that provides computer-based medical records for Specialist, Primary Care, and Allied Health Professionals, as well as administrative modules for billing and patient scheduling.
Hemosep is a hemoconcentration technology that produces a blood concentrate in all cell species, maintaining not only the RBC's but preserving the platelets, WBC's and clotting residuals and does not require centrifugation and associated blood transfer steps and can be utilized without the need for highly trained technical personnel. Hemosep is a membrane controlled super absorber driven plasma removal process. This process is carried out entirely in one vessel and requires no additional blood transfer steps or flushing procedures. In essence the Hemosep device is a one-stop hemoconcentration process for concentrating residual blood from the blood reservoir during surgery. Residual blood is introduced into the device, concentrated using the membrane controlled superabsorber process, and transfused back to the patient using a transfer bag, saving all cell species. Additional benefits to the technology is that it produces a gelatinous waste product, essentially plasma in a gel matrix which is safer and easier to dispose of.
Since 1974, more than ten million ceramic BIOLOX® ball heads and BIOLOX® cup inserts have been used in total hip replacements. Components from BIOLOX® material are also used in total knee replacements, and shoulder implants will be introduced.

CeramTec GmbH, the global market leader for bioceramics in joint replacement, is also an internationally leading supplier of innovative technical ceramics for the electronics, telecommunications, automotive, medical, machinery, metal, electrical and chemical industries, developed, produced and distributed by 3600 employees worldwide.

BIOLOX® ceramics worldwide have been successful for 40 years. For very good reasons:

- Excellent biocompatibility
- Significantly low taper corrosion
- No metal ion release
- No known pathogenic reaction of particles
- Also available for revision

Citagenix Inc. is a leader in the rapidly growing orthobiologics market, providing surgeons with innovative products for bone regeneration. Citagenix provides traditional grafts such as structural and sports allografts as well as innovative grafting solutions like DBM putties, gels and sponges and synthetic options.

ConMed Linvatec Canada is a global medical technology company that specializes in the development and sale of surgical and patient monitoring products and services that allow our physician customers to deliver high quality care and as a result, enhanced clinical outcomes for their patients. With products that are recognized as technological leaders by the specialties they serve, caregivers within the Orthopedic, Sports Medicine, General Surgery, Gynecology, Gastroenterology, Pulmonology, and Anesthesiology markets have come to value the CONMED name across the world. Our broad portfolio focuses on the needs and wants of specific specialties while coming together at the point of care delivery to offer our customers the power of choice and the power of convenience.
Exhibits

DePuy Synthes Canada - Booth 701
Markham, ON
T 905-946-3052
www.synthes.com

DJO Canada Inc - Booth 816
Mississauga, ON
T 866-866-5031 x 2940
www.djoglobal.com

DJO is a leading global medical device company providing solutions for musculoskeletal and vascular health, and pain management. The Company’s products help patients prevent injuries or rehabilitate after surgery, injury or degenerative disease. DJO’s brands include Aircast®, DonJoy®, ProCare®, CMF™, Empi®, Saunders®, Chattanooga Group™, DJO Surgical, Cefar®-Compex® and Ormed®.

EOS Imaging - Booth 1014
Montreal, QC
T 514-875-0030
www.eos-imaging.com

EOS imaging designs, develops, and markets EOS®, a medical imaging system dedicated to musculoskeletal pathologies: in particular the hip, knee, spine and the orthopaedic surgeries associated.

The system combines a Nobel Prize-winning low dose X-ray detector and proprietary software technology that produces 3D modeling of the patient bones from just 2 radiographs. EOS enables whole body frontal and lateral images acquired simultaneously in a natural standing or seated position with very low radiation dose and no compromise on image quality.

In less than 20 seconds, two full body digital radiographs are taken. From these 2 images, a 3D bone envelope can then be obtained together with a dataset of precise 3D anatomical information, opening the way to advanced therapeutic planning and control of orthopaedic treatments.

Exactech Canada – Booth 916
Caledonia, ON
T 905-765-1117
www.exac.com

For more than 25 years, orthopaedic surgeons have counted on Exactech innovations to make patients more mobile. Founded by an orthopaedic surgeon and biomedical engineer, Exactech has a unique perspective on customer needs from the exam room to the operating room to the board room. Innovative hip, knee, shoulder and spine implants, instrument systems and biologic solutions are designed to improve patient outcomes. A U.S. manufacturer, Exactech products are distributed in more than 35 countries.

GCS Medical Inc. - Booth 1017
Montreal, QC
T 514-667-2051
www.gcs-medical.com

Founded in Sherbrooke, Quebec in 2011, GCS Medical designs, manufactures and markets medical devices designed to facilitate the work of hospital staff during orthopaedic surgeries. The founders, Guillaume and Charles, are passionate entrepreneurs who developed a novel limb positioner mainly used for shoulder, knee and ankle surgeries: the AssistArm.

Now based in Montreal, the two entrepreneurs benefit from a highly experienced network of partners and collaborators, to further develop the business and marketing of the AssistArm.

GE Healthcare – Booth 922
Mississauga, ON
T 416-271-4510
www.gehealthcare.com

GE Healthcare provides transformational medical technologies and services that are shaping a new age of patient care. Our broad expertise in medical imaging and information technologies, medical diagnostics, patient monitoring systems, drug discovery, biopharmaceutical manufacturing technologies, performance improvement and performance solutions services help our customers to deliver better care to more people around the world at a lower cost.

GE Soins de santé propose des services et des technologies médicales transformationnelles qui préparent un nouveau modèle de soins aux malades. Notre vaste expertise en imagerie médicale et en technologies de l’information, diagnostic médical, systèmes de surveillance des malades, découverte de médicaments, technologies de fabrication biopharmaceutiques, amélioration du rendement et services de solutions pour la performance aide nos clients à fournir de meilleurs soins à plus de gens partout sur la planète et ce, à moindre coût.

Hema-Quebec - Booth 814
Saint-Laurent, QC
T 514-832-5000 x 238
www.hema-quebec.qc.ca

Héma-Québec’s mission is to efficiently provide adequate quantities of safe, optimal human tissues to meet the needs of all Quebeckers; to provide and develop expertise along with specialized and innovative services and products in the field of human tissue transplantation.
The human tissues produced by Héma-Québec are frozen conventional base allograft bone, frozen and cancellous bone, frozen sports medicine products, cryopreserved cardiac products, cryopreserved skin products and ocular products.

Héma-Québec is accredited by Health Canada (Regulations respecting the safety of human cells, tissues and organs for transplantation) and the American Association of Tissue Banks.

**Hologic Inc. - Booth 700**
Bedford, MA
T 781-999-7300
www.hologic.com

Hologic is a leading developer, manufacturer and supplier of premium diagnostic and medical imaging systems. Hologic's Skeletal Health Solutions presents the next generation of mini C-arm systems, the Fluoroscan® InSight-FD with flat detector technology. Its exclusive rotating detector and collimator tailor the exam to specific patients, combining tremendous maneuverability, ultra-fine low-dose fluoroscopy images, and automated adjustments that deliver superb, high resolution images. With the greatest range of motion, and an innovative mini C-arm design for improved patient/surgeon access, this system is meant to meet the demands of all physicians. For more information, visit www.fluoroscan.com.

**Innovative Medical Products, Inc. - Booth 1001**
Plainville, CT
T 860-793-0391
www.innovativemedical.com

**Integra canada - Booth 717**
Burlington, ON
T 604-3532971
www.Integralife.com

**KCI Medical Canada Inc. - Booth 1015**
Mississauga, ON
T 800-668-5403
www.kci-medical.com

**Maquet - Booth 702**
Markham, ON
T 905-752 3300 x 370
www.maquet-dynamed.com

**Medacta Canada - Booth 1011**
Kitchener, ON
T 514-755-3396
www.medacta.com

Welcome to Medacta International Swiss Company, a global partner. The mission of our Group is to allow patients to regain a healthier and more active lifestyle through products and services which make surgery and rehabilitation faster, more effective and less painful.

**MedQuest Medical Inc. - Booth 1019**
Ingersoll, ON
T 888-864-4442
www.medquestmedical.com

MEDQUEST MEDICAL INC. is proud to be the Exclusive Canadian Distributor for Orthofix. Orthofix is a diversified, global medical device company focused on developing and delivering innovative repair and regenerative solutions to orthopedic markets. Key products are non-invasive stimulation products used to enhance the clinical outcomes of non-union fracture treatments, external and internal fixation devices, limb lengthening and bone reconstruction, as well as, viable stem cell bone regenerative solutions. Collaborative and licensing agreements include organizations such as the Texas Scottish Rite Hospital for Children, which was recently ranked #2 on the U.S. News and World Report list of the nation’s best pediatric orthopedic programs. All products are designed to address the lifelong bone-and-joint health needs of patients of all ages, helping them to achieve a more active lifestyle and mobility. Research and Development continue to drive a distinguished history of product accomplishment.

**Medtronic - Booth 1023**
Brampton, ON
T 905-460-3616
www.medtronic.com

Medtronic of Canada Ltd. is a trusted Canadian leader delivering innovative health system solution and advanced medical technologies to alleviate pain, restore health, and extend life in the areas of cardiovascular medicine, diabetes, spinal and neurosurgery, and ear, nose and throat surgery. Medtronic is proud to employ more than 700 Canadians, and be recognized as one of Canada’s Great Place to Work® Top 50. Headquartered in Brampton, Ontario, Medtronic has regional offices in Vancouver and Montreal, including a manufacturing facility, Medtronic CryoCath, located in Pointe-Claire, Quebec.

**MicroPort Orthopedics - Booth 825**
Arlington, TN
T 901-867-4681
www.ortho.microport.com
Olympus Canada Inc. - Booth 715
Richmond Hill, ON
T 289-269-0100
www.olympuscanada.com

Olympus develops leading edge technology for health care professionals that help improve outcomes and enhance quality of life for patients. At COA/AOA, Olympus will exhibit the new true High Definition series of video platforms; the Visera Elite Surgical/Orthopedic video system and the Exera III Universal Video system.

Olympus offers industry leading image quality with our highly rated arthroscopes, cameraheads, video processors and monitors. Olympus allows you the flexibility to select the best video system for your needs, while allowing you to source your pumps and shavers from your preferred vendor. Olympus is able to provide additional value through outstanding image quality and unmatched modularity. Whether performing an Arthroscopy, 3D laparoscopy or Flexible Endoscopy, Olympus Universal tower is able to grow with your future video requirements.

Orthopaedic Market Communications - Booth 1013
Milton, ON
T 905-736-0467
www.orthograndrounds.com

Orthopaedic Market Communications Inc. (OMC) provides innovative communication strategies to the orthopaedic marketplace. OMC’s newest initiative, Orthograndrounds.com, is a social media site built exclusively for orthopaedic surgeon members to connect as a community of professionals.

Beyond connecting as a community, Orthograndrounds.com offers avenues for surgeon members to communicate in static and dynamic environments directly with orthopaedic companies to stay current on product offerings from what’s new in the areas of primary and revision implants to trauma to sports medicine to biologics and other tertiary orthopaedic product categories in the marketplace.

OMC via Orthograndrounds.com strives to promote patient centred care by connecting surgeon members together as well as creating innovative ways for surgeon members to reach out and communicate directly with orthopaedic companies.

OrthoScan - Booth 1018
Scottsdale, AZ
T 480-503-8010
www.orthoscan.com

Based in Scottsdale, Arizona, OrthoScan is a company dedicated to setting a new standard in orthopaedic imaging. OrthoScan presents the OrthoScan HD with Flat Detector – OR, a mini c-arm for the surgical setting with a unique Flat-Form design that provides optimal anatomical positioning and increased arc workspace. This new mini c-arm offers a 60 degree over-rotational range to acquire preferred views without stressing the anatomy; surgical LED lights to reduce shadows in the surgical field and illuminate anatomical detail; and bilateral controls conveniently located on both sides of the tube head assembly.

Designed for the office setting, the OrthoScan Mobile DI provides digital diagnostic imaging and fluoroscopy in a self contained unit weighing approximately 35 pounds. The portability of Mobile DI provides ease of movement between patient rooms and clinics. Mobile DI provides connectivity to PACS and EMR, as well as an optional tablet viewing interface.

Össur Canada Inc. - Booth 704
Richmond, BC
T 604-241-8152
www.ossur.com

Össur is a non-invasive orthopaedics company that offers effective bracing options. Össur OA Solutions includes the Unloader® brand name with osteoarthritis bracing designed to reduce pain and improve mobility. Össur Injury Solutions contains the CTi®, Rebound®, Miami® and Innovator® brand names that assist healing and improve people’s quality of life.

Ostek Orthopaedics Inc. - Booth 1016
Oakville, ON
T 905-827-8288
www.ostek.ca

Pega Medical - Booth 719
Laval, QC
T 877-739-5175
www.pegamedical.com

Pega Medical is a well established Canadian bioengineering service and manufacturing company providing engineering solutions to OEMs throughout Europe, Asia, North and South America and commercializing Pediatric Orthopedic devices in over 50 countries around the globe. Awarded Company of the year in 2010 as New Exporter, one of Pega’s star products, the Fassier-Duval telescopic IM system has recently been listed among the top five medical inventions developed in Quebec in the past 35 years.
Guided growth and minimally invasive deformity correction are the paradigms for all technological advances at Pega Medical. Orthopedic implants that grow with the patient which are specifically design for the pediatric patient instead of a “scale-down” version of adult implants, makes the difference between a successful treatment of a condition versus carrying the problem forward until the patient reaches adulthood.


Pendopharm - Booth 819
Montreal, QC
T 514-340-9800
www.pendopharm.com

PENDOPHARM is a Canadian specialty pharmaceutical company that brings you proven medicines that your patients can rely on. Our experienced team is here to support the medical community, patients and partners. We are committed to being creative and flexible, to develop long-lasting relationships and build strong brands.

A Strong Focus on Specialty Medicines

Monovisc, a next generation viscosuplement treatment, has recently been added to the PENDOPHARM portfolio. By developing partnerships with patients and Health Care Professionals, we are deploying resources to meet the needs of Canadian patients who suffer from osteoarthritis knee pain.

Sanofi - Booth 615
Laval, QC
T 514-331-9220
www.sanofi.ca

Synvisc-One® by Sanofi

Synvisc-One (hylan G-F 20) is a viscosupplement injection for osteoarthritis of the knee. Made from a natural substance that lubricates and cushions your joint, Synvisc-One can provide knee pain relief and improved mobility over 6 months with just one simple injection.

Smith & Nephew Inc. - Booth 925
Mississauga, ON
T 800-387-5263 x 6512
www.smith-nephew.com

For over 150 years, Smith & Nephew has developed advanced medical devices for healthcare professionals around the world. Our pioneering technologies enable nurses, surgeons and other medical practitioners to provide effective treatment more quickly and economically.

Smith & Nephew operates in high growth markets driven by aging demographics and technology’s ability to enable patients to live longer and enjoy more active lives. With the help of our innovative equipment, patients enjoy improved mobility and rapid recovery from surgery.

Hip, Knee, Trauma, Extremities, Endoscopy, Advanced Wound Management.

Stryker Canada - Booth 901
Hamilton, ON
T 905-690-5700 x 2268
www.stryker.com

Stryker is one of the world’s leading medical technology companies and together with our customers, we are driven to make healthcare better. The Company offers a diverse array of innovative medical technologies, including reconstructive, medical and surgical, and neurotechnology and spine products to help people lead more active and more satisfying lives. Stryker products and services are available in over 100 countries.

We believe that broadening the surgeons’ experience and knowledge through the latest educational programs and technologies will help Stryker to continue improving the lives of patients and healthcare professionals worldwide. Our goal is to develop meaningful learning opportunities that meet the unique needs of healthcare professionals at every stage of their career.

Tornier Orthopedics Inc - Booth 918
Mississauga, ON
T 905-795-3900
www.tornier.com

Tornier is a global medical device company intently focused on surgeons that treat musculoskeletal injuries and disorders of the shoulder, elbow, hand, wrist, ankle and foot. We call these surgeons extremity specialists. When we say Tornier is an organization of “specialists serving specialists” it refers to our continuous level of support for these surgeons. In certain international markets, Tornier also offers joint replacement products for the hip and knee. Founded in the 1940’s, Tornier currently sells over 90 product lines in approximately 45 countries, backed by the efforts of more than 1100 employees worldwide.

Tribe Medical Group Inc. - Booth 909
London, ON
T 519-680-0707
www.tribemedical.com
Wright Medical Technology Canada Ltd. - Booth 824
Mississauga, ON
T 905-826-1600
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Wright is a focused, specialty orthopaedic company that provides extremity and biologic solutions that enable clinicians to alleviate pain and restore their patients’ lifestyles. We are the recognized leader of surgical solutions for the foot and ankle market, and our new theme line – FOCUSED EXCELLENCE – captures the excitement of the transformation we have just completed.

Wright’s product offerings include extremity implants for the foot, ankle, hand, elbow, and shoulder. We also offer both synthetic and tissue-based bone graft substitute materials.

Headquartered in Memphis, Tennessee, Wright and has approximately 700 employees globally, with the Canadian office situated in Mississauga, Ontario.

Zimmer of Canada Ltd - Booth 801
Mississauga, ON
T 905-567-3110
www.zimmer.com

Founded in 1927 and headquartered in Warsaw, Indiana, Zimmer designs, develops, manufactures and markets orthopaedic reconstructive, spinal and trauma devices, dental implants, and related surgical products. Zimmer has operations in more than 25 countries around the world and sells products in more than 100 countries. Zimmer’s 2013 sales were more than $4.6 billion. The Company is supported by the efforts of more than 9,000 employees worldwide.

AOA members are generous with their resources

The AOA thanks those individuals who unfailingly demonstrate financial commitment to the organization, year in and year out. Lifetime Giving recognition honors those donors who have made significant contributions throughout their association with the AOA, either directly or through OREF. These individuals “walk the walk” and their leadership has truly helped the AOA to guide the future of musculoskeletal care.

For 2014, please join us to recognize

**Champion ($75,000-$99,999)**
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Joseph D. Zuckerman, MD

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Todd J. Albert, MD
Michael A. Simon, MD

*Strive to join this august group*

Remember, 100% of your donation made directly to the AOA supports the program(s) you designate.

Donations can be made to the AOA through mail, fax, or online at [www.aoassn.org](http://www.aoassn.org), or through OREF.
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Warren R. Kadrmas, MD, Fort Sam Houston, TX
Jay D. Keener, MD, St. Louis, MO
Sameh A. Labib, MD, Atlanta, GA
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Steven J. Lee, MD, New York, NY
Zhongyu John Li, MD, Winston-Salem, NC
Gregory B. Maletis, MD, Baldwin Park, CA
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- Alan Getgood (ON)
- Michelle Ghert (ON)
- Virginie Pollett (MB)

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**Nouveaux membres affiliés du milieu de la recherche**
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- Ammar Al Khudairy
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- Abdulaziz Almaawi (ON)
- Khaled Al Mansoori (ON)
- Khalid Alsheikh (QC)
- Traian Amzica (QC)
- Mitch Armstrong (ON)
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- Kamal Bali (ON)
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- Troy Bournes (AB)
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- Philippe Hugo Champagne (QC)
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- Zhebin Hu (QC)
- Paul Jamieson (ON)
- Chad Johnson (BC)
- Denis Joly (AB)
- Mara Jones (ON)
- Adam Katchky (ON)
- Ryan Katchky (ON)
- Laura Kember (ON)
- Paul Kelly (NL)
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- Adrian Kurz (ON)
- Marc-André LeBlanc (QC)
- Marie-Claude Leblanc (QC)
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