



# QUICK GUIDE

The American Statistical Association\* • Institute of Mathematical Statistics\* • International Biometric Society (ENAR and WNAR)\*  
International Chinese Statistical Association • International Indian Statistical Association • International Society for Bayesian Analysis  
International Statistical Institute • Korean International Statistical Society • Statistical Society of Canada\* • Royal Statistical Society

(\*indicates the founding societies of JSM)

CAMBRIDGE

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[www.cambridge.org/JSM2018](http://www.cambridge.org/JSM2018)

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# JSM QUICK GUIDE

The JSM Quick Guide, introduced in 2017, is back! As JSM has grown and attendees have increasingly turned to their smart phones and tablets for information, we realized a new JSM Quick Guide would help you more quickly find the general information you're looking for, such as floor plans, featured events, and the overall JSM schedule. The complete program can be found in the online program and JSM app, where you can build a custom schedule and find up-to-date details for JSM's more than 600 sessions. By developing each medium with its strengths and weaknesses in mind, we aim to offer attendees a more useful print and online program.



**INSIDE THE JSM APP**  
Take a closer look at the JSM app on Page 5.

## JSM SCHEDULE AT A GLANCE

### SATURDAY

July 28, 2018

Registration  
7:30 a.m. – 6:00 p.m.

Professional Development\*  
8:00 a.m. – 6:30 p.m.

Career Service\*  
9:00 a.m. – 5:00 p.m.  
*Pre-registered attendee badge pick-up and onsite registration only*

### SUNDAY

July 29, 2018

Registration  
7:30 a.m. – 8:30 p.m.

Professional Development\*  
8:00 a.m. – 5:00 p.m.

First-Time Attendee Orientation and Reception  
12:30 p.m. – 2:00 p.m.

EXPO 2018  
1:00 p.m. – 6:00 p.m.  
8:30 p.m. – 10:30 p.m.

Career Service\*  
1:00 p.m. – 6:00 p.m.

Technical (Paper and Panel) Sessions  
2:00 p.m. – 5:50 p.m.

ASA Awards Celebration and Editor Appreciation  
7:30 p.m. – 8:30 p.m.

JSM Opening Mixer and Invited Poster Session  
8:30 p.m. – 10:30 p.m.

### MONDAY

July 30, 2018

A.M. Roundtable Discussions\*  
7:00 a.m. – 8:15 a.m.

Registration  
7:30 a.m. – 6:00 p.m.

Professional Development\*  
8:00 a.m. – 5:00 p.m.

Career Service\*  
8:00 a.m. – 5:30 p.m.

Technical (Paper, Panel, and Poster) Sessions  
8:30 a.m. – 3:50 p.m.

EXPO 2018  
9:00 a.m. – 5:30 p.m.

P.M. Roundtable Discussions\*  
12:30 p.m. – 1:50 p.m.

President's Invited Speaker  
4:00 p.m. – 5:50 p.m.

### TUESDAY

July 31, 2018

A.M. Roundtable Discussions\*  
7:00 a.m. – 8:15 a.m.

Registration  
7:30 a.m. – 6:00 p.m.

Professional Development\*  
8:00 a.m. – 5:00 p.m.

Career Service\*  
8:00 a.m. – 5:30 p.m.

Technical (Paper, Panel, and Poster) Sessions  
8:30 a.m. – 3:50 p.m.

EXPO 2018  
9:00 a.m. – 5:30 p.m.

P.M. Roundtable Discussions\*  
12:30 p.m. – 1:50 p.m.

Deming Lecture  
4:00 p.m. – 5:50 p.m.

ASA President's Address and Founders & Fellows Recognition  
8:00 p.m. – 9:30 p.m.

JSM Dance Party  
9:30 p.m. – 12:00 a.m.

### WEDNESDAY

August 1, 2018

A.M. Roundtable Discussions\*  
7:00 a.m. – 8:15 a.m.

Registration  
7:30 a.m. – 4:30 p.m.

Career Service\*  
8:00 a.m. – 2:30 p.m.

Professional Development\*  
8:00 a.m. – 5:00 p.m.

Technical (Paper, Panel, and Poster) Sessions  
8:30 a.m. – 3:50 p.m.

EXPO 2018  
9:00 a.m. – 2:30 p.m.

P.M. Roundtable Discussions\*  
12:30 p.m. – 1:50 p.m.

COPSS Awards and Fisher Lecture  
4:00 p.m. – 5:50 p.m.

### THURSDAY

August 2, 2018

Registration  
7:30 a.m. – 10:30 a.m.

Technical (Paper and Panel) Sessions  
8:30 a.m. – 12:20 p.m.

\* Ticketed event (additional fees apply)

# JSM2018

Vancouver, British Columbia, Canada

Thank you 2018 SPONSORS

## PLATINUM



## GOLD



## SILVER







## JSM APP

Download the official JSM 2018 app (sponsored by IBM) to see last-minute updates, create your own schedule, play the JSM Challenge for prizes, and more. Available on Google Play and the App Store; free.



### Looking for the complete JSM program schedule and abstracts?

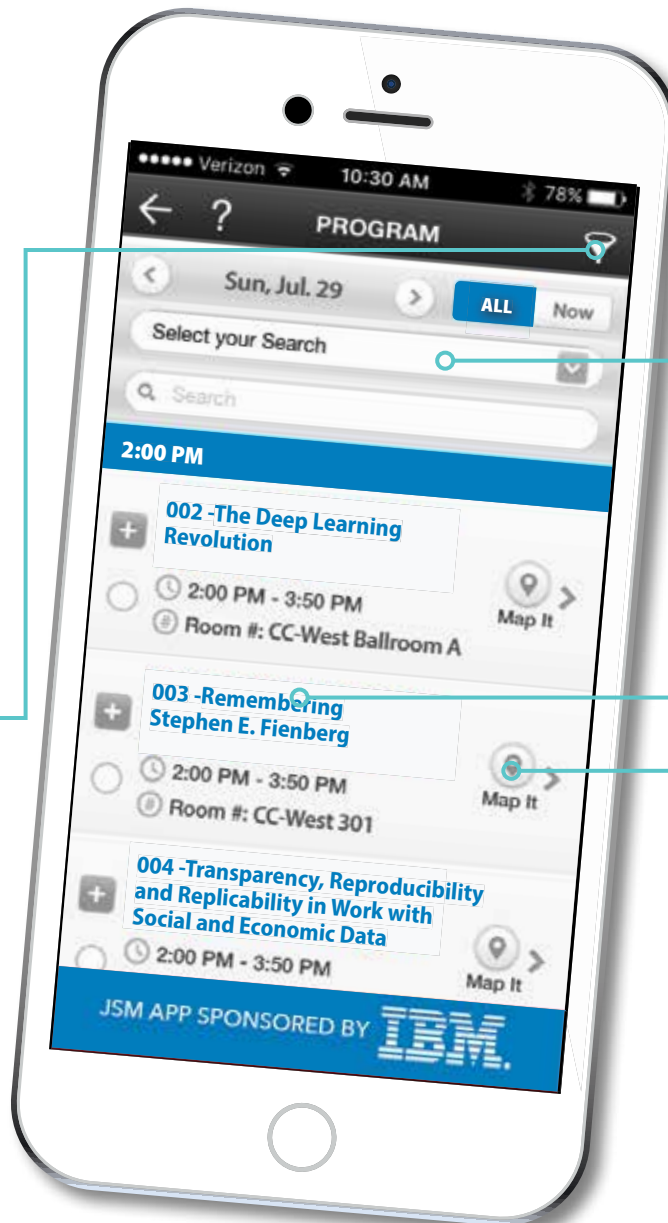
Just click the Program icon in the JSM app! Scroll through all JSM sessions, the Professional Development program, business and committee meetings, and JSM hours and events by day.

### Need to know when speed sessions are taking place?

Simply select "Contributed Speed" from the filter options—and *voilà*!

### And don't forget to leave feedback about the presentations you see.

Just click the "thumbs-up" icon above the abstract text.



### Trying to find something specific?

Search for a speaker and find an abstract via keyword or session title. You can even filter your search for specific sponsors or session type!

### Want to read a speaker's abstract before attending a certain session?

Tap on the session title and you will see all the speaker abstracts for the session, including their start times.

### Not sure where a room is located?

Just hit the "Map It" icon and the app will show you.

AVAILABLE **FREE** ON GOOGLE PLAY AND THE APP STORE.



## JSM CHALLENGE



Don't miss out on the opportunity to have fun and win great prizes! Download the JSM app from Google Play or the App Store. For all other devices, a web version is available at [ww2.amstat.org/meetings/jsm/2018/jsmapp](http://ww2.amstat.org/meetings/jsm/2018/jsmapp).

Take the JSM Challenge via the JSM 2018 app! Earn points for each question and task you complete to win prizes at the end of the week. The JSM Challenge runs Saturday through Wednesday, with new questions each day. You'll be working together for a special prize that will light up this year's Dance Party. What are you waiting for? Get glowing! (Don't worry—if you're the competitive type, our four top-scoring participants will also receive individual prizes.)

## CONVENTION HOUSING

Fairmont Waterfront (HQ)	(604) 691-1991
Days Inn Vancouver	(604) 681-4335
Delta Vancouver Suites	(604) 689-8188
Fairmont Vancouver	(604) 684-3131
Four Seasons Hotel Vancouver	(604) 689-9333
Hampton Inn & Suites	(604) 602-1008
Hyatt Regency Vancouver	(604) 683-1234
JW Marriott Parq Vancouver	(604) 676-0888

Pan Pacific Hotel Vancouver	(604) 662-8111
Pinnacle Hotel Harbourfront	(604) 689-9211
Sheraton Wall Centre	(604) 331-1000
Sheraton Vancouver Airport	(604) 273-7878
The Douglas, Autograph Collection Vancouver	(604) 676-0889
Vancouver Marriott Pinnacle Downtown	(604) 684-1128
Westin Bayshore Vancouver	(604) 682-3377

## SOCIAL MEDIA



Join the Joint Statistical Meetings conversation by using **#JSM2018** on social media. Also follow the official ASA social media accounts for news, pictures, and last-minute updates.

- [www.facebook.com/AmstatNews](http://www.facebook.com/AmstatNews)
- [www.instagram.com/AmstatNews](http://www.instagram.com/AmstatNews)
- [www.twitter.com/AmstatNews](http://www.twitter.com/AmstatNews)
- [community.amstat.org](http://community.amstat.org)



WIFI

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Network: JSM2018  
Password: abbvie2018



## DOCENT PROGRAM

Questions? New to JSM? Find a JSM docent to help you learn the ropes. JSM docents are experienced JSM attendees wearing an **orange button** (pictured) who can help you make the most of your experience.



### Emergency Telephone Messages

In case of emergency, messages may be left during registration hours by calling **(778) 331-7615**. We will attempt to contact the registrant using the contact information provided in their registration.

### Assistance for Those with Disabilities

Please contact a staff member at the Help Desk in the registration area if you have a disability that may impede your participation.



### Child Care

Kiddie Corp is the official child care provider for JSM 2018. Arrangements should have been made in advance. Please contact Kiddie Corp at (858) 455-1718 or [info@kiddiecorp.com](mailto:info@kiddiecorp.com) for any questions or possible availability.

### Policies

#### Electronic Devices

All cell phones, pagers, and other electronic devices should be silenced before attending any session or meeting.

#### Smoking

Smoking is not permitted at any JSM function, unless the event is held outside.

#### Recycling

Please use the paper, plastic, and aluminum trash containers located throughout the convention center. Also, participating in the towel and linen programs at area hotels makes a significant difference in the amount of energy and water used. Finally, place JSM badges and badge holders in one of the designated bins when leaving.

### JSM Proceedings

Eligibility guidelines and author instructions for

JSM 2018 presenters are available at [ww2.amstat.org/meetings/jsm/2018/submissions.cfm](http://ww2.amstat.org/meetings/jsm/2018/submissions.cfm). The submission site will open August 28, 2018, and close September 29, 2018 (11:59 p.m. EDT).

### Meetings Conduct Policy\*

As a professional society, the American Statistical Association (ASA) is committed to providing an atmosphere that encourages the free expression and exchange of ideas. Consistent with this commitment, it is the policy of the ASA that all participants in ASA activities will enjoy a welcoming environment free from unlawful discrimination, harassment, and retaliation. All participants in ASA activities also agree to comply with all rules and conditions of the activities, which are subject to change without notice.



\*Please read the complete Conduct Policy at [www.amstat.org/meetings/jsm/2018/conductpolicy.cfm](http://www.amstat.org/meetings/jsm/2018/conductpolicy.cfm).



## HOURS OF OPERATION

### Registration and ASA Membership/ Help Desk/Press Desk

#### CC-West Ballroom Foyer

JSM registration includes the JSM Quick Guide; access to the exhibit hall; and admission to the Opening Mixer, Student Mixer (students only), and JSM Dance Party.

Saturday	7:30 a.m. – 6:00 p.m.
Sunday	7:30 a.m. – 8:30 p.m.
Monday – Tuesday	7:30 a.m. – 6:00 p.m.
Wednesday	7:30 a.m. – 4:30 p.m.
Thursday	7:30 a.m. – 10:30 a.m.

### Speaker Management Room

*Sponsored by AbbVie*

#### CC-West 103/104

Speakers are required to check in four hours prior to their presentations to upload their materials to the speaker management system or confirm their materials were uploaded correctly. Session chairs also should check in to confirm all speakers have uploaded their materials.

Sunday	9:00 a.m. – 7:00 p.m.
Monday – Wednesday	7:00 a.m. – 6:00 p.m.
Thursday	7:00 a.m. – 10:30 a.m.

### Career Service

#### CC-West Hall A

Saturday	9:00 a.m. – 5:00 p.m. (Pre-registered attendee badge pick-up and onsite registration only)
Sunday	1:00 p.m. – 6:00 p.m.
Monday – Tuesday	8:00 a.m. – 5:30 p.m.
Wednesday	8:00 a.m. – 2:30 p.m. (onsite registration closes at noon)

### JSM Luggage Storage

#### CC-West Ballroom Foyer

Wednesday	8:00 a.m. – 6:30 p.m.
Thursday	8:00 a.m. – 1:00 p.m.

### EXPO 2018

#### CC-West Hall B

Visit publishers, software companies, and recruiters. See state-of-the-art products designed for the statistical community. Make sure to check out the coffee, refreshment, and lunch options available each day, as well.

Sunday	1:00 p.m. – 6:00 p.m., 8:30 p.m. – 10:30 p.m.
Monday – Tuesday	9:00 a.m. – 5:30 p.m.
Wednesday	9:00 a.m. – 2:30 p.m.

### Cyber Center

#### CC-West Ballroom Foyer

Send email, print boarding passes, and check the JSM online program using available computers and printers.

Saturday	7:30 a.m. – 6:00 p.m.
Sunday	7:30 a.m. – 8:30 p.m.
Monday – Tuesday	7:30 a.m. – 6:00 p.m.
Wednesday	7:30 a.m. – 4:30 p.m.
Thursday	7:30 a.m. – 10:30 a.m.

### ASA Store (inside EXPO 2018)

#### CC-West Hall B, Booth #401

The ASA Store is the place for your official JSM 2018 T-shirt and other JSM and ASA souvenirs.

Sunday	1:00 p.m. – 6:00 p.m., 8:30 p.m. – 10:30 p.m.
Monday – Tuesday	9:00 a.m. – 5:30 p.m.
Wednesday	9:00 a.m. – 2:30 p.m.

### Vancouver Restaurant & Tourism Information Center

#### CC-West Ballroom Foyer

Operated by Tourism Vancouver, this center provides extensive information about and referrals for restaurants and sightseeing. Stop by the desk and pick up maps and travel information.

Saturday – Wednesday	10:00 a.m. – 5:00 p.m.
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## SPECIAL EVENTS

### FIRST TIMER

#### JSM First-Time Attendee Orientation and Reception

*Sunday, July 29, 12:30 p.m. - 2:00 p.m.*

##### **CC-West Ballroom D**

Join fellow first-timers at this orientation reception and learn how to become involved in JSM. Hear about the benefits of membership and get tips about the conference.

#### JSM Opening Mixer & Invited Poster Session, sponsored by Eli Lilly & Company

*Sunday, July 29, 8:30 p.m. - 10:30 p.m.*

##### **CC-West Hall B**

All conference attendees are encouraged to come together for the kick-off social event of JSM.

#### ASA Awards Celebration and Editor Appreciation

*Sunday, July 29, 7:30 p.m. - 8:30 p.m.*

##### **CC-West 211**

The Sunday night awards ceremony recognizes retiring editors and honorees of annual ASA awards, section awards, and scholarships.

#### JSM Student Mixer

*Monday, July 30, 6:00 p.m. - 8:00 p.m.*

##### **CC-West Ballroom D**

The Student Mixer provides an opportunity for students to join their contemporaries for a fun-filled time.

#### ASA Longtime Member Reception (by invitation only), Sponsored by Westat

*Monday, July 30, 6:30 p.m. - 7:30 p.m.*

##### **CC-West 201**

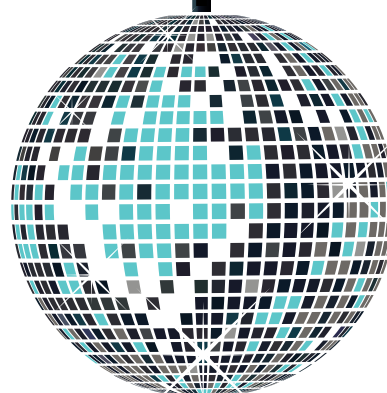
This annual reception is held to honor ASA members who have shown dedication to the association for 35 or more years.

#### JSM Dance Party

*Tuesday, July 31, 9:30 p.m. - 12:00 a.m.*

##### **CC-West Ballroom D**

A fun highlight of JSM, the dance party is held right after the ASA President's Address and Founders & Fellows Recognition. There are snacks, a cash bar, and music!



**The JSM Opening Mixer is in the EXPO!** Sunday from 8:30 p.m.-10:30 p.m. Some exhibitors will have refreshments. Look for more information inside the EXPO.



Join us for featured events throughout the week that give you a little taste of the city. Check out the schedule and stop by Spotlight to see more!

**Sunday, July 29**

*1:00 p.m.*

**Spotlight Vancouver Kick-Off**

Swing by and kick off JSM with samples of area specialties like wild salmon sliders, porcini mushroom tarts, and BBQ duck spring rolls. Enjoy while they last!



*3:30 p.m.*

**Tasty Vancouver Fruit Tartelettes**

No time to venture to Granville Island? No matter. Enjoy fresh samples of fruit tartelettes made from local fruit and berries (while supplies last) and mingle with other attendees.

*8:30 p.m.*

**Opening Mixer Popcorn,  
Sponsored by Netflix**

Enjoy a pick-me-up with a traditional popcorn break.

# IMPACT VANCOUVER

Interested in giving back  
while in Vancouver?



**Connect with other JSM attendees** while making blankets (no sewing involved) to be donated to those in need. Just drop by Spotlight Monday through Wednesday between 11:30 a.m. and 1:00 p.m. to participate.

## Monday, July 30

9:00 a.m.

### **Vancouver Insider Tips**

Whether you seek tips for activities and food nearby or the variety of options surrounding lovely Vancouver and whether you have been to Vancouver before or need a rundown for your first time in the city, Tourism Vancouver is here to guide you.

10:00 a.m.

### **JSM Coffee House**

Refresh with a cup of coffee or tea from Vancouver's local organic, fair-trade coffee maker, Moja Coffee. Enjoy the featured house blend, Rainforest Alliance Sumatra, or choose from a variety of imported teas.

11:00 a.m. – 3:00 p.m.

### **JSM Photo Booth, Sponsored by Cytel, Inc.**

Stop by to create memories with your friends using fun props.

1:30 p.m.

### **Popcorn Break, Sponsored by XLSTAT**

Enjoy an afternoon pick-me-up with a traditional popcorn break.

3:30 p.m.

### **Vancouver Microbrew Tasting, Sponsored by RTI International**

Stop by to taste a variety of Vancouver microbrews (while supplies last).

## Tuesday, July 31

10:00 a.m.

### **Get Your JSM Energy Fix**

Come power up with fresh fruit and yogurt smoothie samples (strawberry, mango, or blueberry) and energy bars.

1:30 p.m.

### **Popcorn Break, Sponsored by Netflix**

Enjoy an afternoon pick-me-up with a traditional popcorn break.

3:30 p.m.

### **Experience B.C. Wines**

Don't miss this chance to taste local wines. Sample a variety of red and white wines from B.C.'s famous Okanagan Valley (while supplies last).

## Wednesday, August 3

10:00 a.m.

### **JSM Coffee House**

Refresh with a cup of coffee or tea from Vancouver's local organic, fair-trade coffee maker, Moja Coffee. Enjoy the featured house blend, Rainforest Alliance Sumatra, or choose from a variety of imported teas.



## DATA ART SHOW

Explore the *art* in data art with the JSM exhibit featuring data artists located on the EXPO floor!





# FEATURED SPEAKERS

## SUNDAY



### IMS Medallion Lecture I

2:00 p.m.

**CC-West 109**

#### Statistical Inference for Complex Extreme Events

Anthony Davison, *Ecole Polytechnique Fédérale de Lausanne*

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## MONDAY



### ASA President's Invited Address

4:00 p.m.

**CC-West Ballroom BC**

Laura Evans, *The New York Times*



### JSM Public Lecture

7:00 p.m.

**CC-West Ballroom A**

#### Born on Friday the Thirteenth: The Curious World of Probabilities

Jeffrey Rosenthal, *University of Toronto*

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## TUESDAY



### ASA Deming Lecture

4:00 p.m.

**CC-West Ballroom BC**

#### Improving the Quality and Value of Statistical Information: 14 Questions on Management

John L. Eltinge, *US Census Bureau*



### ASA President's Address and Founders & Fellows Recognition

8:00 p.m.

**CC-West Ballroom BC**

#### Choose to Lead

Lisa LaVange, *The University of North Carolina*



## WEDNESDAY



### IMS Medallion Lecture II

2:00 p.m.

#### CC-West Ballroom A

### Statistical Analysis of Large Tensors

Ming Yuan, *Columbia University*



### COPSS Awards & Fisher Lecture

4:00 p.m.

#### CC-West Ballroom BC

### The Future: Stratified Micro-Randomized Trials with Applications in Mobile Health

Susan Murphy, *Harvard University*

## INTRODUCTORY OVERVIEW LECTURES

*Sunday, July 29,  
2:00 p.m.*

#### CC-West Ballroom A

Session 2 - The Deep Learning Revolution

*Sunday, July 29  
4:00 p.m.*

#### CC-West 301

Session 42 - Examining What and How We Teach at All Levels: Key Ideas to Ensure the Progress and Relevance of Statistics

*Monday, July 30  
8:30 a.m.*

#### CC-West Ballroom A

Session 95 - Leading Data Science: Talent, Strategy, and Impact

*Monday, July 30  
10:30 a.m.*

#### CC-West Ballroom A

Session 137 - Multivariate Data Modeling with Copulas

*Tuesday, July 31  
8:30 a.m.*

#### CC-West Ballroom A

Session 271 - Reproducibility, Efficient Workflows, and Rich Environments

*Wednesday, August 1,  
8:30 a.m.*

#### CC-West Ballroom A

Session 448 - The Statistical and Data Revolution in the Social Sciences

## LATE-BREAKING SESSIONS

*Monday, July 30, 2:00 p.m.*

#### CC-West Ballroom A

Session 211 - Addressing Sexual Misconduct in the Statistics Community

*Tuesday, July 31, 10:30 a.m.*

#### CC-West Ballroom A

Session 316 - Statistical Issues in Application of Machine Learning to High-Stakes Decisions

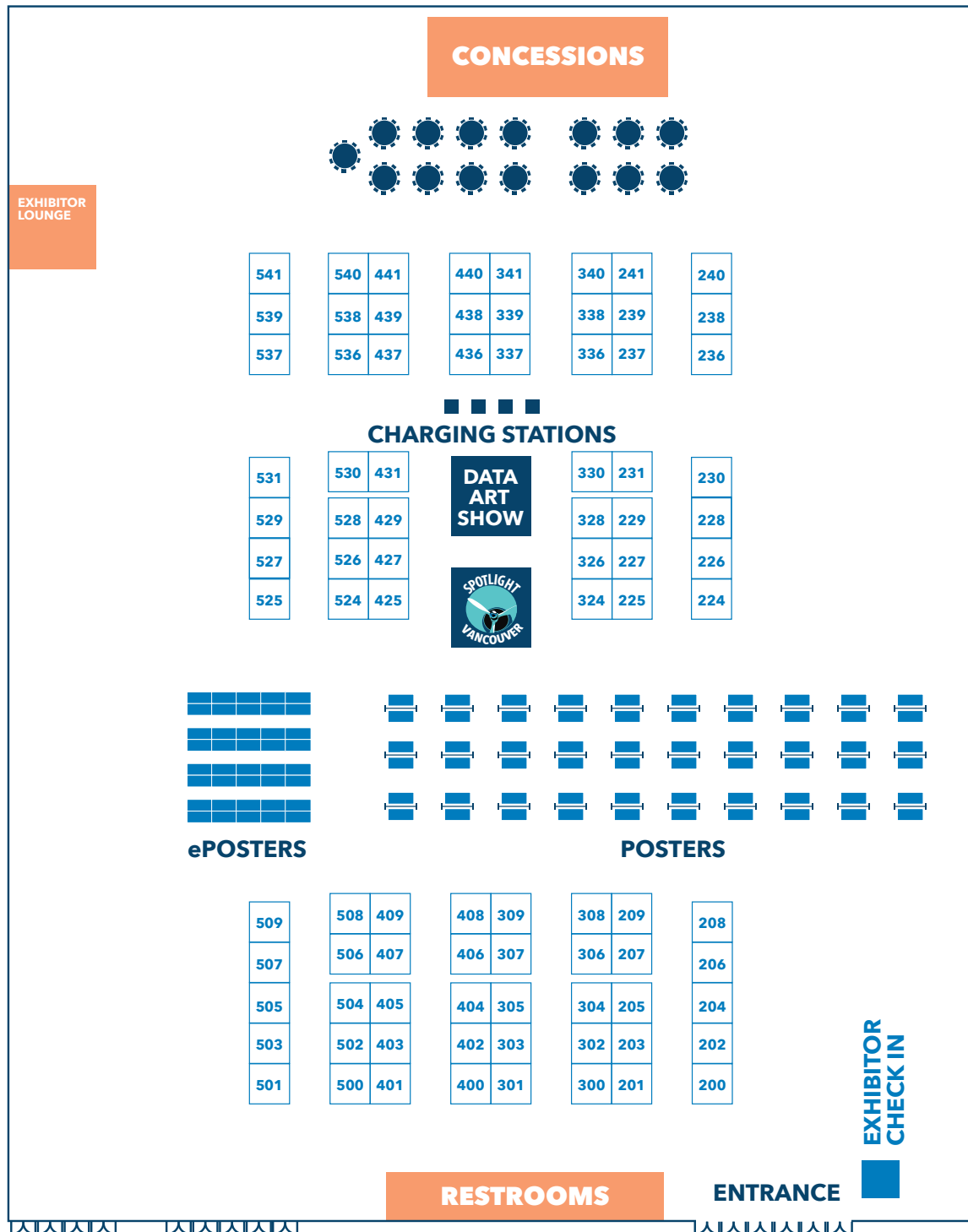




# JSM2018

Vancouver, British Columbia, Canada

West Exhibition Level  
**Hall B**





Exhibitor Name	Booth Number
Advanced Clinical	441
American Statistical Association	400, 402
Aptech Systems, Inc.	330
ASA Store	401,403,405
Barrington James	509
Berry Consultants	324
Bureau of Economic Analysis	506
Cambridge University Press	202, 204
Cengage	239
CITI Program, a division of BRANY	507
Clindata Insight	427
Covance / Chiltern	228
CRC Press/Taylor & Francis Group	337,436,438
Cytel	524, 425
Exploristics Ltd	541
FDA	237
FDA	336
Frontline Systems Inc.	230
H2O.ai	236
IBM	530
Institute of Mathematical Statistics (IMS)	407
JMP a software from SAS	300,302,304
JSM 2019: Denver, CO	404
Jump Trading	537
Lyft	539
Maplesoft	526
Minitab	500,502,504
National Center for Education Statistics (NCES)	227
National Center for Health Statistics	241
National Science Foundation	326

Exhibitor Name	Booth Number
National Security Agency	529, 531
NCSS	200
Netflix	525
NISS	341
nQuery	328
Oxford University Press	505
Pearson	231
Penfield Search Partners, LLC	226
Penn State University World Campus	206
PRA Health Sciences	440
Predictive Analytics Group	527
Responsive Survey Design: A Research Education Pro	408
RStudio Inc.	536
SAGE Publishing	508
Sandia National Labs	538
SAS EDU Practice	207, 209
SAS PUBS	306, 308
SAS R&D	201, 203, 205
SIAM	406
Springer	307, 309
StataCorp LLC	301,303,305
Statgraphics Technologies, Inc.	501
STAT-HAWKERS	224
Statistical Society of Canada (SSC)	409
Takeda Pharmaceutical Co.	208
The Lotus Group, LLC	437
TWO SIGMA	503
University of Kansas Dept. of Biostat	338
Wiley	429, 431
Xiaoju Science and Technology Limited	229
XLSTAT	225
Zillow Group	528



**The JSM Opening Mixer is in the Expo!**  
 Sunday  
 from 8:30 p.m. - 10:30 p.m. Some exhibitors will have refreshments. Look for more information inside the EXPO.

## CONVENTION CENTRE • WEST LEVEL 1

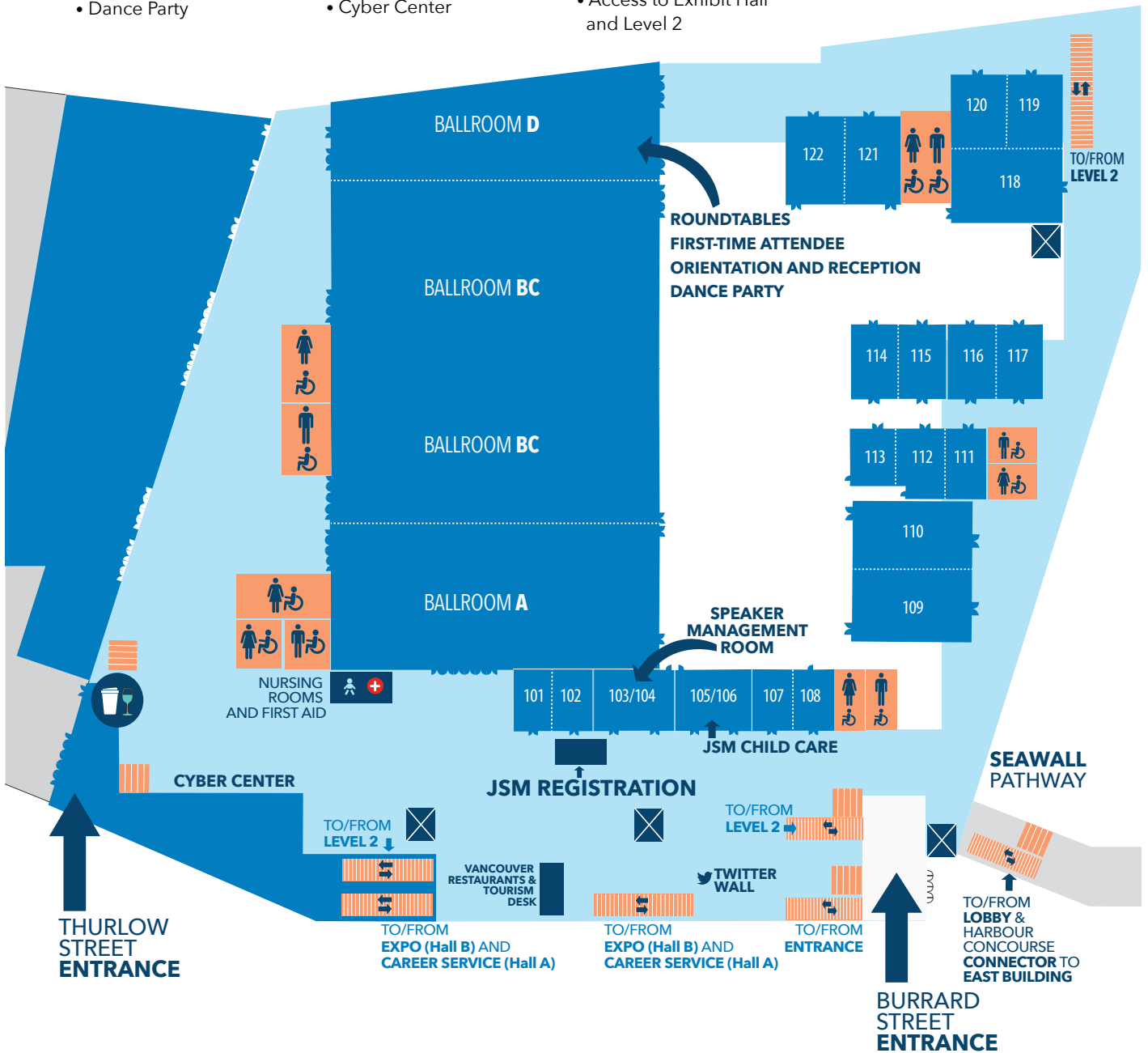
### CC-West

- Roundtables
- Fellows Reception
- Dance Party
- Plenary Sessions
- Speaker Management
- Cyber Center
- First-Time Attendee Orientation and Reception
- Access to Exhibit Hall and Level 2

**NORTH** ▲

#### KEY

- ESCALATOR
- STAIRS
- ELEVATOR
- RESTROOMS



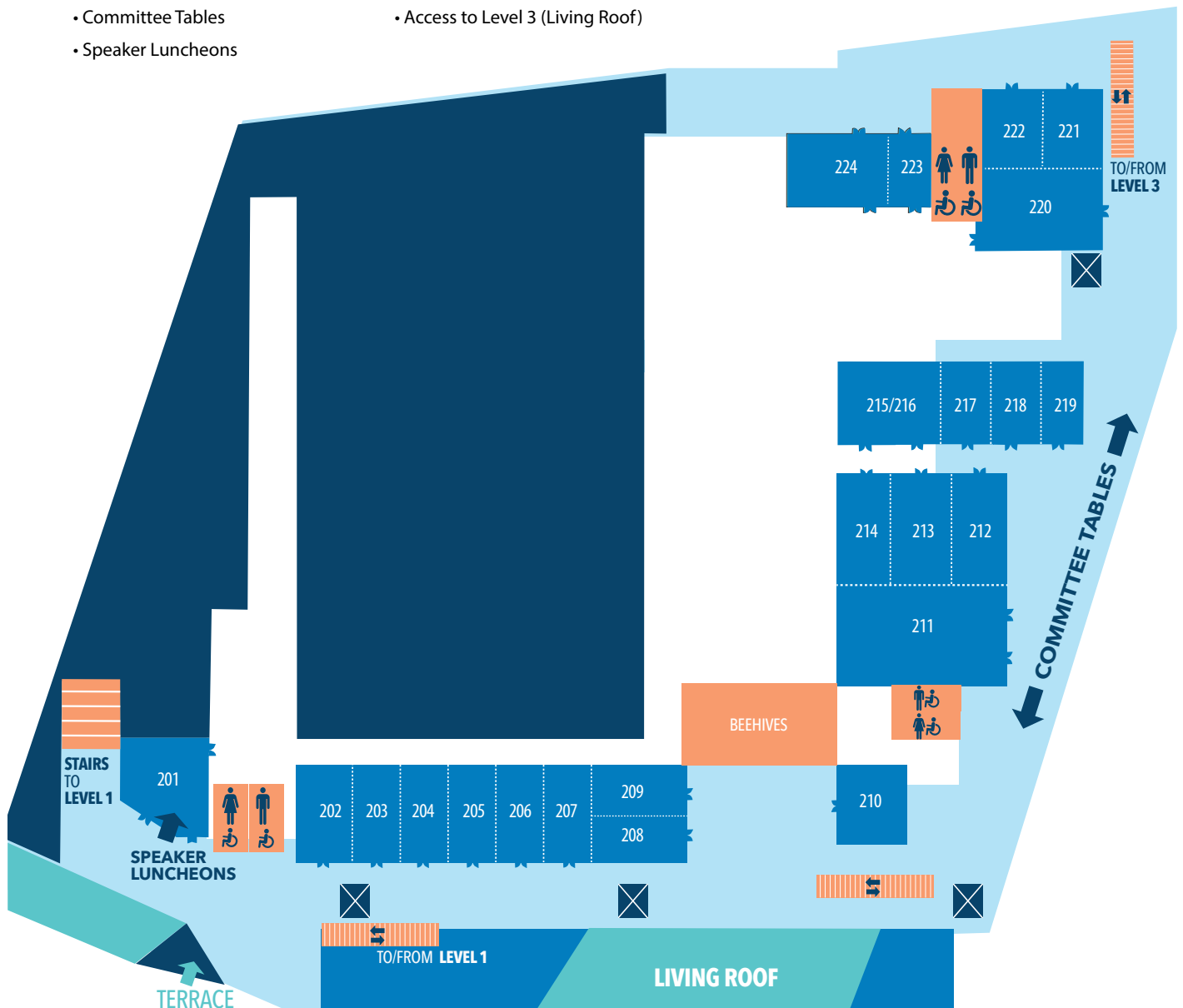
## CONVENTION CENTRE • WEST LEVEL 2 CC-West

- Business and Committee Meetings
- Committee Tables
- Speaker Luncheons
- Access to Level 1
- Access to Level 3 (Living Roof)

**NORTH** ▲

### KEY

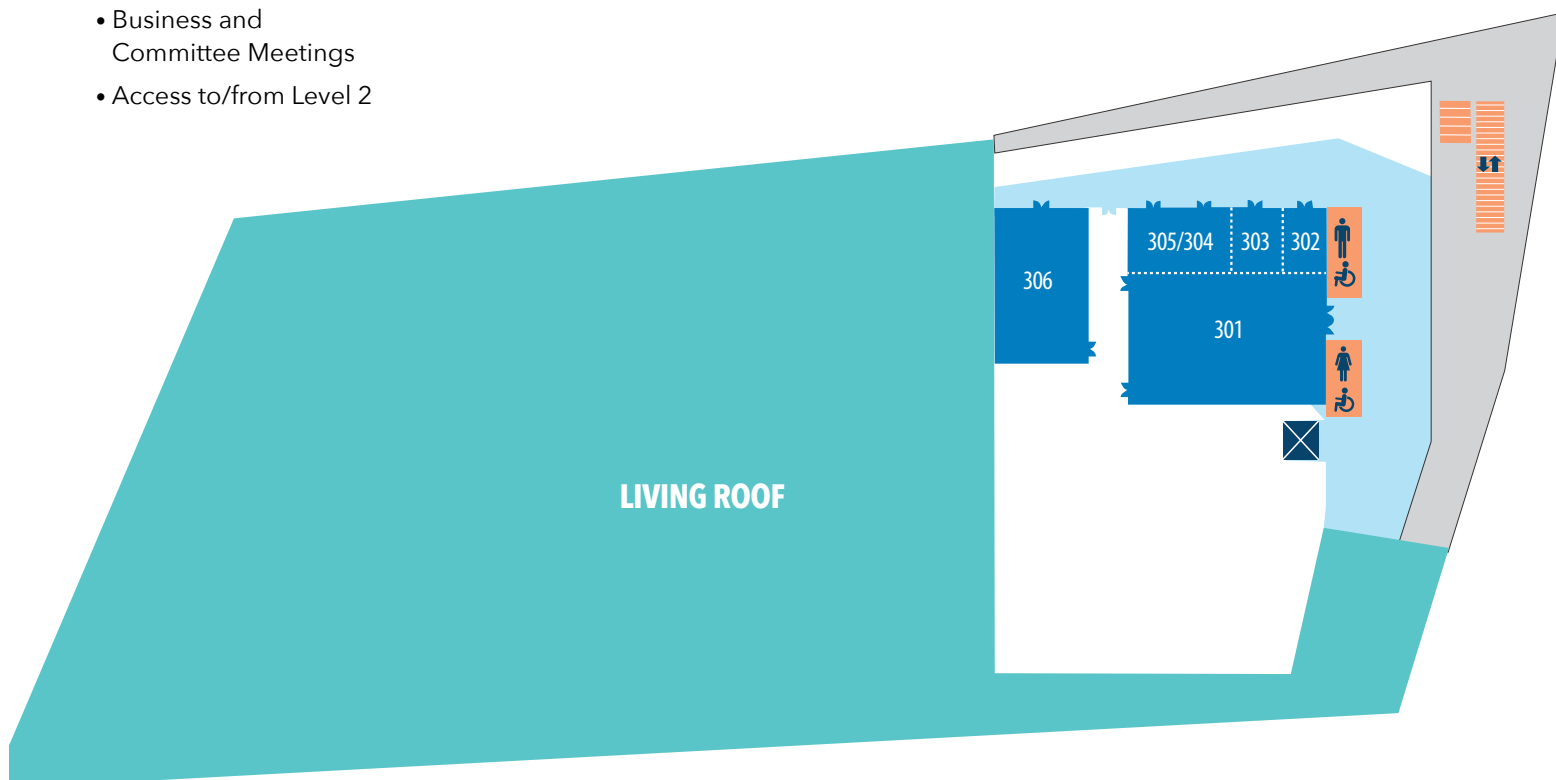
- ESCALATOR
- STAIRS
- ELEVATOR
- RESTROOMS



## CONVENTION CENTRE • WEST LEVEL 3

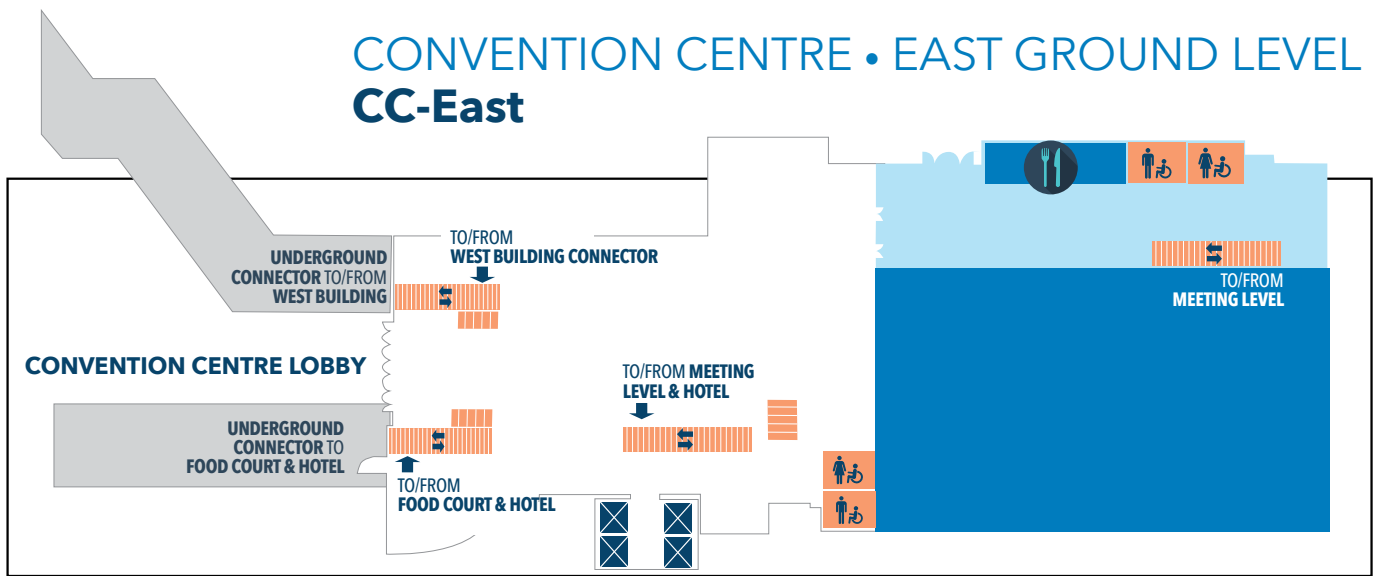
### CC-West

- Business and Committee Meetings
- Access to/from Level 2



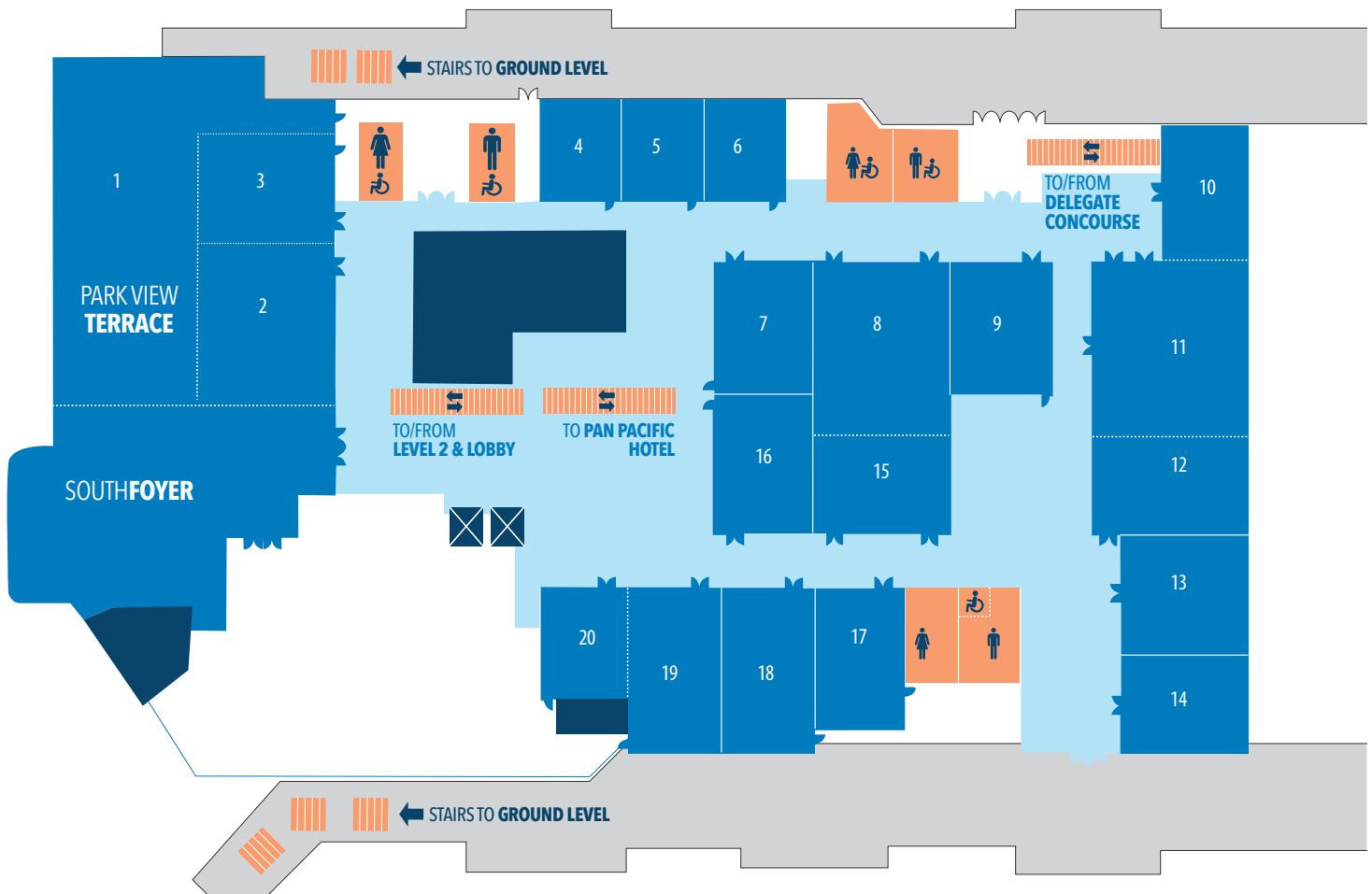


## CONVENTION CENTRE • EAST GROUND LEVEL CC-East

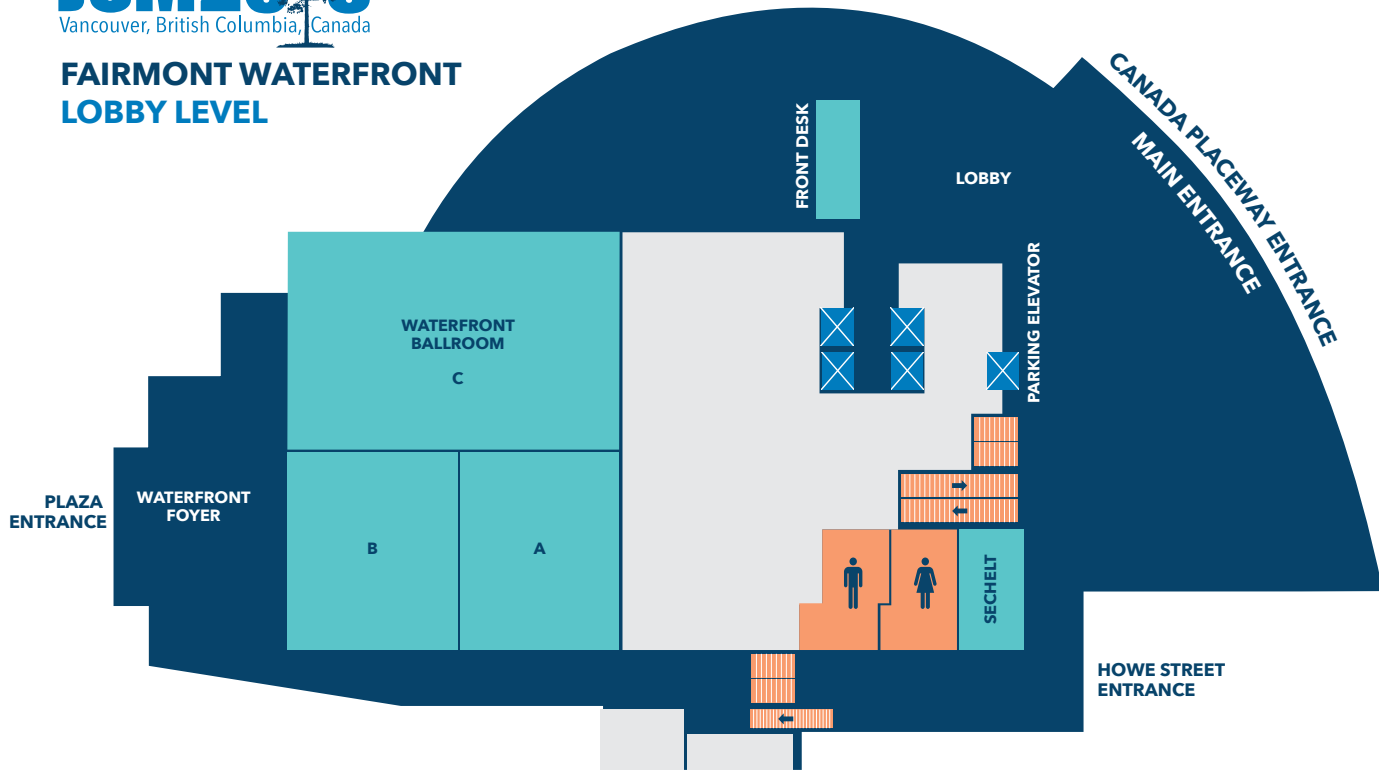


## CONVENTION CENTRE • EAST LEVEL 1 CC-East

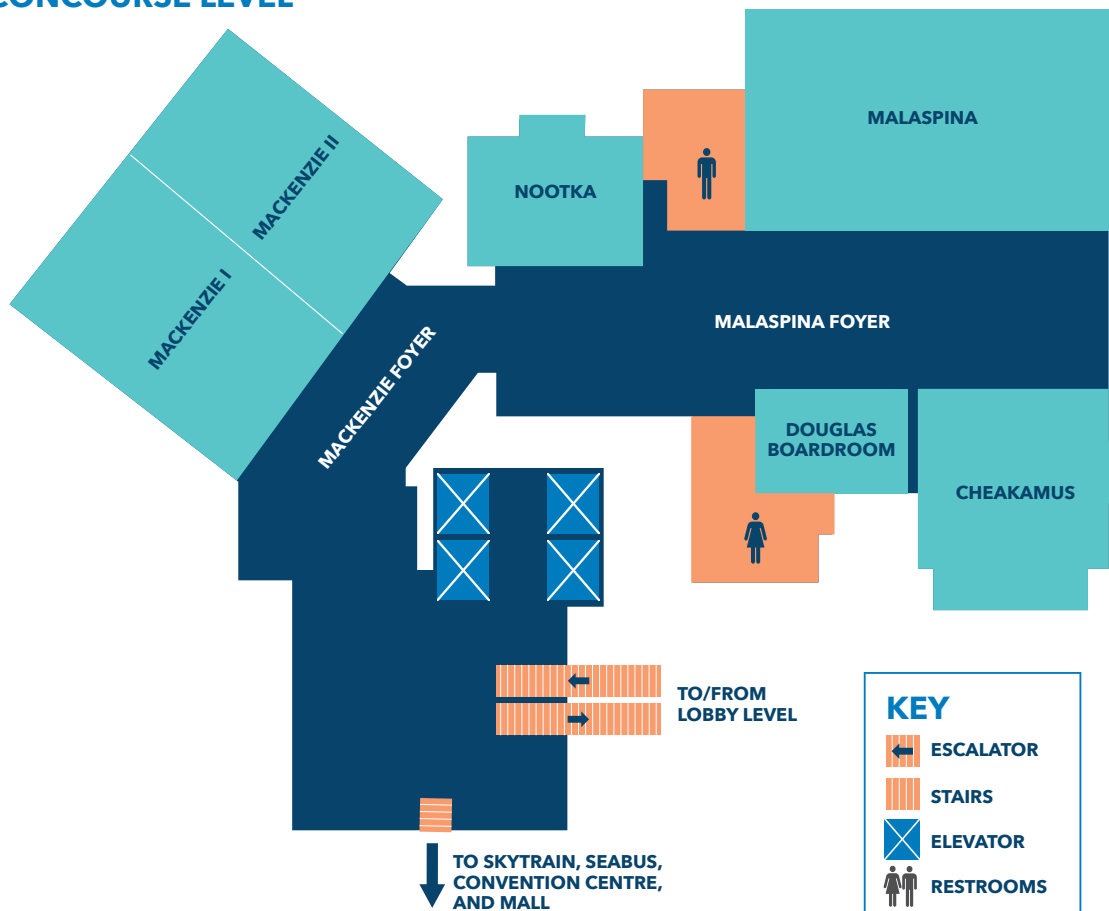
- Professional Development
- Business and Committee Meetings
- Access to Ground Level, Pan Pacific Hotel
- Technical Sessions



**FAIRMONT WATERFRONT  
LOBBY LEVEL**



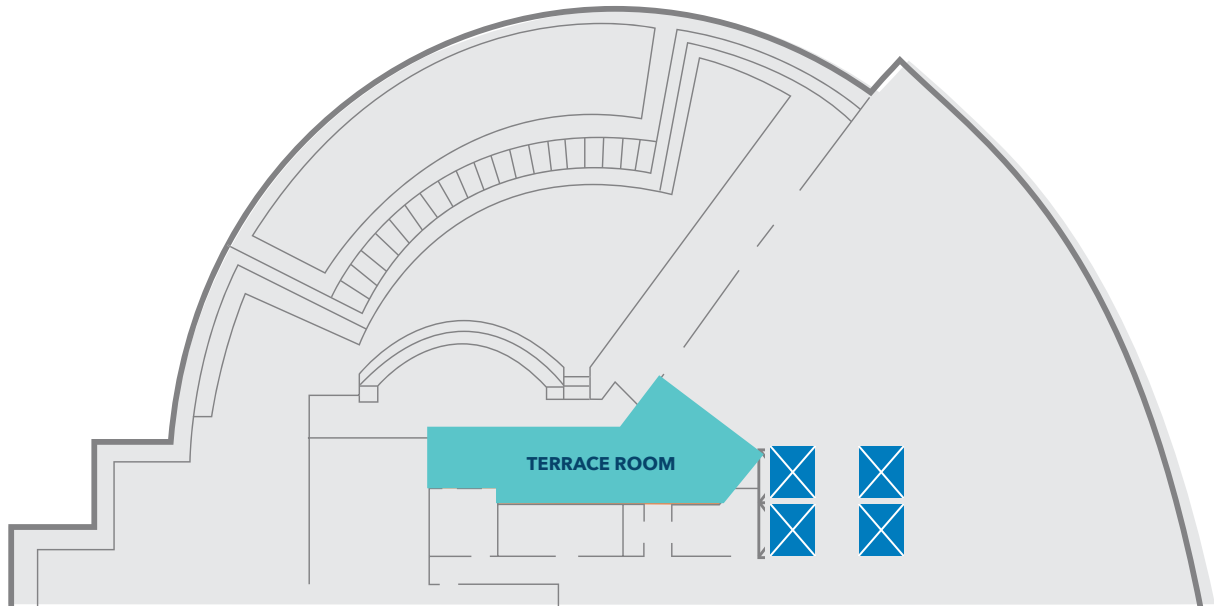
**CONCOURSE LEVEL**



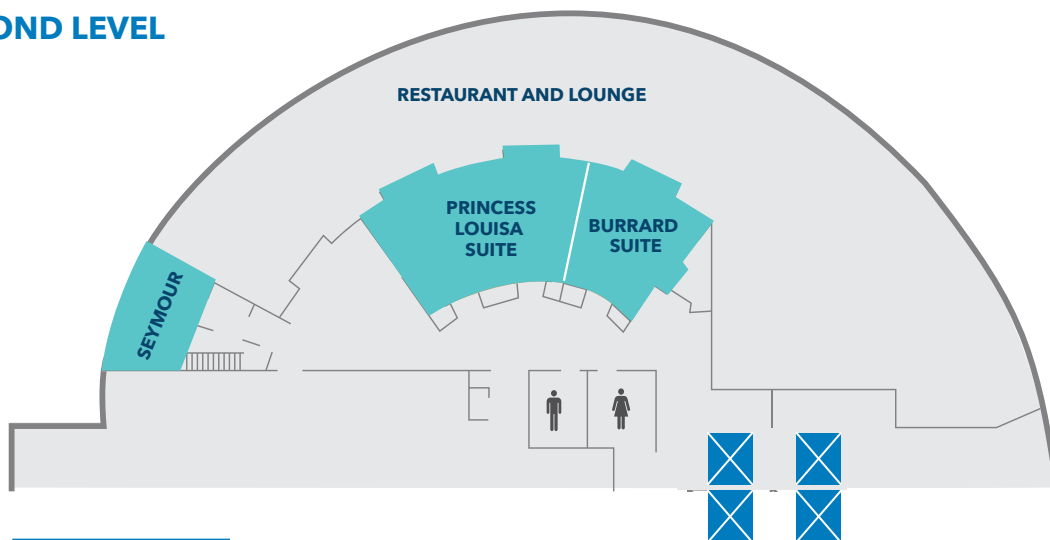
**KEY**

-  ESCALATOR
-  STAIRS
-  ELEVATOR
-  RESTROOMS

**FAIRMONT WATERFRONT  
TERRACE LEVEL**



**SECOND LEVEL**





## CAREER SERVICE

Would you like to explore career opportunities with top statistical employers? The 2018 Career Service, located in Hall A of the Vancouver Convention Centre, will give you the opportunity to research job postings and contact employers. Access is for registered applicants and employers only and interviews are by appointment.

To register, visit the main JSM registration area and ask to add the Career Service to your registration.

## CAREER SERVICE EMPLOYERS

Executive Suite Employers



### Additional Employers

- East China Normal University
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- Mayo Clinic
- National Security Agency
- School of Statistics, Southwestern University of Finance and Economics
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### Candidate Fees

ASA Student Member	\$85
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For a current list of employers, see [www.amstat.org/careerservice](http://www.amstat.org/careerservice).

# PROFESSIONAL DEVELOPMENT



All Professional Development (PD) courses are at the **Vancouver Convention Centre East Building**. An additional fee is charged for PD offerings. To add a course, go to the main registration desk in the **Vancouver Convention Centre West Building**.

	COURSE	TIME	ROOM	INSTRUCTOR(S)	TITLE
<b>SATURDAY JULY 28</b>	CE_01C (Two-day course)	8:30 a.m. - 5:00 p.m.	East Meeting Room 1	Garrett Grolemund	Master the Tidyverse: An Introduction to R for Data Science
	CE_02C	8:00 a.m. - 12:00 p.m.	East Meeting Room 11	Mine Çetinkaya-Rundel	Shiny Essentials
	CE_03C	8:30 a.m. - 5:00 p.m.	East Meeting Room 8	Gang Li/Robert Elashoff/Ning Li	Joint Modeling of Longitudinal and Time-to-Event Data
	CE_04C	8:30 a.m. - 5:00 p.m.	East Meeting Room 12	Jim Albert	Bayesian Thinking: Fundamentals, Computation, and Multilevel Modeling
	CE_05C	8:30 a.m. - 5:00 p.m.	East Meeting Room 13	Wei Pan/Haiyan Bai	Propensity Score Methods: Concepts and Applications
	CE_06C	8:30 a.m. - 5:00 p.m.	East Meeting Room 2/3	Charlotte Wickham	Advanced R
	CE_07C	1:00 p.m. - 5:00 p.m.	East Meeting Room 11	Lawrence Moulton	Introduction to the Design of Cluster Randomized Trials
<b>SUNDAY JULY 29</b>	CE_01C (Two-day course)	8:30 a.m. - 5:00 p.m.	East Meeting Room 1	Garrett Grolemund	Master the Tidyverse: An Introduction to R for Data Science
	CE_08C	8:00 a.m. - 12:00 p.m.	East Meeting Room 13	Curtis Huttenhower/Hongzhe Li	Statistical and Computational Methods and Software for Microbiome and Metagenomics and Applications
	CE_09C	8:30 a.m. - 5:00 p.m.	East Meeting Room 8	Frank Harrell	Regression Modeling Strategies
	CE_10C	8:30 a.m. - 5:00 p.m.	East Meeting Room 12	Wei-Yin Loh	Art and Practice of Regression Trees and Forests
	CE_11C	8:30 a.m. - 5:00 p.m.	East Meeting Room 11	Peter Müller/Byron Jones/Frank Bretz	Practical Considerations for Bayesian and Frequentist Adaptive Clinical Trials
	CE_12C	8:30 a.m. - 5:00 p.m.	East Meeting Room 2/3	E. James Harner	Data Science Workflows Using R and Spark
	CE_13C	1:00 p.m. - 5:00 p.m.	East Meeting Room 13	Dennis Lin	Topics in Design of Computer Experiment: Recent Advances in Latin Hypercube and Uniform Designs





# PROFESSIONAL DEVELOPMENT

	COURSE	TIME	ROOM	INSTRUCTOR(S)	TITLE
MONDAY JULY 30	CE_14C	8:00 a.m. – 12:00 p.m.	East Meeting Room 13	James Wagner	Adaptive Survey Design
	CE_15C	8:00 a.m. – 12:00 p.m.	East Meeting Room 2/3	Ludovic Trinquart/ Michael LaValley	Meta-Analysis for Biopharmaceutical and Public Health Research Using SAS
	CE_16C	8:30 a.m. – 5:00 p.m.	East Meeting Room 1	Jason Roy/Michael Daniels	Introduction to Bayesian Nonparametric Methods for Causal Inference
	CE_17C	8:30 a.m. – 5:00 p.m.	East Meeting Room 11	David Banks/Margaret Johnson	Nonparametric Regression and Classification for Modern Data Scientists
	CE_18C	8:30 a.m. – 5:00 p.m.	East Meeting Room 12	Kenneth Lange/Hua Zhou/Janet Sinsheimer/ Eric Sobel	Julia Meets Mendel: Algorithms and Software for Modern Genomic Data Analysis
	CE_19C	8:30 a.m. – 5:00 p.m.	East Meeting Room 8	Pankaj Choudhary/ Haikady Nagaraja	Analysis of Continuous and Categorical Method Comparison Data
	CE_20C	1:00 p.m. – 5:00 p.m.	East Meeting Room 2/3	Daniel Heitjan/Gui-Shuang Ying	Prediction in Event-Based Clinical Trials
	CE_21C	1:00 p.m. – 5:00 p.m.	East Meeting Room 13	Christina Kendziorski/ Rhonda Bacher/ Mingyao Li/Nancy Zhang	Statistical Methods for Single-Cell RNA-Seq Analysis
TUESDAY JULY 31	CE_22C	8:00 a.m. – 12:00 p.m.	East Meeting Room 11	Fang Chen	Practical Hierarchical Bayesian Modeling
	CE_23C	8:00 a.m. – 12:00 p.m.	East Meeting Room 13	Evan Carey	Health Care Analytics in the Presence of 'Big Data'
	CE_24C	8:30 a.m. – 5:00 p.m.	East Meeting Room 8	Noah Simon	Statistical Machine Learning for Biomedical Data
	CE_25C	8:30 a.m. – 5:00 p.m.	East Meeting Room 2/3	Devan Mehrotra/Alex Dmitrienko/Jeff Maca	Analysis of Clinical Trials: Theory and Applications
	CE_26C	8:30 a.m. – 5:00 p.m.	East Meeting Room 12	Tze Leung Lai/Hao Zou/ Ying Lu	Deep Learning, Prediction, and Validation: Innovations in Statistical Modeling and Applications to Medical/Health Big Data
	CE_27C	8:30 a.m. – 5:00 p.m.	East Meeting Room 1	Alan Agresti/Maria Kateri	Categorical Data Analysis
	CE_28C	1:00 p.m. – 5:00 p.m.	East Meeting Room 11	Rafael Irizarry	Data Science for Statisticians
	CE_29C	1:00 p.m. – 5:00 p.m.	East Meeting Room 13	Rebecca Andridge/ Katherine Jenny Thompson	Applications of Hot Deck Imputation Methods to Survey Data



## COMPUTER TECHNOLOGY WORKSHOPS

All Computer Technology Workshops are at the **Vancouver Convention Centre East Building**.

	COURSE	TIME	ROOM	INSTRUCTOR(S)	TITLE
WEDNESDAY AUGUST 1	CE_30T	8:00 a.m. - 9:45 a.m.	East Meeting Room 11	Pushpal Mukhopadhyay	Survey Data Imputation and Analysis Using SAS®
	CE_31T	8:00 a.m. - 9:45 a.m.	East Meeting Room 12	Ruth Hummel/ Clay Barker	A Thorough Course on Time-to-Event / Survival Analysis: From Descriptive Measures to Complex Modeling
	CE_32T	8:00 a.m. - 9:45 a.m.	East Meeting Room 13	Cheryl Pammer/ Mikhail Golovnya/ Charles Harrison	Empower Your Team and Yourself: Fast-Track to Statistical and Data Science Success Using Minitab's Predictive Modeling Capabilities
	CE_33T	10:00 a.m. - 11:45 a.m.	East Meeting Room 11	Changbin Guo	Advanced Methods for Survival Analysis Using SAS®
	CE_34T	10:00 a.m. - 11:45 a.m.	East Meeting Room 12	Ronan Fitzpatrick	Formalize the Use of Bayesian Methodology in Your Clinical Trial Framework with nQuery Advanced
	CE_35T	10:00 a.m. - 11:45 a.m.	East Meeting Room 13	Cheryl Pammer/ Mikhail Golovnya/ Charles Harrison	Optimizing Your Tuning Parameters to Quickly Achieve the Superior Model Accuracy Expected from Expert Data Scientists and Statisticians Using Minitab's Salford Predictive Modeler
	CE_36T	1:00 p.m. - 2:45 p.m.	East Meeting Room 11	Weijie Cai	Generalized Additive Modeling Using SAS®
	CE_37T	1:00 p.m. - 2:45 p.m.	East Meeting Room 12	Yulia Marchenko	Bayesian Analysis Using Stata
	CE_38T	1:00 p.m. - 2:45 p.m.	East Meeting Room 13	Cheryl Pammer/ Mikhail Golovnya/ Charles Harrison	Advanced Methods for Regression and Classification: Extend Your Modeling Toolkit Using Minitab's Suite of Tools
	CE_39T	3:00 p.m. - 4:45 p.m.	East Meeting Room 11	Yiu-Fai Yung	Propensity Score Analysis and Causal Effect Estimation Using SAS®

PStat-, GStat-, and A.Stat-accredited members in good standing with the ASA or SSC will receive a **20% discount** on Professional Development courses and workshops.

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## PERSONAL SKILLS DEVELOPMENT

Personal skills development (PSD) consists of courses, workshops, and panel discussions on topics such as effective communication, collaboration, leadership, and influence. All PSDs are at the **Vancouver Convention Centre East Building**, with the exception of the JSM Presentation Skills Workshop, which will be held in the **West Building, Meeting Room 115**.

COURSE	DATE	TIME	ROOM	INSTRUCTOR(S)	TITLE
CE_40P	Part I: Saturday, July 28 Part II: Sunday, July 29	1:00 p.m. – 6:30 p.m. 8:00 a.m. – 12:00 p.m.	East Meeting Room 15	Gary Sullivan/ Bonnie LaFleur	Preparing Statisticians for Leadership: How to See the Big Picture and Have More Influence
CE_41P*	Sunday, July 29	10:30 a.m. – 12:30 p.m.	West Meeting Room 115	Brian Wiens/ Richard De Veaux/ Scott Berry/ Christopher Nachtsheim/ William Li	JSM Presentation Skills Workshop ( <b>free event, no registration required</b> )
CE_42P*	Sunday, July 29	2:00 p.m. – 4:00 p.m.	East Meeting Room 10		Career Development: Equality in Leadership: Advocating and Embodying Equality in Leadership ( <b>free event, no registration required</b> )
CE_43P	Part I: Monday, July 30 Part II: Tuesday, July 31	8:00 a.m. – 12:00 p.m. 1:00 p.m. – 5:00 p.m.	East Meeting Room 15	Jennifer van Mullekom	Effective Presentations for Statisticians: Success = (PD)2
CE_44P		8:00 a.m. – 12:00 p.m.	East Meeting Room 15	Trevor Butterworth/ Elisabeth Eaves	Scientific Communication: How to Write an Op-Ed

To view complete Professional Development course descriptions, visit [www2.amstat.org/jsm](http://www2.amstat.org/jsm).

\* Free to all attendees. No registration or ticket required.



# ROUNDTABLES

For interesting discussion and a networking event that doesn't bust your wallet, register for an A.M. roundtable discussion, offered Monday through Wednesday from 7:00 a.m. – 8:15 a.m. **Tickets are just \$25.**

If early morning isn't your style, P.M. roundtables also offer great discussion and networking opportunities and are held Sunday through Wednesday from 12:30 p.m. – 1:50 p.m. **Tickets are \$45.**

Tickets for these events will be sold onsite until 2 p.m. the day before the occasion is scheduled, if the events are not already sold out.

Activity Number	Roundtable Number	Sponsor	Title	Presenter, Affiliation
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## SUNDAY, JULY 29

### Speaker with Lunch 12:30 - 1:50 p.m.(CC-West 201)

1	SL01	Statistical Partnerships Among Academe, Industry, and Government Committee	Some Thoughts on AIG from a Canadian Perspective	<b>Nancy Reid,</b> University of Toronto
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## MONDAY, JULY 30

### Roundtables with Coffee 7:00 - 8:15 a.m. (CC-West Ballroom D)

88	ML01	Biopharmaceutical Section	Evaluating Drug Combinations in the Discovery and Pre-Clinical Stage	<b>Jocelyn Sendeki</b>
	ML02		Composite Endpoints for Alzheimer's Disease Clinical Trials	<b>Steve Edland,</b> University of California, San Diego
89	ML03	Quality and Productivity Section	Dynamic Data Visualization	<b>Blanton Godfrey,</b> North Carolina State University
90	ML04	Section on Physical and Engineering Sciences	Putting the Green in Green Engineering with Data for Good	<b>David Corliss,</b> Peace-Work
91	ML05	Section on Risk Analysis	Variability, Risk, and Data Science	<b>Aric LaBarr,</b> Elder Research Inc.

#### Sunday's Lunch

Grilled herb and garlic-marinated chicken breast with roasted baby potatoes and vegetable julienne sauté, salad, rolls with butter, and iced tea. Chef's choice of vegetarian menu.

#### Monday's Breakfast

House-made pastries; seasonal fruit; assorted yogurts; and a cup of coffee, tea, or juice.





Activity Number	Roundtable Number	Sponsor	Title	Presenter, Affiliation
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## A.M. Roundtable Discussions (continued)

92	ML06	Section on Statistical Consulting	Finding Your Niche as a Private Consultant	<b>Kim Love, K. R.</b> Love Quantitative Consulting and Collaboration
	ML07		Optimization of Biostatistics Units in Health Centers	<b>Anne-Sophie Julien,</b> Research Centre of the CHU de Québec - Université Laval
93	ML08	Section on Statistics and the Environment	Statistical Challenges in the Analysis of Distributed Remote Sensing Data	<b>Amy Braverman,</b> Jet Propulsion Laboratory
94	ML09	Section on Statistics in Epidemiology	Interacting with a Mentor: Tips and Strategies for a Successful Relationship	<b>Sujata M. Patil,</b> Memorial Sloan Kettering Cancer Center

## Speaker with Lunch 12:30 - 1:50 p.m. (CC-West 201)

200	ML10	Section on Statistics in Sports	Is Joe Flacco Elite? Hierarchical Models for Player Evaluation in Team Sports	<b>Sam Ventura,</b> Pittsburgh Penguins
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## Roundtables with Lunch 12:30 - 1:50 p.m. (CC-West Ballroom D)

201	ML11	Biopharmaceutical Section	Challenges in Oncology Pragmatic Trials Using Real-World Evidence	<b>Zhe Zhang,</b> Pfizer Inc.
	ML12		Assessing Treatment Benefit in Patient-Centric Study Designs	<b>Jagadish Gogate,</b> Johnson & Johnson-Janssen R&D
	ML13		Standard Analyses and Displays for Common Clinical Trial Data: An Industry-Wide Initiative	<b>Mercidita Navarro,</b> Genentech
202	ML14	Committee on Professional Ethics	Philosophical and Ethical Issues in Statistics	<b>Brian Zaharatos</b>
203	ML15	Government Statistics Section	What if We Get a Break in Series? Risk Management in the Integration of Multiple Data Sources	<b>John L. Eltinge,</b> US Census Bureau

**Monday's Lunch**  
Oven-roasted Pacific cod with Provençal potatoes and fresh seasonal vegetables, salad, rolls with butter, and iced tea. Chef's choice of vegetarian menu.



# ROUNDTABLES

## MONDAY, JULY 30 CONTINUED

Activity Number	Roundtable Number	Sponsor	Title	Presenter, Affiliation
<b>P.M. Roundtable Discussions (continued)</b>				
204	ML16	Health Policy Statistics Section	Strengthening Partnerships in Community-Based Participatory Research by Demystifying Experimental Design and Statistical Analysis	<b>Thomas Belin,</b> University of California, Los Angeles
	ML17		N-of-1 Trials for Making Personalized Treatment Decisions	<b>Christopher Schmid,</b> Brown University
205	ML18	Mental Health Statistics Section	Statistical Challenges in Developing Data-Driven Discovery, Diagnosis, and Treatment of Psychiatric Diseases	<b>Thaddeus Tarpey,</b> Wright State University
206	ML19	Section on Statistical Consulting	How to Teach Essential Collaboration Skills to Undergraduate Statistics Majors	<b>Heather Smith,</b> Cal Poly
	ML20		Importance of Development of Soft Skills for Career Development for Statisticians in a Collaborative Environment	<b>Jayawant Mandrekar,</b> Mayo Clinic
207	ML21	Section on Statistical Graphics	Teaching Interactive Statistical Graphics	<b>Joyce Robbins,</b> Columbia University
208	ML22	Section on Statistics and the Environment	Global Estimation of Air Quality: Methods, Challenges, and Innovations	<b>Gavin Shaddick,</b> University of Exeter
209	ML23	Section on Statistics in Epidemiology	New Quasi-Experimental Devices for Observational Studies	<b>Dylan Small,</b> University of Pennsylvania
210	ML24	Section on Statistics in Imaging	Software, Tutorials, and Online Courses for Medical Imaging	<b>Ciprian Crainiceanu,</b> The Johns Hopkins University

To view complete roundtable descriptions, visit [ww2.amstat.org/jsm](http://ww2.amstat.org/jsm).



Activity Number	Roundtable Number	Sponsor	Title	Presenter, Affiliation
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## TUESDAY, JULY 31

### Roundtables with Coffee 7:00 - 8:15 a.m. (CC-West Ballroom D)

262	TL01	Biopharmaceutical Section	Clinical Trial Data Transparency and Patient Privacy	<b>Darcy Hille</b> , Merck & Co., Inc.
263	TL02	Caucus for Women in Statistics	Brainstorming Strategies for Dealing with Abuses of Power in the Statistics Community	<b>Nancy Flournoy</b> , University of Missouri
264	TL03	Health Policy Statistics Section	Completion Rates and Considerations for Analyses of Patient-Reported Outcomes in Open-Label Cancer Trials: FDA Review of Trials, 2007-2017	<b>Jessica K. Roydhouse</b> , US Food and Drug Administration
265	TL04	Section on Bayesian Statistical Science	Interpretable Statistical Machine Learning for Validation and Uncertainty Quantification of Complex Models	<b>Ana Kupresanin</b> , Lawrence Livermore National Laboratory
266	TL05	Section on Physical and Engineering Sciences	Real Experiences with Experimental Design: Composite Pressure Vessel Life Predict	<b>Anne Driscoll</b>
267	TL06	Section on Statistical Computing	Julia Versus R	<b>Paul McNicholas</b> , McMaster University
268	TL07	Section on Statistical Consulting	Becoming a Stats Star: How to Step Up and Overcome Your Fears to Lead Fruitful Collaborations	<b>Tamar Sofer</b> , Brigham and Women's Hospital
269	TL08	Section on Statistical Education	What's for Breakfast? How About Empiricism?	<b>Robert Carver</b> , Brandeis International Business School
270	TL09	Section on the Teaching of Statistics in the Health Sciences	Teaching Meta-Analysis for Health Scientists	<b>Laila Poisson</b>

### Tuesday's Breakfast

House-made pastries; seasonal fruit; assorted yogurts; and a cup of coffee, tea, or juice.



# ROUNDTABLES

## TUESDAY, JULY 31 CONTINUED

**Tuesday's Lunch**  
Grilled herb and garlic-marinated chicken breast with roasted baby potatoes and vegetable julienne sauté, salad, rolls with butter, and iced tea. Chef's choice of vegetarian menu.

Activity Number	Roundtable Number	Sponsor	Title	Presenter, Affiliation
<b>Speaker with Lunch 12:30 - 1:50 p.m. (CC-West 201)</b>				
369	TL10	Business and Economic Statistics Section	Through the Looking Glass: Has the Economy Turned Upside Down?	<b>Constance L. Hunter,</b> KPMG LLP
<b>Roundtables with Lunch 12:30 - 1:50 p.m. (CC-West Ballroom D)</b>				
370	TL11	Biopharmaceutical Section	Bayesian Methods in Real-World Evidence for Medicinal Product Development: Can Prior Distributions Provide a Platform for Creating Real-World Evidence?	<b>John Loewy,</b> Dataforethought
	TL12		Uncertainty vs. Ambiguity in Structured Benefit-Risk (BR) Assessment Decisions	<b>Shahrul Mt-Isa,</b> Merck & Co., Inc.
	TL13		The Importance of Protocol Objectives to the Statistical Analysis	<b>Richard McNally,</b> Covance-Chiltern
	TL14		Statistical and Regulatory Issues in Combining Potency Estimates from Multiple Bioassay Runs	<b>Stan Altan</b>
371	TL15	Committee on Applied Statisticians	How to Teach Essential Collaboration Skills	<b>Eric Vance,</b> LISA-University of Colorado Boulder
372	TL16	Government Statistics Section	Using the R Package: Recursive Partitioning for Modeling Survey Data (RPMS)	<b>Daniell Toth,</b> Bureau of Labor Statistics
373	TL17	Health Policy Statistics Section	From Theory to Practice: Applying Academic Solutions to Real-World Data	<b>K. Blayne Easter,</b> Depuy Synthes
	TL18		Exploring the Classification of the Urban-Rural Continuum: Issues and Opportunities	<b>Jason Brinkley,</b> Abt Associates Inc.
374	TL19	Mental Health Statistics Section	Causal Inference in the Era of Personalization: Handling Complexity with Simplicity	<b>Kosuke Imai,</b> Princeton University



Activity Number	Roundtable Number	Sponsor	Title	Presenter, Affiliation
375	TL20	Section on Statistical Consulting	Analytics for the Small to Medium Business	<b>Chuck Kincaid</b> , Experis BI & Analytics Practice
	TL21		Breaking Bad: Giving Negative News Positively	<b>Janet Wittes</b> , Statistics Collaborative
376	TL22	Section on Statistics in Epidemiology	The Role of Mobile Health in Precision Medicine	<b>Susan Murphy</b> , Harvard University
377	TL23	Section on Statistics in Imaging	Advanced Methods in Quantitative Imaging Analysis	<b>Hongtu Zhu, MD</b> , Anderson Cancer Center
378	TL24	Section on the Teaching of Statistics in the Health Sciences	Career Advice for Statistics Educators in the Health Sciences	<b>Felicity Enders</b> , Mayo Clinic
379	TL25	Survey Research Methods Section	Adaptive Design: Challenges in Practice	<b>Michael Yang</b> , NORC at the University of Chicago

## WEDNESDAY, AUGUST 1

### Roundtables with Coffee 7:00 - 8:15 a.m. (CC-West Ballroom D)

439	WL01	Biopharmaceutical Section	Practical Guidelines and User-Friendly Software for Bayesian Adaptive Designs	<b>J. Jack Lee, MD</b> , Anderson Cancer Center
440	WL02	Health Policy Statistics Section	What Is Patient Experience Data?	<b>Laura Lee Johnson</b> , FDA
441	WL03	Section on Medical Devices and Diagnostics	Actigraphy Data Within Clinical Trials: A Paradigm Shift on the Horizon?	<b>Laura Cole</b> , QST Consultations
442	WL04	Section on Physical and Engineering Sciences	Collaboration Techniques for Successfully Identifying and Modeling Sources of Variation	<b>Jonathan Stallings</b> , North Carolina State University
443	WL05	Section on Statistical Computing	Statistical and Computational Efficiency in Big Data Analytics	<b>Eric Laber</b> , North Carolina State University
444	WL06	Section on Statistical Consulting	Consulting to Collaboration Roundtable	<b>Emily Griffith</b> , North Carolina State University

### Wednesday's Breakfast

House-made pastries; seasonal fruit; assorted yogurts; and a cup of coffee, tea, or juice.



# ROUNDTABLES

## WEDNESDAY, AUGUST 1 CONTINUED

Activity Number	Roundtable Number	Sponsor	Title	Presenter, Affiliation
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### A.M. Roundtable Discussions (continued)

445	WL07	Section on Statistical Learning and Data Science	Data Science in Marketing Research	<b>Chen Teel</b> , Electronic Arts
446	WL08	Section on Statistics and the Environment	ENVR Mentoring Session	<b>Peter Craigmile</b> , The Ohio State University
447	WL09	Section on the Teaching of Statistics in the Health Sciences	DataFests for Reinforcing Concepts, Challenging Students, and Creating Community in the Health Sciences	<b>Jodi Lapidus</b> , Oregon Health & Science University

### Speaker with Lunch 12:30 - 1:50 p.m. (CC-West 201)

541	WL10	Health Policy Statistics Section	When Do We Really Need Randomized Clinical Trials?	<b>Christopher Hane</b> , OptumLabs
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### Roundtables with Lunch 12:30 - 1:50 p.m. (CC-West Ballroom D)

	WL11		Confessions of an Independent DMC Statistician	<b>Brian Cohen</b> , ACI Clinical
542	WL12	Biopharmaceutical Section	Active Reference vs. Active Comparator: What Should We Include to Design Late-Phase Studies?	<b>Suchitrita Rathmann</b> , Eli Lilly & Company
	WL13		Multiple Comparison Procedure: Modeling (MCP-Mod) Method Discussion	<b>Aijun Gao</b> , Chiltern, A Covance Company
543	WL14	Caucus for Women in Statistics	Thinking Big: Creating Global and Organizational Partnerships to Advance Women in Statistics	<b>Amanda L. Golbeck</b> , University of Arkansas for Medical Sciences
544	WL15	Government Statistics Section	Using Open-Source Software in Government Agencies	<b>Wendy L. Martinez</b> , Bureau of Labor Statistics

**Wednesday's Lunch**  
Chicken, ricotta, and spinach cannelloni with tomato and Alfredo sauces; garden vegetable selection; rolls with butter; and iced tea. Chef's choice of vegetarian menu.



Activity Number	Roundtable Number	Sponsor	Title	Presenter, Affiliation
545	WL16	Mental Health Statistics Section	Small Data, N-of-1 Trials, and Personalized Medicine	<b>Naihua Duan</b> , Columbia University
546	WL17	Quality and Productivity Section	Preparing Statistician to Successfully Data Scientist in Big Data Era	<b>Ming Li</b> , Amazon
547	WL18	Section on Physical and Engineering Sciences	Successful Implementation of Bayesian Adaptive Designs in Medical Device Clinical Studies	<b>Zengri Wang</b>
548	WL19	Section on Risk Analysis	Assessment of Environment, Social, and Governance Risk Data and Modeling in Businesses	<b>Sudipta Dasmohapatra</b> , Duke University
549	WL20	Section on Statistical Consulting	Consulting for Statistics Teachers: For Payment, as a Co-Author, or Just a Good Colleague?	<b>Richard Cleary</b>
	WL21		When Nonproportional Hazards Assumption Fails: Options, Opportunities, and Obstacles	<b>Ralph Turner</b>
550	WL22	Section on Statistical Graphics	Visualizing Uncertainty for the General Public	<b>Edward Mulrow</b> , NORC at the University of Chicago
551	WL23	Section on Statistics and the Environment	Building Strong Connections Among Environmental and Ecological Statisticians Working Outside of Academia	<b>Kathryn Irvine</b> , US Geological Survey
552	WL24	Section on Statistics in Epidemiology	Analysis of Interactions: Lessons Learned and Moving Forward	<b>Bhramar Mukherjee</b> , University of Michigan
553	WL25	Survey Research Methods Section	Nonprobability Sampling	<b>Karol Krotki</b> , RTI International

To view complete roundtable descriptions, visit [www2.amstat.org/jsm](http://www2.amstat.org/jsm).





# TECHNICAL SESSIONS

## SESSION SPONSOR KEY

Abbreviation	Sponsor
ACCCP	ASA Advisory Committee on Climate Change Policy
ACFS	Advisory Committee on Forensic Science
ASA	American Statistical Association
ASIG	Astrostatistics Special Interest Group
B&E	Business and Economic Statistics Section
BIOM	Biometrics Section
BIOP	Biopharmaceutical Section
CGLCS	ASA LGBT Concerns Committee
CANSSI	Canadian Statistical Sciences Institute
CAUWOM	Caucus for Women in Statistics
CCD	Committee on Career Development
CLJS	Committee on Law and Justice Statistics
CNSL	Section on Statistical Consulting
COC	Council of Chapters
COPSS	Committee of Presidents of Statistical Societies
Computing	Section on Statistical Computing
DEM	Deming Lectureship Committee
EDUC	Section on Statistical Education
ENAR	Eastern North American Region, International Biometric Society
ENVR	Section on Statistics and the Environment
EPI	Section on Statistics in Epidemiology
ETHICS	Committee on Professional Ethics
GM	General Methodology
GOVT	Government Statistics Section
GRPH	Section on Statistical Graphics
HPSS	Health Policy Statistics Section
ICSA	International Chinese Statistical Association
IISA	International Indian Statistical Association
IMAG	Section on Statistics in Imaging
IMS	Institute of Mathematical Statistics
ISBA	International Society for Bayesian Analysis
ISI	International Statistical Institute
JASA	JASA, Theory and Methods
JASAAPP	JASA, Applications and Case Studies
JSE	<i>Journal of Statistics Education</i>
JSMPs	JSM Partner Societies
KISS	Korean International Statistical Society
LDAIG	Lifetime Data Analysis Interest Group
MDD	Section on Medical Devices and Diagnostics

Abbreviation	Sponsor
MEM	Memorial
MHSS	Mental Health Statistics Section
MIN	Committee on Minorities in Statistics
MKTG	Section on Statistics in Marketing
MSR	Mu Sigma Rho
NOETHER	Noether Award Committee
NPAR	Section on Nonparametric Statistics
PRIV	Committee on Privacy and Confidentiality
Q&P	Quality and Productivity Section
RISK	Section on Risk Analysis
RSS	Royal Statistical Society
SA	Sirken Award
SAIG	Statistical Auditing Interest Group
SAMSI	Statistical and Applied Mathematical Sciences Institute
SBSS	Section on Bayesian Statistical Science
SDNS	Section on Statistics in Defense and National Security
SGG	Section on Statistics in Genomics and Genetics
SLDS	Section on Statistical Learning and Data Science
SOC	Social Statistics Section
SPAAC	Scientific and Public Affairs Advisory Committee
SPAIG	Statistical Partnerships Among Academe, Industry, and Government Committee
SPES	Section on Physical and Engineering Sciences
SPORTS	Section on Statistics in Sports
SRMS	Survey Research Methods Section
SSC	Statistical Society of Canada
SSPA	Section for Statistical Programmers and Analysts
SWB	Statistics without Borders
Stat Bus	Business Analytics/Statistics Education Interest Group
SXP	Statistics and Pharmacometrics Interest Group
TECH	<i>Technometrics</i>
TSHS	Section on Teaching of Statistics in the Health Sciences
TSIG	Transportation Statistics Interest Group
UQSIG	Uncertainty Quantification for Complex Systems Interest Group
WNAR	Western North American Region, International Biometric Society

# TECHNICAL SESSIONS



Vancouver Convention Centre = CC

Fairmont Waterfront = F

## SUNDAY, JULY 29

Sponsor	2:00 p.m.	4:00 p.m.	5:05 p.m.	8:30 p.m.
ACCCP		52 CC-West 206/207		
ACFS		53 CC-West 120		
B&E	30 CC-West 209 / 33 CC-West 115	64 CC-West 117 / 70 CC-West 116	86 CC-West Hall B	
BIOM	21 CC-West 217 / 27 CC-West 213 / 31 CC-West 218 / 32 CC-West 219	51 CC-West 214 / 68 CC-West 218 / 69 CC-West 219 / 83 CC-West Hall B		
BIOP	17 CC-West 306 / 20 CC-West 214 / 37 CC-West 304/305	44 CC-West 306 / 75 CC-West 222		
CANSSI	10 CC-West 122			
CNSL		49 CC-West 213		
COC	8 CC-West 120			
Computing	11 CC-West 206/207 / 28 CC-West 208	50 CC-West 122 / 84 CC-West Hall B		
EDUC	35 CC-East 9			
ENAR	13 CC-West 222 / 18 CC-West 215/216	43 CC-West 304/305		
ENVR	24 CC-West 117	62 CC-West 205 / 80 CC-West 204		
EPI	36 CC-West 221	45 CC-West 224		
GOVT	4 CC-East 10	58 CC-East 19 / 76 CC-East 17		
GRPH		55 CC-East 16		
HPSS	16 CC-West 118	60 CC-West 212		
ICSA		77 CC-West 223		
IMAG	14 CC-East 16 / 28 CC-West 208	61 CC-East 14 / 84 CC-West Hall B		
IMS	15 CC-West 109 / 34 CC-West 112	48 CC-West 109		
ISI		54 CC-West Ballroom A / 66 CC-West 221		
JSE	9 CC-West 202			
JSMPS	2 CC-West Ballroom A	42 CC-West 301		
MDD	38 CC-West 119			
MEM	3 CC-West 301			
MHSS	28 CC-West 208	71 CC-West 202 / 84 CC-West Hall B		
MKTG		73 CC-West 208		
NPAR	6 CC-West 121	56 CC-West 114 / 72 CC-West 115		
Q&P		65 CC-West 210		

**KEY**  
**30 CC-210**  
 30 = Session Number  
 CC = Building  
 210 = Room Number



# TECHNICAL SESSIONS

Vancouver Convention Centre = CC

Fairmont Waterfront = F

SUNDAY, JULY 29				
Sponsor	2:00 p.m.	4:00 p.m.	5:05 p.m.	8:30 p.m.
<b>SBSS</b>	7 CC-West 110	57 CC-West 110 / 78 CC-West 112		87 CC-West Hall B
<b>SDNS</b>		67 CC-West 118		
<b>SGG</b>	29 CC-West 212 / 40 CC-West 223	63 CC-West 215/216 / 81 CC-West 217	85 CC-West Hall B	
<b>SLDS</b>	23 CC-West 205 / 39 CC-West 204	46 CC-West 121 / 79 CC-West 119		
<b>SOC</b>	5 CC-East 19	59 CC-East 9		
<b>SPES</b>		82 CC-West 209		
<b>SRMS</b>	25 CC-East 14 / 41 CC-East 17	47 CC-East 10		
<b>SSC</b>				87 CC-West Hall B
<b>SSPA</b>	22 CC-West 210			
<b>TSHS</b>	26 CC-West 116	74 CC-West 203		
<b>WNAR</b>	12 CC-West 224			

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# TECHNICAL SESSIONS



Vancouver Convention Centre = CC

Fairmont Waterfront = F

MONDAY, JULY 30						
Sponsor	8:30 a.m.	10:30 a.m.	11:35 a.m.	2:00 p.m.	3:05 p.m.	4:00 p.m.
<b>ASA</b>						261 CC-West Ballroom BC
<b>B&amp;E</b>	109 CC-West 304/305	169 CC-East 19		221 CC-East 19		
<b>BIOM</b>	99 CC-West 211 / 123 CC-West 218	159 CC-West 219 / 162 CC-West 215/216 / 163 CC-West 212 / 168 CC-West 218		225 CC-West 219 / 233 CC-West 204 / 239 CC-West 218 / 240 CC-West 217 / 257 CC-West Hall B		
<b>BIOP</b>	108 CC-West 214 / 110 CC-West 215/216 / 122 CC-West 219 / 129 CC-West 210	140 CC-West 211 / 174 CC-West 210		226 CC-West 214 / 228 CC-West 215/216 / 238 CC-West 209 / 247 CC-West 205 / 248 CC-West 119		
<b>CGLCS</b>		182 CC-West Hall B				
<b>CNSL</b>	127 CC-East 9	145 CC-West 204				
<b>Computing</b>	131 CC-West 117	167 CC-West 114 / 176 CC-West 112		214 CC-West 110 / 253 CC-West Hall B		
<b>EDUC</b>	118 CC-West 209 / 128 CC-West 115	153 CC-West 202 / 181 CC-West Hall B / 196 CC-West Hall B		212 CC-West 109		
<b>ENAR</b>	100 CC-West 217	138 CC-West 214		216 CC-West 206/207		
<b>ENVR</b>	96 CC-East 10 / 121 CC-West 212	144 CC-East 9 / 165 CC-West 208 / 192 CC-West Hall B	199 CC-West Hall B	251 CC-East 14	259 CC-West Hall B	
<b>EPI</b>	105 CC-West 206/207	164 CC-West 209 / 179 CC-West 222		227 CC-West 203 / 244 CC-West 202 / 258 CC-West Hall B		
<b>ETHICS</b>	97 CC-West 306					
<b>GM</b>		149 CC-West 301				

**KEY**  
**30** CC-210  
 30 = Session Number  
 CC = Building  
 210 = Room Number



# TECHNICAL SESSIONS

Vancouver Convention Centre = CC

Fairmont Waterfront = F

MONDAY, JULY 30						
Sponsor	8:30 a.m.	10:30 a.m.	11:35 a.m.	2:00 p.m.	3:05 p.m.	4:00 p.m.
<b>GOVT</b>	130 CC-West 114	155 CC-West 203		231 CC-West 114		
<b>GRPH</b>	104 CC-West 110	191 CC-West Hall B				
<b>HPSS</b>	119 CC-West 213 / 124 CC-East 17	161 CC-East 10 / 197 CC-West Hall B		220 CC-East 17		
<b>ICSA</b>		152 CC-West 205 / 184 CC-West Hall B				
<b>IISA</b>		141 CC-West 306				
<b>IMAG</b>		173 CC-West 121		243 CC-West 121		
<b>IMS</b>	106 CC-West 222	146 CC-West 119 / 158 CC-West 120 / 170 CC-West 116 / 183 CC-West Hall B		223 CC-West 306 / 242 CC-West 304/305		
<b>ISBA</b>				230 CC-West 223		
<b>ISI</b>		185 CC-West Hall B				
<b>JASA</b>	107 CC-West 301					
<b>JSMPS</b>	95 CC-West Ballroom A	137 CC-West Ballroom A		211 CC-West Ballroom A		
<b>KISS</b>		187 CC-West Hall B				
<b>LDAIG</b>	113 CC-West 202					
<b>MDD</b>		150 CC-East 17				
<b>MEM</b>				224 CC-West 301		
<b>MHSS</b>	111 CC-East 16			217 CC-East 16		
<b>MKTG</b>	101 CC-West 121					
<b>NPAR</b>	115 CC-West 221 / 120 CC-West 208 / 125 CC-West 223	171 CC-West 117 / 188 CC-West Hall B	198 CC-West Hall B	215 CC-West 224		
<b>Q&amp;P</b>				229 CC-East 9		
<b>RISK</b>		172 CC-East 16 / 190 CC-West Hall B		222 CC-West 116		

# TECHNICAL SESSIONS



MONDAY, JULY 30						
Sponsor	8:30 a.m.	10:30 a.m.	11:35 a.m.	2:00 p.m.	3:05 p.m.	4:00 p.m.
<b>RSS</b>	112 CC-West 122					
<b>SAMSI</b>	102 CC-West 203					
<b>SBSS</b>	98 CC-West 224	151 CC-West 224 / 166 CC-West 213 / 175 CC-West 223		234 CC-West 222 / 249 CC-West 221 / 256 CC-West Hall B	260 CC-West Hall B	
<b>SDNS</b>		139 CC-West 109		232 CC-West 117		
<b>SGG</b>	133 CC-West 205 / 134 CC-West 204	178 CC-West 221		218 CC-West 213 / 246 CC-West 120		
<b>SLDS</b>	116 CC-West 120 / 132 CC-West 119	147 CC-West 110 / 177 CC-West 111		236 CC-West 212 / 241 CC-West 210 / 250 CC-West 111 / 254 CC-West Hall B		
<b>SOC</b>	136 CC-West 112	157 CC-West 115		219 CC-West 118		
<b>SPES</b>	126 CC-East 14	156 CC-East 14 / 189 CC-West Hall B		213 CC-East 10		
<b>SPORTS</b>		154 CC-West 122 / 193 CC-West Hall B				
<b>SRMS</b>	114 CC-West 109 / 135 CC-West 111	148 CC-West 118		235 CC-West 115 / 237 CC-West 208 / 252 CC-West 112		
<b>SSC</b>		143 CC-West 206/207 / 194 CC-West Hall B		245 CC-West 122		
<b>SSPA</b>	117 CC-West 118			255 CC-West Hall B		
<b>TSHS</b>	103 CC-East 19	180 CC-West Hall B				
<b>UQSIG</b>		160 CC-West 304/305 / 195 CC-West Hall B				
<b>WNAR</b>		142 CC-West 217				

**KEY**  
**30 CC-210**  
 30 = Session Number  
 CC = Building  
 210 = Room Number



# TECHNICAL SESSIONS

Vancouver Convention Centre = CC

Fairmont Waterfront = F

TUESDAY, JULY 31								
Sponsor	8:30 a.m.	9:25 a.m.	10:30 a.m.	11:35 a.m.	2:00 p.m.	3:05 p.m.	4:00 p.m.	8:00 p.m.
<b>ACFS</b>	291 CC-West 112							
<b>ASA</b>								438 CC-West Ballroom BC
<b>ASIG</b>			334 CC-East 9					
<b>B&amp;E</b>	280 CC-East 19		330 CC-East 19		411 CC-West 116 / 426 CC-West Hall B			
<b>BIOM</b>	277 CC-West 224 / 299 CC-West 212 / 302 CC-West 223		335 CC-West 221 / 337 CC-West 222 / 343 CC-West 213 / 344 CC-West 223 / 358 CC-West Hall B / 366 CC-West Hall B		399 CC-West 115 / 401 CC-West 114 / 409 CC-West 111 / 410 CC-West 112	436 CC-West Hall B		
<b>BIOP</b>	286 CC-West 120 / 290 CC-West 301 / 301 CC-West 213 / 307 CC-West 221 / 308 CC-West 304/305	315 CC-West Hall B	336 CC-West 224 / 338 CC-West 214 / 343 CC-West 213 / 350 CC-West 304/305 / 351 CC-West 219 / 359 CC-West Hall B	368 CC-West Hall B	385 CC-West 110 / 416 CC-West 121	436 CC-West Hall B		
<b>CAUWOM</b>			327 CC-West 215/216					
<b>CLJS</b>	284 CC-West 215/216							
<b>CNSL</b>			328 CC-East 10		404 CC-West 211 / 430 CC-West Hall B			
<b>COC</b>			322 CC-West 109					



# TECHNICAL SESSIONS



TUESDAY, JULY 31								
Sponsor	8:30 a.m.	9:25 a.m.	10:30 a.m.	11:35 a.m.	2:00 p.m.	3:05 p.m.	4:00 p.m.	8:00 p.m.
<b>Computing</b>	288 CC-West 109		353 CC-West 122		390 CC-West Ballroom A			
<b>DEM</b>							437 CC-West Ballroom BC	
<b>EDUC</b>	287 CC-West 210		348 CC-West 112		380 CC-West 206/207			
<b>ENAR</b>	296 CC-West 121		331 CC-West 206/207 / 360 CC-West Hall B		386 CC-West 119			
<b>ENVR</b>	311 CC-West 114		317 CC-West 301		395 CC-West 304/305 / 423 CC-West 221			
<b>EPI</b>	294 CC-West 122 / 300 CC-West 209 / 306 CC-West 119		349 CC-West 202	367 CC-West Hall B	383 CC-West 109			
<b>GM</b>	272 CC-West 214							
<b>GOVT</b>	282 CC-West 211 / 298 CC-West 208		332 CC-West 114 / 365 CC-West Hall B		417 CC-West 208 / 427 CC-West Hall B			
<b>GRPH</b>			323 CC-West 203		403 CC-West 118			
<b>HPSS</b>	303 CC-West 115		325 CC-West 110		402 CC-West 204 / 428 CC-West Hall B			
<b>ICSA</b>			321 CC-West 306		418 CC-East 17			
<b>IISA</b>					391 CC-West 224			
<b>IMAG</b>	273 CC-West 206/207				398 CC-West 205			
<b>IMS</b>	285 CC-West 219		320 CC-West 118 / 345 CC-West 117		387 CC-West 213 / 412 CC-West 219			
<b>ISBA</b>					421 CC-West 218			

**KEY**  
**30 CC-210**  
 30 = Session Number  
 CC = Building  
 210 = Room Number



# TECHNICAL SESSIONS

Vancouver Convention Centre = CC

Fairmont Waterfront = F

TUESDAY, JULY 31								
Sponsor	8:30 a.m.	9:25 a.m.	10:30 a.m.	11:35 a.m.	2:00 p.m.	3:05 p.m.	4:00 p.m.	8:00 p.m.
<b>ISI</b>	304 CC-East 17							
<b>JSMPS</b>	271 CC-West Ballroom A		316 CC-West Ballroom A					
<b>KISS</b>			352 CC-East 14					
<b>MDD</b>	278 CC-West 116		364 CC-West Hall B		420 CC-West 202			
<b>MEM</b>					392 CC-West 306			
<b>MHSS</b>			362 CC-West Hall B		394 CC-West 203			
<b>MKTG</b>					405 CC-West 215/216 / 432 CC-West Hall B			
<b>NPAR</b>	305 CC-West 117		333 CC-West 116 / 346 CC-West 115		381 CC-West 212			
<b>Q&amp;P</b>			324 CC-East 17		396 CC-West 117 / 429 CC-West Hall B			
<b>RISK</b>					382 CC-West 120			
<b>RSS</b>	293 CC-East 14							
<b>SAIG</b>					406 CC-East 10			
<b>SBSS</b>	297 CC-West 202 / 309 CC-West 203		319 CC-West 120		400 CC-West 217 / 419 CC-West 214			
<b>SGG</b>	299 CC-West 212 / 312 CC-West 218		355 CC-West 218 / 356 CC-West 217 / 366 CC-West Hall B		388 CC-West 122			

# TECHNICAL SESSIONS



## TUESDAY, JULY 31

Sponsor	8:30 a.m.	9:25 a.m.	10:30 a.m.	11:35 a.m.	2:00 p.m.	3:05 p.m.	4:00 p.m.	8:00 p.m.
<b>SLDS</b>	274 CC-West 110 / 310 CC-West 111		329 CC- West 121 / 341 CC- West 212 / 354 CC- West 119		422 CC-West 223 / 434 CC- West Hall B			
<b>SOC</b>			326 CC- West 210		407 CC-West 210 / 424 CC- West Hall B			
<b>SPAAC</b>					408 CC-West Hall B			
<b>SPES</b>	289 CC-East 10		347 CC-East 16		393 CC-West 301			
<b>SPORTS</b>			342 CC- West 209		413 CC-East 14	435 CC- West Hall B		
<b>SRMS</b>	292 CC-West 205 / 298 CC-West 208 / 313 CC- West 204	314 CC- West Hall B	339 CC- West 205 / 340 CC-West 208 / 357 CC-West 204 / 365 CC-West Hall B		389 CC-West 209 / 425 CC- West Hall B / 433 CC-West Hall B			
<b>SSC</b>	275 CC-East 9		342 CC- West 209		397 CC-East 19 / 414 CC- East 16	435 CC- West Hall B		
<b>SSPA</b>	283 CC-West 118							
<b>SXP</b>			363 CC- West Hall B					
<b>TECH</b>	279 CC-West 306							
<b>TSHS</b>	295 CC-West 217							
<b>TSIG</b>					415 CC-East 9 / 431 CC- West Hall B			
<b>WNAR</b>	276 CC-West 222		318 CC- West 211 / 361 CC- West Hall B					

### KEY

**30 CC-210**

30 = Session Number

CC = Building

210 = Room Number



# TECHNICAL SESSIONS

Vancouver Convention Centre = CC

Fairmont Waterfront = F

WEDNESDAY, AUGUST 1					
Sponsor	8:30 a.m.	10:30 a.m.	11:35 a.m.	2:00 p.m.	4:00 p.m.
<b>B&amp;E</b>	480 CC-West 221	492 CC-West 222		576 CC-East 16	
<b>BIOM</b>	467 CC-West 122 / 478 CC-West 117 / 479 CC- West 116	504 CC-West 110 / 520 CC-West 114 / 521 CC- West 112		554 CC-West 301 / 582 CC-West 223	
<b>BIOP</b>	468 CC-West 120 / 469 CC-West 119 / 476 CC- West 212 / 483 CC-West 115 / 484 CC-West 121	511 CC-West 212 / 515 CC-West 109 / 524 CC- West 111 / 525 CC-West 209	540 CC-West Hall B	568 CC-West 118 / 590 CC-West 119	
<b>CAUWOM</b>				557 CC-West 306	
<b>CCD</b>		519 CC-West 210			
<b>CNSL</b>		516 CC-West 202		560 CC-East 19	
<b>COPSS</b>					597 CC-West Ballroom BC
<b>Computing</b>	486 CC-West 219	497 CC-West 121		571 CC-West 115 / 581 CC-West 114 / 593 CC- West 112	
<b>EDUC</b>	471 CC-West 205	523 CC-West 217		558 CC-West 212	
<b>ENAR</b>	452 CC-West 109	494 CC-West Ballroom A		556 CC-West 122	
<b>ENVR</b>	488 CC-West 218	513 CC-West 204		559 CC-West 208	
<b>EPI</b>	474 CC-West 209 / 482 CC-West 114	505 CC-West 206/207 / 534 CC-West Hall B / 537 CC-West Hall B		555 CC-West 224	
<b>GOVT</b>	463 CC-West 206/207	495 CC-West 224		580 CC-West 210 / 591 CC-West 213	
<b>GRPH</b>	461 CC-West 202			588 CC-West 202	
<b>HPSS</b>	473 CC-West 214	491 CC-West 213		583 CC-West 209	
<b>ICSA</b>		498 CC-West 122		592 CC-East 9	
<b>IISA</b>	464 CC-West 304/305				

# TECHNICAL SESSIONS



WEDNESDAY, AUGUST 1					
Sponsor	8:30 a.m.	10:30 a.m.	11:35 a.m.	2:00 p.m.	4:00 p.m.
<b>IMAG</b>		518 CC-West 214 / 536 CC-West Hall B		562 CC-West 304/305	
<b>IMS</b>	455 CC-East 16	510 CC-East 16		564 CC-West Ballroom A / 566 CC-West 215/216 / 584 CC-West 218	
<b>ISBA</b>	472 CC-East 14	501 CC-East 19			
<b>JASAAPP</b>				565 CC-West 109	
<b>JSMPS</b>	448 CC-West Ballroom A				
<b>KISS</b>		506 CC-West 304/305			
<b>MDD</b>		527 CC-West 208		575 CC-West 214	
<b>MHSS</b>	458 CC-West 211	517 CC-West 205			
<b>MIN</b>	459 CC-West 118				
<b>MKTG</b>				574 CC-East 17	
<b>MSR</b>				567 CC-West 211	
<b>NOETHER</b>		499 CC-West 211			
<b>NPAR</b>	449 CC-East 10	522 CC-East 9		570 CC-West 222 / 585 CC-West 219	
<b>Q&amp;P</b>	481 CC-West 223				
<b>RISK</b>	466 CC-West 222			587 CC-West 117	
<b>RSS</b>				573 CC-West 120	
<b>SA</b>		500 CC-West 301			
<b>SBSS</b>	470 CC-East 17 / 477 CC-West 213 / 485 CC-East 19	507 CC-East 14 / 526 CC-East 17	539 CC-West Hall B	561 CC-West 217	

## KEY

**30 CC-210**

30 = Session Number CC = Building 210 = Room Number



# TECHNICAL SESSIONS

Vancouver Convention Centre = CC

Fairmont Waterfront = F

## WEDNESDAY, AUGUST 1

Sponsor	8:30 a.m.	10:30 a.m.	11:35 a.m.	2:00 p.m.	4:00 p.m.
<b>SDNS</b>				589 CC-West 116	
<b>SGG</b>	489 CC-West 112 / 490 CC-West 111	514 CC-West 115 / 530 CC-West 116 / 535 CC-West Hall B		595 CC-West 221	
<b>SLDS</b>	453 CC-West 215/216 / 487 CC-West 217	528 CC-West 119 / 529 CC-West 117 / 533 CC-West 120		577 CC-West 110 / 594 CC-West 111	
<b>SOC</b>	465 CC-West 204 / 475 CC-West 208	532 CC-West 223 / 538 CC-West Hall B		563 CC-West 206/207	
<b>SPES</b>	457 CC-West 224	509 CC-West 203		586 CC-East 14	
<b>SPORTS</b>	451 CC-West 301				
<b>SRMS</b>	450 CC-West 203	508 CC-West 221 / 512 CC-West 219 / 531 CC-West 218		572 CC-West 203 / 578 CC-West 204 / 596 CC-West 205	
<b>SSC</b>		493 CC-West 306			
<b>SSPA</b>		502 CC-West 118			
<b>SWB</b>	460 CC-West 210				
<b>Stat Bus</b>				579 CC-East 10	
<b>TSHS</b>		496 CC-West 215/216			
<b>TSIG</b>	462 CC-East 9	503 CC-East 10			
<b>WNAR</b>	454 CC-West 110			569 CC-West 121	

### KEY

**30 CC-210**

30 = Session Number CC = Building 210 = Room Number

# TECHNICAL SESSIONS



## THURSDAY, AUGUST 2

Sponsor	8:30 a.m.	10:30 a.m.
<b>B&amp;E</b>	605 CC-West 116	660 CC-East 17
<b>BIOM</b>	608 CC-West 213 / 625 CC-West 112	655 CC-West 116 / 658 CC-West 122
<b>BIOP</b>	614 CC-West 110 / 617 CC-West 214 / 631 CC-West 114 / 632 CC-West 115	656 CC-West 110 / 664 CC-West 118 / 673 CC-West 120 / 674 CC-West 119
<b>CGLCS</b>		647 CC-East 16
<b>CNSL</b>	607 CC-West 117	663 CC-East 19
<b>Computing</b>	621 CC-West 224	644 CC-West 211
<b>EDUC</b>	624 CC-West 210	651 CC-West 203
<b>ENAR</b>	603 CC-West 109 / 620 CC-West 215/216	639 CC-West 224
<b>ENVR</b>	619 CC-East 19 / 636 CC-East 17	661 CC-West 222 / 678 CC-West 223
<b>EPI</b>	606 CC-West 212	652 CC-West 109 / 672 CC-West 115
<b>GOVT</b>	622 CC-West 211 / 633 CC-West 208	
<b>GRPH</b>	610 CC-West 118	671 CC-West 304/305
<b>HPSS</b>	626 CC-East 16	648 CC-West 215/216
<b>ICSA</b>		654 CC-East 9
<b>IMAG</b>		657 CC-West 204
<b>IMS</b>	602 CC-West 222 / 627 CC-West 221	645 CC-West 217 / 667 CC-West 218
<b>ISBA</b>	601 CC-West 122	
<b>ISI</b>		649 CC-West 212
<b>MDD</b>		676 CC-West 221
<b>MEM</b>	599 CC-West 217	641 CC-West 306
<b>MHSS</b>	628 CC-East 14	
<b>NPAR</b>	616 CC-West 219 / 629 CC-West 218	640 CC-West 206/207 / 669 CC-West 219
<b>PRIV</b>	612 CC-West 202	
<b>Q&amp;P</b>		670 CC-East 14
<b>RISK</b>	618 CC-West 223	665 CC-West 210
<b>SBSS</b>	611 CC-West 203 / 634 CC-West 204 / 638 CC-West 205	653 CC-West 213 / 666 CC-West 214
<b>SDNS</b>	630 CC-East 9	
<b>SGG</b>		679 CC-West 114





# TECHNICAL SESSIONS

Vancouver Convention Centre = CC

Fairmont Waterfront = F

THURSDAY, AUGUST 2		
Sponsor	8:30 a.m.	10:30 a.m.
<b>SLDS</b>	609 CC-West 301 / 635 CC-West 304/305	642 CC-West 301 / 677 CC-West 111
<b>SOC</b>	613 CC-West 209	650 CC-West 202
<b>SPAIG</b>	598 CC-West 306	
<b>SPES</b>		646 CC-East 10
<b>SRMS</b>	615 CC-West 120 / 637 CC-West 119	662 CC-West 205 / 675 CC-West 208 / 680 CC-West 209
<b>SSC</b>	600 CC-West 121	
<b>SSPA</b>		668 CC-West 112
<b>SXP</b>		659 CC-West 121
<b>TSHS</b>	623 CC-East 10	

## KEY

30 CC-210

30 = Session Number CC = Building 210 = Room Number

WiFi is available!



## VANCOUVER CONVENTION CENTRE

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