Lake Louise Tandem MS Workshop Program



November 29 to December 2, 2023

Fairmont Chateau Lake Louise 111 Lake Louise Drive Lake Louise, AB, Canada

Welcome to the Lake Louise Tandem MS Workshop

Dear Colleagues,

Welcome to the 35th edition of the Tandem MS Workshop. We hope that you will enjoy the presentations and the social events we have organized for you this year. Held annually at the Fairmont Chateau Lake Louise, Lake Louise, the workshop focuses on scientific exchange and dissemination of technical aspects of tandem mass spectrometry.



35th Annual Tandem Mass Spectrometry Workshop

General Information

Registration

Registration Opens on Wednesday, November 29 at 16:00 in the Victoria Ballroom Foyer. Please come to pickup your packages and badges.

Posters

Poster presenters should have their posters up by 20:00, Wednesday, November 29. Posters must be taken down by noon on Friday, December 1.

Meals

Please note: If you order beverages other than tea or coffee at <u>ANY</u> meal, you will be charged. If anyone has special dietary requirements, please contact Janette Champ, if you have not already done so. Vouchers are available for lunches on Friday and Saturday for those wishing to ski or hike. Please obtain the Lunch-to-Go Vouchers <u>at dinner the night before.</u> Vouchers are to be used at the Chateau Deli located in the Lobby of the Hotel. If you take a voucher, you may NOT join in the sit-down lunch as well.

Wednesday, November 29

- 16:00 to 19:00 <u>Meet & Greet</u> Pickup program package, name tags, drink tickets *Victoria Ballroom Foyer*
- 18:00 to 19:30 <u>Networking Reception</u> Victoria Ballroom Foyer
- 19:30 to 23:00 <u>Dinner</u> Victoria Ballroom
- 20:25 Introductory Remarks: *Lars Konermann*, The University of Western Ontario, London, ON, Canada
- 20:30 to 21:15 *Plenary Lecture Victoria Ballroom John Yates*, The Scripps Research Institute, La Jolla, CA *How a single mutation in CFTR causes the systemic disease Cystic Fibrosis: Interactions, PTMs, Structure*

Thursday, November 30

| 07:00 | <u>Breakfast</u> Louiza, Lower Level | | |
|---------------|---|---------------|------------|
| 07:30 | Registration Opens for Late Badge Pickup Victoria Ballroom Foyer | | |
| 08:00 to 9:40 | <u>Fourier Transforms and Tandem Mass Spectrometry</u> Chair: <i>Jonathan Amster</i> , University of Georgia, Georgia, USA | | |
| 08:00 | Kathrin Breuker, University of Innsbruck, Innsbruck, Austria Native top-down MS of RNA-ligand complexes for binding site mapping | | |
| 08:25 | <i>Ljiljana Paša-Tolić</i> , Pacific Northwest National Laboratory, Richmond, Washington, USA Advancing spatial and cellular omics with FTMS | | |
| 08:50 | Peter O'Connor, University of Warwick, UK Two-Dimensional Mass Spectrometry | | |
| 09:15 | <i>Evan Williams</i> , University of California, Berkeley, California, USA Rapid Protein Melting and Aggregation Measured with Laser Heating Mass Spectrometry | | |
| 09:40 | Discussion & Coffee Break Victoria Ballroom | Sponsored by: | SCIENTIFIC |

Thursday, November 30, cont.

| 10:10 to 12:10 | <u>Proteins, Part I</u> Chair: Erin Baker, The University of North Carolina at Chapel Hill | | |
|----------------|---|--|--|
| 10:10 | Siavash Vahidi, Bradley T.V. Davis, Algirdaz Velyvis, University of Guelph, Guelph, Canada Fluorinated ethyl amines as electdrospray-compatible neutral pH buffers for native mass spectrometry. Sponsored by: Waters™ | | |
| 10:30 | Ian Webb, Rebecca Cain, Melanie Cheung See Kit, Tyler Cropley, Frank Sobott, Christopher Chouinard, Christian Bleiholder, Indiana University, Indianapolis, United States Mass Spectrometric Characterization of Chemically and Natively Unfolded Proteins | | |
| 10:50 | Steffen Lindert, Ohio State University, Columbus, USA Computational Protein Structure Prediction from Mass Spectrometry Data | | |
| 11:10 | Madison Turner, Samuel E. Hoff; Adwaith B. Uday; Algirdas Velyvis; Natalie Zeytuni; Massimiliano Bonomi; Siavash Vahidi, University of Guelph, Ontario Canada; Mapping Allosteric Pathways in the M. tuberculosis 20S Proteasome Core Particle using HDX- | | |
| | MS Sponsored by: Waters [™] | | |
| 11:30 | <i>Michael Bowers,</i> Xikun Liu, Yingying Jin, Steven Burattto, UCSB, California, USA Mechanisms of Assembly, Crosstalk and Therapeutic Agents in Amyloid Diseases | | |
| 11:50 | <i>Francisco Fernandez Lima, Florida International University,</i> Miami, United States <i>Top Down strategies using complementary HDX, TIMS, and ECD/UVPD MS/MS</i> | | |
| 12:10 | Discussion & Group Photo | | |
| 12:30 to 14:00 | Lunch Fairview Dining Room | | |
| 14:00 to 15:40 | <u>MS/MS "Omics" Applications</u> Chair: <i>Peter Verhaert,</i> ProteoFormiX BV | | |
| 14:00 | <i>Brett Larsen,</i> ThermoFisher <i>Orbitrap Astral - Rethink what is possible</i> | | |
| 14:20 | <i>Lekha Sleno,</i> UQAM, Montreal, Canada Combining targeted and untargeted workflows and correlation analysis for metabolomics studies | | |
| 14:40 | <i>Margret Thorsteinsdottir,</i> University of Iceland, Reykjavik, Iceland Discovery of novel biomarkers for early breast cancer diagnosis using targeted proteomics | | |
| 15:00 | <i>Cate Simmermaker,</i> Karen E. Yannell, Genevieve C. Van de Bittner, and Philip L. Lorenzi, Agilent Technologies, Santa Clara, United States End to End Multiomics Analysis for Biological Insights | | |
| 15:20 | <i>Tao Huan,</i> University of British Columbia, Vancouver, Canada Addressing big data challenges in MS-based metabolomics | | |
| 15:40 | <u>Discussion & Coffee Break</u> Victoria Ballroom | | |

Thursday, November 30, cont.

| 16:10 to 17:30 | <u>Nonpolar Molecules: Lipids and Metabolites</u> Chair: <i>Jeff Smith,</i> Carleton University | |
|----------------|--|--|
| 16:10 | <i>Victor Ryzhov</i> , K. Parker, R. King, R. A. J. O'Hair, A. Canty, Northern Illinois University, DeKalb, United States Studying C-H and C-C activation of cyclohexane catalyzed by transition metal complexes in the gas phase | |
| 16:30 | Jian Yu, Manasa Ramachandra, Haidy Metwally, Jennifer Kolwich, Hailey A. Tomm, Martin Kaufmann, Rachel Klotz, Chang Liu, J. C. Yves LeBlanc, Thomas R. Covey, Avena C. Ross, Richard D. Oleschuk, Queen's University, Kingston, Ontario, Canada From rapid spatial profiling to precise structural elucidation: Mass spectrometry based microbial metabolome analysis Winner of a CSMS Travel Award | |
| 16:50 | Tingting Yan , Zhongling Liang, Boone Prentice, University of Florida, Florida, USA Characterization of Phosphatidylcholine Structures Using Collisional Induced Dissociation/ Electron Induced Dissociation (CID/EID) Winner of the Marg Northcott Lake Louise Travel Award | |
| 17:10 | Alexandria Van Grouw, Markace A. Rainey, Molly E. Ogle, Johnna Temenoff, Samuel G. Moore, Facundo M. Fernandez, Georgia Institute of Technology, Atlanta, Georgia, USA A Machine Learning Approach for Semi-Quantitative Non-targeted Lipidomics Winner of a Lake Louise Travel Award | |
| 17:30 | Discussion | |
| 18:00 to 19:15 | <u>Dinner</u> Fairview Dinning Room | |
| | PICK UP LUNCH-TO-GO VOUCHERS. Please ask a server | |
| 19:30 to 20:55 | <u>Proteomics</u> Chair: <i>Derek Wilson, York University</i> | |
| 19:30 | <i>Christoph Borchers</i> , McGill University / Lady Davis Institute, Montreal, QC Using multiple structural proteomics approaches to characterize drug binding sites in proteins | |
| | Winner of the CSMS Fred Lossing Award Sponsored by: Agilent | |
| 19:55 | Jennifer Van Eyk, Cedars-Sinai Medical Cetner, Los Angeles, USA Can single cell proteomics help with precision health? | |
| 20:15 | Olivier Julien, University of Alberta, Edmonton, Canada Characterizing post-translational modifications during viral infections | |
| 20:35 | Antoine Dufour, Julian Wolf, Young Joo Sun, Jennifer T Vu, Elena Wang, Alexander G Bassuk MD, Vinit B Mahajan, University of Calgary, Calgary, Canada Liquid biopsy proteomics combined with artificial intelligence identifies the cellular drivers of eye aging and disease in vivo | |

20:55 Discussion

Thursday, November 30 Poster Session

21:00 to 23:00 Authors are asked to be present until 23:00

Michael Andersen, *Nicolai Bache, Dorte Bekker-Jensen, Magnus Huusfeldt, Evosep, Odense C, Denmark End-to-end automated, LC-MS sample separation workflows improves throughput and reproducibility*

Sedigheh Barzegar, *Randy Purves, Anas El-Aneed, College of Pharmacy and Nutrition, University of Saskatchewan, Saskatoon, Canada Modernizing LC-MS methods for detection of veterinary drug residues.*

Vimanda Chow, Cristina Lento, Derek J Wilson, York University, Mississauga, Canada Using membrane mimics (nanodiscs) to understand the structural and conformational dynamics of membrane proteins by TRESI-HDX-MS

Emma Finch, Michel, D., Adamko, D., El-Aneed, A., University of Saskatchewan, Saskatoon, Canada Comparison of Normalization Approaches in Targeted Urine Metabolomics, The Use of 'Total' Metabolome vs Creatinine

Christian Ieritano, *Patrick Thomas, W. Scott Hopkins*, University of Waterloo, Bolton, Canada Argentination: A Silver Bullet for Cannabinoid Separation by Differential Mobility Spectrometry

Oleg Krokhin, Darien Yeung, Quinn Neale, Ying Lao, Vic Spicer, University of Manitoba, Winnipeg, Canada Reversed-phase HPLC behaviour of post-translationally modified peptides in bottom-up proteomic experiments

Jocky Kung, Tomislav Damjanović, Thomas Kierspel, Charlotte Uetrecht, Centre for Structural Systems Biology, Hamburg, Germany

Mass Spectrometry as Sample Delivery Platform for Single-Particle Imaging with X-rays and Related Experiments

Maggy Lépine, Marie-Claude Robert and Lekha Sleno, University of Quebec in Montreal, Montreal, Canada Potential diagnostic biomarkers of Sjögren's syndrome from targeted tear proteomics

X. Chris Le, Tetiana Davydiuk, Karen Hoy, Chester Lau, Qingqing Liu, Xiufen Lu, Hanyong Peng, Michael Weinfeld, Xiaowen Yan, University of Alberta, Edmonton, Canada Mass spectrometry enabling environmental health studies of arsenic

Tsun Hei Arthur E. Lee, Josh Featherstone, Jonathan K. Martens, Terrance B. McMahon, W. Scott Hopkins, University of Waterloo, Waterloo, Canada Novel Unimolecular Dissociation of Fluorinated Propionic Acids

Cristina Lento, Joseph Anacleto, Ayesha Maqsood, Derek J. Wilson, York University, Toronto, Canada An Improved Apparatus with On-Line Chromatography for Hydrogen Deuterium Exchange Mass Spectrometry Measurements from Milliseconds to Hours

Xing-Fang Li, Qiming Shen, Di Zhang, and Nicholas Wawryk, University of Alberta, Edmonton, Canada Nontargeted analysis of organic amines in water

Paul Mayer, Bethany Lowe, Andras Bodi, University Of Ottawa, Ottawa, Canada What a Difference a Chlorine Makes: The Remarkably Different Unimolecular Ion Chemistry of Phenyl Formate and Chloroformate

Thursday, November 30 Poster Session, cont.

Benjamin Muselius, Dr. Jennifer Geddes-McAlister, Dr. Arnaud Droit, Florence Roux-Dalvai, University of Guelph, Guelph, Canada Harnessing tandem mass spectrometry-based proteomics to construct a C. neoformans organ atlas

Oluwaseun Ogunniyi, *Radwa Mahmoud, Amir Khajavinia, Deborah Michel, Changiz Taghibiglou and Anas El-Aneed,* University of Saskatchewan, Saskatoon, Canada Development of Novel LC-MS Method to Detect INDIP, a Novel Peptide for Acne Treatment.

Boone Prentice, University of Florida, Gainesville, USA *High chemical resolution imaging mass spectrometry using gas-phase ion/ion reactions*

Christof Rampitsch, Slavica Djuric-Ciganovic, AAFC; Mei Huang, AAFC; Zhen Yao, AAFC; Mark Lubberts, AAFC (Summerland); Peter Verhaert, Proteoformix, Beerse, Belgium, Molecular Genetics, Morden, Canada N-terminal peptidome enrichment and top-down peptidomics identifies potentially novel endogenous rust peptides

Chris Ryan, *Nazdrajic E., Hopkins W. S.*, University of Waterloo, Waterloo, Canada Novel Separation Method of PFAS via 2-Dimensional LCxDMS

David Schriemer, Frantisek Filandr, Vladimir Sarpe, University of Calgary, Chestermere, Canada Full automation of HX-MS data analysis

Pablo Scrosati, Lars Konermann, The University of Western Ontario, London, Canada Peptide Retention Time Prediction in Reversed-Phase Liquid Chromatography by Molecular Dynamics Simulations

Cailum Stienstra, *Chris Ryan, Justine Bissonette, W. Scott Hopkins*, University of Waterloo, Waterloo, Canada Improved Prediction of Dispersion Curves using Recurrent Neural Networks (RNNs)

Peter Verhaert, Maureen Feucherolles, Gilles Frache, ProteoFormiX BV, Vorselaar, Belgium Pushing the limits of atmospheric pressure MALDI MS histochemistry on high-resolution Orbitrap mass spectrometers for FFPE biobanked tissue analysis

Benjamin Warnes, Jasmine Chihabi, Jeffrey Manthorpe, Carleton University, Ottawa, Canada Unveiling the Power of Negative Ion Mode ESI-MS: Identifying Species with Remarkable Signal Intensity and Collisional Stability

Oriana Zambito, Nejia Lassoued, Rodolphe Soret, Nicolas Pilon, Lekha Sleno, UQAM, Montreal, Canada Studying the metabolome and proteome of colon and fecal samples using untargeted LC-MS/MS

Chad Weisbrod, Jesse D. Canterbury, John P. Quinn, Lissa C. Anderson, Amy M. McKenna, Greg T. Blakney, Dan McIntosh, Michael W. Senko, Christopher L. Hendrickson, NHMFL, Tallahassee, United States A novel quaternary hybrid Q-Orbitrap-IT-FT-ICR mass spectrometry platform

Christian Rosales, Krysten L. Sheedy, Karl V. Wasslen, Jeffrey M. Manthorpe, Jeffrey C. Smith, Carleton University, Ottawa, Canada

Trimethylation enhancement using diazomethane (TrEnDi) enables enhanced LCMS detection of glufosinate and 3-(methylphosphinico)propionic acid from complex canola samples

Joshua Roberts, Natalie Prowse, Shawn Hayley, Jeffrey, C. Smith, Carleton University, Ottawa, Canada Development of a Fatty Acid Methyl Ester Profiling and Total Cholesterol Determination Workflow by GCMS for Mouse Prefrontal Cortex Brain Tissue

Thursday, November 30 Poster Session, cont.

Sharon Curtis, Zoran Minic, Tony Durst, Petr Kasyanchyk et al., University of Ottawa, Ottawa, Canada Fatty Acid Content, of the seeds of probably the rarest tree on the planet! PLEODENDRON COSTARICENSE (CANELLACEAE)

Jeffrey Smith, Joshua Roberts, Angela Radnoff, Aleksandra Bushueva, Meaghan Harley, Karl Wasslen, Carleton University, Ottawa, Canada Understanding factors that contribute to the DARK MATTER of lipidomics datasets

Derek Wilson, Cristina Lento; Esther Wolf; Alex Listigovers; Vimanda Chow; Joseph Anacleto, York University, Toronto, Canada Mass Spectrometry-enabled Dynamic Structural Biology for Therapeutics Development and Manufacturing

John Headley, Samuel T. Mutto, Benedict Gannon, Ian Vandermuelen, Dani Degenhardt, Dena W. McMartin, Callan Littlejohn, Hugh E. Jones, Diana Palacio Lozano, Meng Li, Mark P. Barrow, Environment and Climate Change Canada, Saskatoon, Canada

TimsTOFMS characterization of oil sands naphthenic acid fraction compounds in wetland mesocosms

Daniel DeBord, Jordan Stewart, Michelle English, Ashli Simone, Maria Fawaz, Komal Kedia, MOBILion Systems, Chadds Ford, United States

High Throughput, Label-Free Cyclic Peptide Soft Spot Identification via High Resolution Mobility Aligned Fragmentation Analysis

Susan Richardson, Jiafu Li, Md. Tareq Aziz, and Caroline Granger; University of South Carolina, Colombia, United States

High resolution-MS uncovers new halocyclopentadiene disinfection by-products in drinking water

Lars Konermann, Zeyuan Liu, Yousef Haidar, Mathew J. Willians, and Nicholas A. Bainbridge, The University of Western Ontario, London, Canada

On the Chemistry of Aqueous Ammonium Acetate Droplets during Native Electrospray Ionization Mass Spectrometry

Friday, December 1

| 07:00 | <u>Breakfast</u> Louiza, Lower Level | | |
|---|---|-----------------------|---------------|
| 08:00 to 09:40 | <u>Ion Activation</u> Chair: Gary Glish, University of North Carolina | | |
| 08:00 | <i>Glen Jackson</i> , West Virginia University, Morgantown, United States Recent Advances in Charge Transfer Dissociation Mass Spectrometry (CTD-MS) | | |
| 08:25 | Kristina Hakansson, Steven DeFiglia, Neven Mikawy, Menatallah Youssef, University of Michigan, Ann Arbor, United States Physical and Chemical Approaches to Improved Tandem Mass Spectrometry of Posttranlational Modifications | | |
| 08:50 | James Prell, Samantha O. Shepherd, Austin W. Green, Ruwan T. Kurulugama, Kenneth R. Newton, University of Oregon, Eugene, USA Ion Heat Transfer, Activation, and Kinetic Energy Damping in Native Mass Spectrometry: Lessons from an Improved Impulsive Collision Model | | |
| 09:15 | <i>Scott McLuckey,</i> Purdue University, West Lafayette, United States Dipolar DC Collisional Activation and Ion/ion Reactions for the Structural Characterization of Bio-ions: From Lipids to G-4 Quadruplexes | | |
| 09:40 | <u>Discussion & Coffee Break</u> Victoria Ballroom | | |
| 10:10 to 11:50 | <u>Methods and Instrumentation, Part I</u> Chair: Jeffrey Smith, Carleton University | | |
| 10:10 | <i>Jeff Manthorpe</i> , Benjamin B. Warnes, Jasmine Chihabi, Carleton University, Ottawa, Canada Challenging the Dogma: Is Negative Polarity Inherently Less Sensitive Than Positive Polarity? | | |
| 10:30 | Patrick Pribil , SCIEX, Concord, Canada Increasing biological insight using alternative fragmentation and high sensitivity MS/MS on the SCIEX ZenoTOF7600 system | | |
| 10:50 | Jonathan Amster, Eli Roberts, University of Georgia, Athens, United States Mass spectrometric strategies for assigning heavy isotope enrichment in glycoproteins | | |
| 11:10 <i>Nicholas Wawryk, Caley Craven, Kristin Carroll, and Xin</i> Edmonton, Canada <i>Changes in Natural Organic Matter during Spring Runoff</i> <i>Formation</i> | | | |
| | Winner of a CSMS Travel Award | Sponsored by: | S CIENTIFIC |
| 11:30 | Joseph Monaghan, Angelina Jaeger, Misha Zvekic, Joshua Jai, Haley Tomlin, Jamieson Atkinson, Tanya Brown, Chris Gill, Erik Krogh, Vancouver Island University, Nanaimo, Canada Automated high throughput analysis of tire-derived phenylene diamine quinones (PPDQs) in water by online membrane sampling coupled to ESI-MS/MS | | |
| | Winner of the ETP - Bill Davidson Travel Award | Sponsored by: The Day | vidson Family |
| 11:50 | Discussion | | |

Friday, December 1, cont.

12:00 to 13:30 <u>Lunch</u> Fairview Dining Room

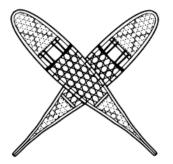
FRIDAY AFTERNOON - FREE TIME - ENJOY THE GREAT OUTDOORS!

- 18:00 <u>Cocktails</u> Victoria Foyer/Victoria Ballroom
- 19:00 to 23:00 <u>Banquet Dinner</u> Victoria Ballroom

PICK UP LUNCH-TO-GO-VOUCHERS. Please ask a server.







Saturday, December 2

| 07:00 | <u>Breakfast</u> Louiza, Lower Level | |
|----------------|---|--|
| 08:00 to 9:40 | <u>Metabolomics, Drugs & Environmental Applications</u> Chair: Lars Konermann, University of Western Ontario | |
| 08:00 | Erin Baker, Anna Boatman, James Dodds, Kaylie Kirkwood Donelson, Kylie Rock, Scott Belcher, University of North Carolina, Chapel Hill, United States Alligators as Sentinel Species for Environmental and Health Concerns | |
| 08:20 | <i>Sylvain LeTarte</i> , Phytronix Instruments Inc. <i>Reaching the sub-second analysis in mass spectrometry: opening a window to the future</i> | |
| 08:40 | <i>Christopher Chouinard</i> , Clemson University, Clemson, United States Ion Mobility-Aligned MS/MS Fragmentation for Identification of Novel Psychoactive Substances | |
| 09:00 | Rafa Montenegro Burke, University of Toronto, Toronto, Canada Untargeted metabolomics illuminates cellular heterogeneity in cancer | |
| 09:20 | <i>Mark Sumarah, Justin Renaud, Natasha DesRochers, Lyne Sabourin, Agriculture and Agri-Food</i> Canada, London, Canada <i>Targeted and Non-targeted sampling and LC-MS analysis of surface water for environmental</i> <i>contaminants</i> | |
| 09:40 | <u>Discussion & Coffee Break</u> Victoria Ballroom | |
| 10:10 to 12:10 | <u>Methods and Instrumentation, Part II</u> Chair: <i>David Schriemer, University of Calgary</i> | |
| 10:10 | Pierre Chaurand, Rachel Pryce, Hooman Bagheri, Alan C. Peterson, Université de Montréal, Montreal, Canada Spinal cord remodeling across six mouse mutant strains monitored by mass spectrometry imaging | |
| 10:30 | <i>Anas El-Aneed</i> , College of Pharmacy and Nutrition, University of Saskatchewan, Saskatoon, Canada <i>MS-based quantification in pharmaceutical analysis without conventional chromatographic</i> <i>separations, opportunities and limitations</i> | |
| 10:50 | Facundo Fernandez, Daniel Vallejo, Carter Asef, Joseph Cortsvet, School of Chemistry and Biochemistry. Georgia Institute of Technology, Atlanta, United States Fundamentals and Applications of Triboelectric Nanogenerator Nanoelectrospray Ionization | |
| 11:10 | Richard Oleschuk, Malek Hassan, Haidy Metwally, Mark McKeown, Matthias Hermann, Rachel Theriault, Jian Yu, Martin Kaufmann, Kevin Y. M. Ren, Randy E. Ellis, Queen's University, Kingston, Canada An Ambient Ionization Probe (LMJ-SSP) and Conductive Touch Platform to Profile Fresh, Fresh Frozen and Formalin Fixed Paraffin Embedded Tumour Samples | |

Saturday, December 2, cont.

- 11:30Chris Gill, Lucas R. Abruzzi; Daniel G. Beach; Erik T. Krogh; Vancouver Island University,
Nanaimo, Canada
Multi-Class, High Throughput Algal Toxin Measurements using Paper Spray Mass Spectrometry
- 11:50 *Gary Glish, Cameron D. Worthington,* University of North Carolina, Chapel Hill, USA *IMS/IMS/MS: Is more MS better*?
- 12:10 Discussion and Adjournment
- 12:15 to 13:30 <u>Lunch</u> Fairview Dining Room
- 12:30 to 15:00 Meeting of the Organizing Committee

SATURDAY AFTERNOON - FREE TIME - ENJOY THE GREAT OUTDOORS!

18:00 **<u>DINNER</u>**

<u>Cocktails & Dinner</u> Victoria Foyer/Victoria Ballroom

Sunday, December 3

07:00 to 10:30 <u>Breakfast</u> Louiza, Lower Level

Thank you for joining us at the 35th Annual Lake Louise Tandem MS Workshop. We hope you will join us next year!

Our Sponsors

We gratefully acknowledge financial support for the Lake Louise Workshop. Sponsorship levels are ranked in accordance with the Lake Louise downhill ski runs.

