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

\*Indicates the founding societies of JSM



# Explore the program via the official JSM 2019 app!

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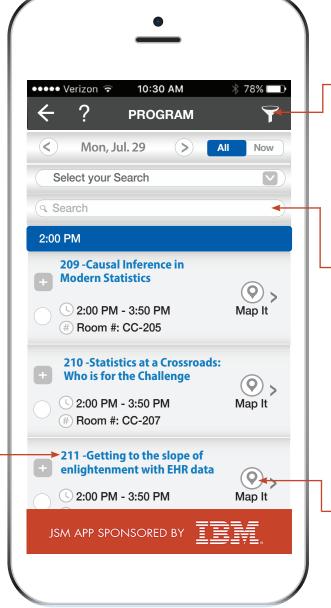


Looking for the complete JSM program schedule and abstracts? Just click the Program icon!

Scroll through all JSM sessions, the Professional Development program, business and committee meetings, and JSM hours and events by day.

Want to read a speaker's abstract before attending their talk? Tap

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



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



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

- Simply select "Contributed Speed" from the filter options—and *voila!*
- Trying to find something specific? Search for a speaker or find an abstract via keyword or session title.

You can even filter your search for specific sponsors or session type!

#### Not sure where a room is located? just

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

# Don

#### Don't forget to leave feedback

about the presentations you see. Just click the "Thumbs-Up" icon above the abstract text in the app.

# **Good to Know**

#### **JSM** OCENT AND HERE TO HELP! DO Questi learn th

# **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.



Password: abbvie19

#### PLEASE READ

the complete conduct policy before attending: www.amstat.org/ASA/ Meetings/Meeting-Conduct-Policy.aspx.

#### Emergency Telephone Messages

In case of emergency, messages may be left during registration hours by calling (303) 228-8325. 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 2019.

Arrangements should have been made in advance. Please contact Kiddie Corp at (858) 455-1718 or *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

The Colorado Convention Center has single stream recycling throughout the facility and a back of house compost collec-

tion program to help minimize the amount of materials hauled to landfills. In addition, there is



an advanced donation program for left-over conference materials. Items collected are stored in an onsite reclaim room and offered to local organizations for use.

#### Activities 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.





#### **JSM Proceedings**

Eligibility guidelines and author instructions for JSM 2019 presenters are available at www. *amstat.org/meetings/jsm/* 2019/proceedings.cfm. The submission site will be open August 27, 2019, through September 30, 2019 (11:59 p.m. EDT).

# **JSM CHALLENGE**

Take the JSM Challenge via the JSM 2019 app! Earn points for each question you answer and task you complete to win prizes at the end of the week! The JSM Challenge runs Saturday through Thursday, with new questions and tasks each day. Prizes will be awarded to the top four participants on the leaderboard within the JSM app as of noon Thursday. And if enough attendees participate, we'll add glow sticks to the JSM Dance Party!

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 www.tripbuilder.net/html5/jsm2019.





# 



# About DiDi Chuxing

Didi Chuxing is the world's leading mobile transportation platform. DiDi is committed to work with communities and partners to solve the world's transportation, environmental and employment challenges using big data-driven deep-learning algorithms. By continuously improving the user experience and creating social value. DiDi strives to build an open, efficient, and sustainable transportation ecosystem.

### DiDi @ JSM 2019

DiDi will present at JSM 2019 with Invited Paper, Contributed Papers, Poster & Oral Presentations, Booth Talks, and Career Services.

Meet us at booth #335 and chat with our researchers!

Find out more online at www.didiglobal. com





# **Hours of Operation**

#### Registration and ASA Membership/Help Desk/Press Desk CC-D Lobby

**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.



**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-Hall D

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)

#### EXPO 2019 and ASA Store CC-Hall C

**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-D Lobby

**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.

#### JSM Luggage Storage CC-D Lobby

**Wednesday** 8:00 a.m. – 6:30 p.m.

**Thursday** 8:00 a.m. – 1:00 p.m.



#### Denver Restaurant & Tourism Information Center CC-F Lobby

**Saturday – Wednesday** 10:00 a.m. – 5:00 p.m.

#### Quiet Reflection Room CC-206 Sunday CC-202 Monday–Thursday

**Sunday** 7:30 a.m. – 10:30 p.m.

**Monday** 7:00 a.m. – 11:00 p.m.

**Tuesday** 7:00 a.m. – 9:30 p.m.

**Wednesday** 7:00 a.m. – 6:30 p.m.

**Thursday** 7:30 a.m. – 12:00 p.m.

JSM is pleased to provide this space for brief prayer, meditation, or individual reflection. The room is available to all attendees while open and cannot be reserved for private use. Please respect these guidelines and the rights of all persons while using the space. This includes adhering to the Activities Conduct Policy.

LEGEND:

CC = Colorado Convention Center H = Hyatt Regency Denver at Colorado Convention Center

# **Featured Speakers**

# SUNDAY, JULY 28



#### **IMS Medallion Lecture I**

4:00 p.m. • CC-607

On Statistical Thinking in Deep Learning YEE WHYE TEH University of Oxford



#### **JSM Public Lecture**

6:00 p.m. • CC-Four Seasons 1

Data Tripper: Distinguishing Authorship of Beatles Songs Through Data Science

MARK GLICKMAN Harvard University

# MONDAY, JULY 29



#### IMS Medallion Lecture II 8:30 a.m. • CC-207

Learning and Exploiting Low-Dimensional Structure in High-Dimensional Data

DAVID DUNSON Duke University



#### **IMS Wald Lecture I**

10:30 a.m. • CC-Four Seasons 1

Statistical Learning with Sparsity TREVOR J. HASTIE Stanford University



#### IMS Medallion Lecture III 2:00 p.m. • CC-201

Breaking Curse of Dimensionality in Nonparametrics

HELEN ZHANG University of Arizona



#### ASA President's Invited Address 4:00 p.m. • CC-Four Seasons 2–4

Coming to Our Census: How Social Statistics Underpin Our Democracy (and Republic)

**TERESA A. SULLIVAN** University of Virginia (Emerita)



#### IMS Presidential Address and Awards Ceremony

8:00 p.m. • CC-Four Seasons 1

011, 010111, & 011111100100

XIAO-LI MENG Harvard University

# TUESDAY, JULY 30



#### IMS Rietz Lecture 10:30 a.m. • CC-207 Selective Inference: The Silent

Killer of Replicability YOAV BENJAMINI Tel Aviv University



# IMS Wald Lecture II

2:00 p.m. • CC-Four Seasons 1

Statistical Learning with Sparsity TREVOR J. HASTIE Stanford University Follow us on Twitter @AmstatNews Use #JSM2019



ASA Deming Lecture 4:00 p.m.• CC-Four Seasons 2–4 Walking with Giants: A Research Odyssey NICHOLAS FISHER University of Sydney



ASA President's Address and Awards 8:00 p.m.• CC-Four Seasons 2-4

Reinforcing the Impact of Statistics on Society

KAREN KAFADAR University of Virginia

# WEDNESDAY, JULY 31



IMS Medallion Lecture IV 8:30 a.m. • CC-607

Hierarchical Communities in Networks: Theory and Practice

**ELIZAVETA LEVINA** University of Michigan



#### IMS Wald Lecture III 10:30 a.m. • CC-Four Seasons 1

Statistical Learning

with Sparsity TREVOR J. HASTIE Stanford University



#### COPSS Awards and Fisher Lecture 4:00 p.m. • CC-Four Seasons 2–4

An Observational Study Used to Illustrate Methodology for Such Studies

**PAUL ROSENBAUM** University of Pennsylvania

# **Featured Events**

# FIRST TIMER

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

Sunday, July 28, 12:30 p.m. – 2:00 p.m. H-Centennial Ballrooms D–E

Join fellow first-timers at this orientation reception and learn how to get involved in JSM.



### JSM Student Mixer

Sponsored by Two Sigma Monday, July 29, 6:00 p.m. – 7:30 p.m. H-Centennial Ballroom D The Student Mixer provides an opportunity for students to join their contemporaries for

#### **JSM Dance Party**

Tuesday, July 30, 9:30 p.m. – 12:00 a.m. H-Centennial Ballrooms D–E

a fun-filled time

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

# Introductory Overview Lectures

Sunday, July 28, 2:00 p.m. CC-Four Seasons 1 Session 2 - Forensic Statistics

Sunday, July 28, 4:00 p.m. CC-Four Seasons 1 Session 44 - The ABC of Approximate Bayesian Computation

Monday, July 29, 8:30 a.m. CC-Four Seasons 1 Session 97- Likelihood Principle

Monday, July 29, 2:00 p.m. CC-205 **Session 209 -** Causal Inference in Modern Statistics

Tuesday, July 30, 8:30 a.m. CC-Four Seasons 1 **Session 268 -** Modern Risk Analysis

Wednesday, July 31, 8:30 a.m. CC-Four Seasons 1 Session 435 - Pedagogy and Technology for Teaching Statistics





# Late-Breaking Session

Monday, July 29, 2:00 p.m. CC-207

**Session 210** - Statistics at a Crossroads: Who Is for the Challenge?



#### JSM Opening Mixer and Invited Poster Session

Sponsored by Eli Lilly & Company and LinkedIn Sunday, July 28, 8:30 p.m. – 10:30 p.m. CC-Hall C

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

# Hope Endures

# Where Innovation Thrives

Premier Research delivers outcome-focused insight and shares your commitment to developing life-changing therapies.



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# **Spotlight Denver**

Want to explore Denver, but don't want to miss any exciting JSM sessions? Luckily, JSM attendees don't need to venture out to get a taste of the city. Join us for featured events throughout the week in the Spotlight area.



Password: abbvie19 Monday and Wednesday 10:00 a.m. JSM Coffee House Refresh with a cup of

freshly brewed coffee or a selection of Celestial Seasonings teas.

#### Sunday, July 28 1:00 p.m. Spotlight Denver Kick-Off

Swing by and kick-off JSM with a Colorado chili bar. Sample Colorado buffalo and bean chili, Colorado pork green chili, and white bean vegetable chili—all with an assortment of toppings. Enjoy while it lasts!

#### 3:30 p.m. Specialty House-Made Donuts

Sweet tooth? Taste test fresh, warm donut holes made to order by pastry chefs, along with a selection of signature sauces and toppings. Grab one or two (while supplies last) and mingle with other attendees.

#### Monday, July 29 9:00 a.m. Denver Insider Tips

Whether you seek tips for activities and food nearby or the variety of options surrounding dynamic Denver, Visit Denver will be here to guide you.



Shiyang Ma (left) and Qiuyi Wu, both from Rochester, NY, play Jenga in the JSM 2018 Spotlight.

# JSM PHOTO BOOTH

Create memories with your friends using fun props.



POPCORN BREAK

#### 10:00 a.m. JSM Coffee House

Refresh with a cup of freshly brewed coffee or a selection of Celestial Seasonings teas.

#### 11:00 a.m. – 3:00 p.m. JSM Photo Booth

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 tasty bag of popcorn.

#### 3:30 p.m. Denver Microbrew Tasting

#### Sponsored by RTI International

Stop by to taste a variety of local Denver microbrews such as Colorado Native, Boulder Beer Hazed and Infused, and Colorado cider (while supplies last).

#### Tuesday, July 30 10:00 a.m. Get Your JSM Energy Fix

#### Sponsored by Google

Come check out this alternative to a coffee break. Power up with fresh smoothies and energy bars.

#### 1:30 p.m. Popcorn Break

Enjoy an afternoon pick-me-up with a tasty bag of popcorn.

#### 3:30 p.m. Sample Denver Wines

#### Sponsored by Biogen

Denver has wine? Who knew? Don't miss this chance to taste local wines (while supplies last).

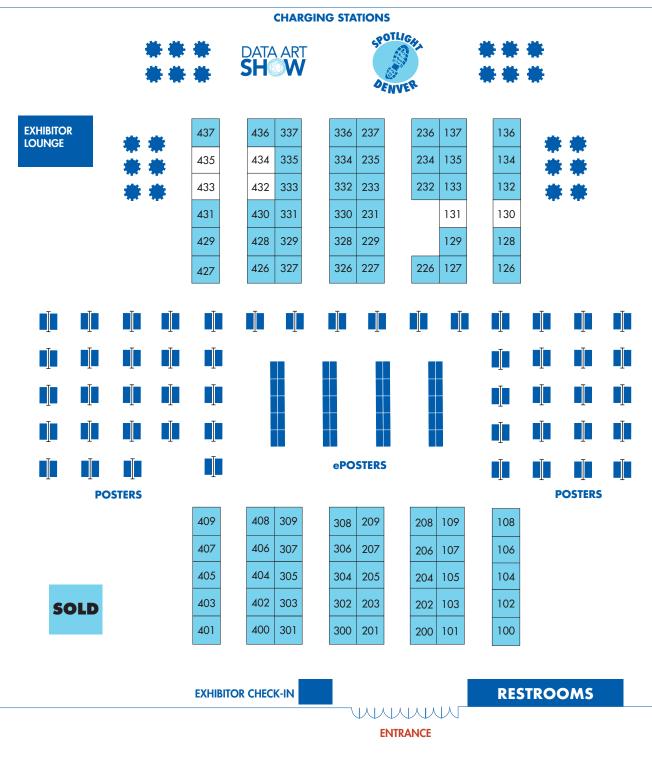
#### Wednesday, July 31 10:00 a.m. JSM Coffee House

Refresh with a cup of freshly brewed coffee or a selection of Celestial Seasonings teas.









# **List of Exhibitors**

| 84.51°406<br>AAAS S&T Policy                 | JMP software fro<br>SAS 201           |
|--|---------------------------------------|
| Fellowships231                               | JSM 2020:<br>Philadelphia, PA         |
| ASA Store - 101,103,105                      | K3-Innovations .                      |
| American Statistical<br>Association 100, 102 | Levstat LLC                           |
| Bayesic<br>Technologies, LLC428              | Minitab, LLC                          |
| Berry Consultants308                         | NCSS                                  |
| Brightech 126                                | National Science<br>Foundation        |
| Bureau of<br>Economic Analysis329            | National Securi<br>Agency             |
| Bureau of                                    | Netflix                               |
| Labor Statistics129                          | Oxford Universi                       |
| Cambridge                                    | Press                                 |
| University Press 331, 333                    | PRA Health                            |
| Cengage                                      | Sciences                              |
| Cytel 227, 326                               | Penfield Search                       |
| DiDi   | Partners                              |
| Facebook232                                  | Penn State Univ<br>Dept. of Statistic |
| US Food and Drug                             | W.C                                   |
| Administration 132,134                       | Premier Researc                       |
| Frontline<br>Systems Inc                     | Project Euclid                        |
| Green Key                                    | Prosoft Clinical.                     |
| Resources                                    | QI Macros                             |
| Hawkes Learning427                           | RStudio, Inc                          |
| IBM229                                       | SAS EDU                               |
| Institute of Mathematical<br>Statistics109   | Practice                              |
|  | 0, 10 1 0 0 0                         |

| JMP software from<br>SAS 201, 203, 205 |
|--|
| JSM 2020:<br>Philadelphia, PA104       |
| K3-Innovations408                      |
| Levstat LLC135                         |
| Minitab, LLC 400, 402                  |
| NCSS                                   |
| National Science<br>Foundation226      |
| National Security<br>Agency 235, 237   |
| Netflix                                |
| Oxford University<br>Press128          |
|  |
| PRA Health<br>Sciences127              |
|  |
| Sciences                               |

| SAS R&D200, 202, 204                               |
|--|
| SIAM106  |
| STAT-HAVVKERS                                      |
| Sandia National<br>Labs233                         |
| Springer Nature404                                 |
| StataCorp LLC<br>301, 303, 305, 307                |
| Statgraphics<br>Technologies, Inc 401              |
| Statistical Society of<br>Canada107                |
| Taylor & Francis<br>Group 328, 330, 332            |
| The Lotus Group LLC409                             |
| US Census Bureau236                                |
| University of Florida<br>Dept. of Biostatistics336 |
| University of Kansas<br>Dept. of Biostatistics306  |
| University of Utah334                              |
| Upstart136   |
| VTeX431  |
| Wiley  |
| XLSTAT   |
| nQuery 407   |
|  |



#### **Food Concessions**

Looking for lunch? Why not head to the EXPO and grab something to eat while you check out the cutting-edge companies showcased on the exhibit floor?

#### **Concession Hours** Sunday

1:00 p.m. – 3:30 p.m.

Monday – Wednesday 11:00 a.m. – 2:00 p.m.

# **JSM Career Service**



Would you like to explore career opportunities with top statistical employers? The JSM Career Service, located in Hall D of the Denver Convention Center, 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.

### Executive Suite Employers (as of May 2019) \_



See all registered companies at www.amstat.org/careerservice.

| \$75  |
|-------|
| \$100 |
| \$150 |
| \$225 |
|       |

Not already registered? Visit the main JSM registration area and ask to add the Career Service to your registration.

Career Service Hours See Page 7



# **Professional Development**

Continuing education is a fundamental component of the professional life of statisticians. The Professional Development (PD) program at JSM offers more than 40 short courses and workshops on topics such as big data, clinical trials, statistical computing, and soft skills. Titles, instructors, descriptions, and schedules are available on the JSM app and JSM online program.

All PD offerings are at the Colorado Convention Center. Most require an additional fee. To add a course or workshop, go to the main registration desk found in Lobby D of the convention center.

# in it to help others learn

**Shivani Rao** Senior Applied Researcher

Inkd.in/data-science
#InltTogether





# **Roundtables**

Looking for something to do for breakfast or lunch? Want a less formal presentation and a way to meet new people? A JSM roundtable might be right for you.

Look through the options in the JSM online program or app and check with JSM registration for availability.

There are also four Speaker with Lunch sessions to choose from:

#### SUNDAY, JULY 28 12:30 – 1:50 p.m. SPAIG Committee Speaker with Lunch (Added Fee)

Considerations in Bayesian Framework Implementation and Impact on Small-Population Clinical Development

Freda Cooner, Amgen

#### MONDAY, JULY 29 12:30 - 1:50 p.m.

Section on Statistics in Sports Speaker with Lunch (Added Fee) Imagining the Future of Sports Analytics Ben Baumer, Smith College

#### TUESDAY, JULY 30 12:30 – 1:50 p.m.

Economic Outlook Luncheon (Added Fee)

Productivity and Intangible Capital in a World of Disruptive Technologies

Carol Corrado, The Conference Board

#### WEDNESDAY, JULY 31 12:30 - 1:50 p.m.

Health Policy Statistics Section Speaker with Lunch (Added Fee)

The Rise and Rise of Patient-Oriented Research: What Implications for Health Services and Policy Research?

Stirling Bryan

# **SESSION SPONSOR KEY**

#### ABBREVIATIONS SPONSORS

#### ABBREVIATIONS SPONSORS

| ACCCP        | ASA Advisory Committee on Climate<br>Change Policy                      | MDD      | Section on Medical Devices and Diagnostics                     |
|--------------|---|----------|--|
| AHSR         | Association of Health Services Research                                 | MEM      | Memorial   |
| ASA          | American Statistical Association  | MHSS     | Mental Health Statistics Section                               |
| ASIG         | Astrostatistics Special Interest Group                                  | MIN      | Committee on Minorities in Statistics                          |
| B&E          | Business and Economic Statistics Section                                | MKTG     | Section on Statistics in Marketing                             |
| BIOM         | Biometrics Section  | NIH      | National Institute on Drug Abuse-NIH                           |
| BIOP         | Biopharmaceutical Section   | NISS     | National Institute of Statistical Sciences                     |
| CGLCS        | ASA LGBT Concerns Committee   | NOETHER  | Noether Award Committee  |
| CAS          | Committee on Applied Statisticians                                      | NPAR     | Section on Nonparametric Statistics                            |
| CASoc        | Casualty Actuarial Society  | PRIV     | Committee on Privacy and Confidentiality                       |
| CAUWOM       | Caucus for Women in Statistics  | Q&P      | Quality and Productivity Section                               |
| CCD          | Committee on Career Development   | RISK     | Section on Risk Analysis                                       |
| CGLCS        | ASA LGBT Concerns Committee   | RSS      | Royal Statistical Society                                      |
|              | Committee on Law and Justice Statistics                                 | SA       | Sirken Award   |
| CLJS         |   | SAIG     | Statistical Auditing Interest Group                            |
| CNSL         | Section on Statistical Consulting                                       | SBSS     | Section on Bayesian Statistical Science                        |
| COC<br>COPSS | Council of Chapters<br>Committee of Presidents of Statistical Societies | SDNS     | Section on Statistics in Defense and National Security         |
| Computing    | Section on Statistical Computing  |          | Committee on Scientific Freedom and                            |
| DEM          | Deming Lectureship Committee  | SFHM     | Human Rights   |
| EDUC         | Section on Statistics and Data Science Education                        | SGG      | Section on Statistics in Genomics and Genetics                 |
|              | Eastern North American Region, International                            | SLDS     | Section on Statistical Learning and Data Science               |
| enar         | Biometric Society   | SOC      | Social Statistics Section                                      |
| ENVR         | Section on Statistics and the Environment                               | SPAAC    | Scientific and Public Affairs Advisory Committee               |
| EPI          | Section on Statistics in Epidemiology                                   | SPAIG    | Stats. Partnerships Among Academe Indust. &                    |
| FND          | Florence N. David Award   |          | Govt. Committee  |
| GOVT         | Government Statistics Section   | SPES     | Section on Physical and Engineering Sciences                   |
| GRPH         | Section on Statistical Graphics   | SPORTS   | Section on Statistics in Sports                                |
| HPSS         | Health Policy Statistics Section  | SPP      | Statistics and Public Policy                                   |
| HSIG         | History of Statistics Interest Group                                    | SRMS     | Survey Research Methods Section                                |
| IASE         | International Association for Statistical Education                     | SSC      | Statistical Society of Canada                                  |
| ICSA         | International Chinese Statistical Association                           | SSPA     | Section for Statistical Programmers and Analysts               |
| IISA         | International Indian Statistical Association                            | SWB      | Statistics Without Borders                                     |
| IMAG         | Section on Statistics in Imaging  | Stat Bus | Business Analytics/Statistics Education Interest<br>Group      |
| IMS          | Institute of Mathematical Statistics                                    | SXP      | Statistics and Pharmacometrics Interest Group                  |
| ISBA         | International Society for Bayesian Analysis                             |          | ASA Task Force on Sexual Harassment                            |
| ISI          | International Statistical Institute                                     | TFSHA    | and Assault  |
| JASA         | JASA, Theory and Methods  | TSHS     | Section on Teaching of Statistics in the                       |
| JASAAPP      | JASA, Applications and Case Studies                                     | 10110    | Health Sciences  |
| JCGS         | Journal of Computational and Graphical Statistics                       | TSIG     | Transportation Statistics Interest Group                       |
| JNPS         | Journal of Nonparametric Statistics                                     | UQCSIG   | Uncertainty Quantification for Complex Systems                 |
| JSSM         | Journal of Survey Statistics and Methodology                            |          | Interest Group   |
| JSMPS        | JSM Partner Societies   | WNAR     | Western North American Region, International Biometric Society |
| KISS         | Korean International Statistical Society                                |          | Diometric Society  |
| LIDS         | Lifetime Data Science Section   | WOMEN    | Committee on Women in Statistics                               |
|              |   |          |  |

 $\label{eq:CC} \textbf{CC} = \text{Colorado Convention Center} \\ \textbf{H} = \text{Hyatt Regency Denver at Colorado Convention Center} \\$ 

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

# SUNDAY, JULY 28

| SPONSOR   | 2:00 PM                           | 4:00 PM                              | 5:05 PM                              | 8:30 PM      |
|-----------|-----------------------------------|--------------------------------------|--------------------------------------|--------------|
| ASA       |                                   |                                      |                                      | 90 CC-Hall C |
| B&E       |                                   | 56 CC-505 / 74 CC-507                |                                      |              |
| BIOM      | 21 CC-109 / 30 CC-107 / 31 CC-108 | 48 CC-104 / 71 CC-106 / 72 CC-108    |                                      |              |
| BIOP      | 17 CC-104 / 24 CC-102 / 32 CC-106 | 55 CC-110 / 73 CC-112                |                                      |              |
| CAUWOM    |                                   | 57 CC-205                            |                                      |              |
| CCD       | 16 CC-205                         |                                      |                                      |              |
| CNSL      | 6 CC-605                          | 61 CC-506                            |                                      |              |
| COC       | 15 CC-503                         |                                      |                                      |              |
| Computing | 19 CC-301                         | 52 CC-501                            |                                      |              |
| EDUC      |                                   | 49 CC-207                            |                                      |              |
| ENAR      | 4 CC-112 / 42 CC-113              | 46 CC-103 / 60 CC-105 / 85 CC-101    |                                      |              |
| ENVR      | 39 CC-302                         | 64 CC-705 / 84 CC-707                |                                      |              |
| EPI       | 11 CC-110 / 27 CC-103             | 68 CC-107 / 82 CC-109                | 88 CC-Hall C                         |              |
| GOVT      | 10 CC-505 / 28 CC-501             | 66 CC-301 / 83 CC-302 / 86 CC-Hall C |                                      |              |
| GRPH      | 25 CC-704                         |                                      |                                      |              |
| HPSS      | 18 CC-203                         | 65 CC-706                            |                                      |              |
| HSIG      |                                   | 69 CC-603                            |                                      |              |
| ICSA      | 33 CC-701                         |                                      |                                      |              |
| IISA      |                                   | 81 CC-701                            |                                      |              |
| IMAG      | 37 CC-702                         |                                      |                                      |              |
| IMS       | 3 CC-710 / 5 CC-607 / 7 CC-709    | 45 CC-709 / 53 CC-607 / 75 CC-710    |                                      |              |
| ISBA      | 20 CC-708                         |                                      |                                      |              |
| JSMPS     | 2 CC-Four Seasons 1               | 44 CC-Four Seasons 1                 |                                      |              |
| MDD       |                                   | 77 CC-111                            | Don't forget to                      |              |
| MEM       |                                   | 54 CC-704                            | leave feed-                          | Л            |
| MHSS      | 12 CC-201                         |                                      | back about the                       | • ( [ ] )    |
| NIH       | 14 CC-705                         |                                      | presentations ye                     |              |
| NPAR      | 35 CC-712                         | 78 CC-712                            | see. Just click th<br>"Thumbs-Up" ic |              |
| SBSS      | 22 CC-707 / 34 CC-706             | 47 CC-708                            | abstract text in                     |              |
| SDNS      |                                   | 70 CC-703                            |                                      |              |
| SGG       | 40 CC-101                         | 58 CC-102                            |                                      |              |
| SLDS      | 8 CC-207 / 38 CC-210/212          | 59 CC-605 / 79 CC-502 / 80 CC-503    |                                      |              |

# SUNDAY, JULY 28

| SPONSOR | 2:00PM                            | 4:00PM        | 5:05PM       | 8:30PM |
|---------|-----------------------------------|---------------|--------------|--------|
| SOC     | 26 CC-603                         | 51 CC-210/212 |              |        |
| SPES    | 36 CC-507                         | 62 CC-702     |              |        |
| SPORTS  | 43 CC-105                         | 87 CC-Hall C  |              |        |
| SPP     |                                   | 50 CC-201     |              |        |
| SRMS    | 13 CC-504 / 29 CC-502 / 41 CC-506 | 63 CC-113     | 89 CC-Hall C |        |
| SSC     |                                   | 67 CC-203     |              |        |
| SSPA    |                                   | 76 CC-504     |              |        |
| SWB     | 23 CC-703                         |               |              |        |
| WNAR    | 9 CC-111                          |               |              |        |

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 $\label{eq:cc} \textbf{CC} = \text{Colorado Convention Center} \\ \textbf{H} = \text{Hyatt Regency Denver at Colorado Convention Center} \\$ 

KEY 30 CC-210 30=Session Number

CC=Building 210=Room Number

# MONDAY, JULY 29

| SPONSOR   | 8:30 AM  | 10:30 AM  | 11:35 AM      | 2:00 PM  | 3:05 PM       | 4:00 PM | 8:00 PM                  |
|-----------|--|---|---------------|--|---------------|---------|--------------------------|
| AHSR      |  | 139 CC-707  |               |  |               |         |                          |
| B&E       | 106 CC-705   | 163 CC-708  |               | 241 CC-113   |               |         |                          |
| BIOM      | 116 CC-104 / 118<br>CC-107 / 128 CC-103<br>/ 129 CC-106        | 160 CC-110 /<br>171 CC-108  | 196 CC-Hall C | 216 CC-704 /<br>239 CC-706                                 |               |         |                          |
| BIOP      | 114 CC-108 / 115<br>CC-201 / 130 CC-112<br>/ 131 CC-101        | 155 CC-107 /<br>164 CC-112 /<br>170 CC-105 /<br>172 CC-109                  |               | 223 CC-703 /<br>240 CC-705 /<br>251 CC-Hall C              |               |         |                          |
| CAS       | 120 CC-712   |   |               |  |               |         |                          |
| CASoc     |  | 165 CC-503  |               |  |               |         |                          |
| CGLCS     |  | 183 CC-Hall C   |               |  |               |         |                          |
| CNSL      | 109 CC-703   |   |               |  |               |         |                          |
| Computing | 122 CC-603   | 177 CC-710  |               | 211 CC-605 /<br>255 CC-Hall C                              |               |         |                          |
| EDUC      | 117 CC-505 / 125<br>CC-502                                     | 152 CC-106 /<br>189 CC-Hall C   | 195 CC-Hall C | 232 CC-507   |               |         |                          |
| ENAR      | 102 CC-110   | 148 CC-201 /<br>173 CC-113  |               | 219 CC-702   |               |         |                          |
| ENVR      | 121 CC-708   | 151 CC-505 /<br>168 CC-501 /<br>190 CC-Hall C                               |               | 249 CC-<br>210/212   | 260 CC-Hall C |         |                          |
| EPI       | 112 CC-109   | 179 CC-111  |               | 234 CC-707 /<br>250 CC-701                                 |               |         |                          |
| GOVT      | 119 CC-506   | 153 CC-101  |               | 242 CC-506   |               |         |                          |
| GRPH      |  | 161 CC-301 /<br>191 CC-Hall C   |               |  |               |         |                          |
| HPSS      | 100 CC-709   | 167 CC-502 /<br>174 CC-504  |               |  | 259 CC-Hall C |         |                          |
| ICSA      |  | 159 CC-302 /<br>186 CC-Hall C   |               |  |               |         |                          |
| IISA      |  |   |               | 233 CC-712   |               |         |                          |
| IMAG      | 135 CC-507   |   |               | 212 CC-505   |               |         |                          |
| IMS       | 103 CC-205 /<br>99 CC-111 / 105<br>CC-207 / 132 CC-<br>210/212 | 145 CC-704 /<br>146 CC-605 /<br>147 CC-Four<br>Seasons 1 / 185<br>CC-Hall C |               | 213 CC-104 /<br>218 CC-201 /<br>220 CC-102 /<br>243 CC-106 |               |         | 262 CC-Four<br>Seasons 1 |
| JASA      |  | 154 CC-207  |               |  |               |         |                          |
| JCGS      |  |   |               | 217 CC-301   |               |         |                          |

# MONDAY, JULY 29

| SPONSOR  | 8:30AM                                  | 10:30AM                                       | 11:35 AM | 2:00 PM   | 3:05 PM | 4:00 PM                          | 8:00 PM |
|----------|---|---|----------|---|---------|----------------------------------|---------|
| JSMPS    | 97 CC-Four Seasons 1                    |   |          | 209 CC-205 /<br>210 CC-207  |         | 261 CC-<br>Four Sea-<br>sons 2-4 |         |
| KISS     |   | 175 CC-706 /<br>184 CC-Hall C                 |          |   |         |                                  |         |
| LIDS     |   |   |          | 244 CC-504  |         |                                  |         |
| MDD      | 111 CC-102                              |   |          | 227 CC-709  |         |                                  |         |
| MEM      |   | 142 CC-205                                    |          |   |         |                                  |         |
| MHSS     |   | 144 CC-506                                    |          |   |         |                                  |         |
| MKTG     |   |   |          | 221 CC-112  |         |                                  |         |
| NISS     |   |   |          | 222 CC-302  |         |                                  |         |
| NPAR     | 123 CC-301 / 133<br>CC-302              | 150 CC-603 /<br>187 CC-Hall C                 |          | 247 CC-108  |         |                                  |         |
| Q&P      |   |   |          | 230 CC-109  |         |                                  |         |
| RISK     | 108 CC-704                              | 156 CC-709                                    |          |   |         |                                  |         |
| RSS      |   |   |          | 226 CC-111  |         |                                  |         |
| SBSS     | 107 CC-203                              | 162 CC-705 /<br>176 CC-701                    |          | 231 CC-105 /<br>238 CC-103 /<br>245 CC-101 /<br>246 CC-107 /<br>254 CC-Hall C |         |                                  |         |
| SDNS     |   | 149 CC-702                                    |          |   |         |                                  |         |
| SGG      | 126 CC-105 / 137<br>CC-113              | 180 CC-<br>210/212 / 182<br>CC-Hall C         |          | 225 CC-710 /<br>237 CC-501  |         |                                  |         |
| SLDS     | 113 CC-702 / 127<br>CC-501 / 136 CC-701 | 141 CC-607 /<br>178 CC-712 /<br>181 CC-Hall C |          | 228 CC-607 /<br>248 CC-502 /<br>256 CC-Hall C                                 |         |                                  |         |
| SOC      | 124 CC-503                              |   |          | 236 CC-503  |         |                                  |         |
| SPAIG    |   | 143 CC-507                                    |          |   |         |                                  |         |
| SPES     | 134 CC-707                              | 188 CC-Hall C                                 |          | 214 CC-203  |         |                                  |         |
| SPORTS   |   |   |          | 235 CC-110 /<br>258 CC-Hall C   |         |                                  |         |
| SRMS     | 98 CC-607 / 138<br>CC-504               | 157 CC-102 /<br>158 CC-104 /<br>169 CC-103    |          | 215 CC-603 /<br>252 CC-Hall C   |         |                                  |         |
| SSC      | 101 CC-706                              | 192 CC-Hall C                                 |          |   |         |                                  |         |
| SSPA     |   | 166 CC-703                                    |          | 257 CC-Hall C   |         |                                  |         |
| Stat Bus | 110 CC-605                              |   |          |   |         |                                  |         |
| SWB      |   | 193 CC-Hall C                                 |          |   |         |                                  |         |
| TFSHA    |   |   |          | 224 CC-Four<br>Seasons 1  |         |                                  |         |
| TSHS     | 104 CC-710                              | 194 CC-Hall C                                 |          |   |         |                                  |         |
| WNAR     |   | 140 CC-203                                    |          | 229 CC-708  |         |                                  |         |

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KEY 30 CC-210 30=Session Number

CC=Building

210=Room Number

# **TUESDAY, JULY 30**

| SPONSOR   | 8:30 AM                                    | 9:25 AM       | 10:30 AM  | 11:35 AM      | 2:00 PM                               | 3:05 PM           | 4:00 PM                          | 8:00 PM |
|-----------|--|---------------|---|---------------|---------------------------------------|-------------------|----------------------------------|---------|
| ACCCP     |  |               | 317 CC-607  |               |                                       |                   |                                  |         |
| ASIG      | 291 CC-702                                 |               |   |               |                                       |                   |                                  |         |
| B&E       | 274 CC-201                                 |               | 332 CC-712 /<br>358 CC-Hall C   |               | 406 CC-507                            |                   |                                  |         |
| BIOM      | 284 CC-101 /<br>296 CC-105 /<br>298 CC-107 |               | 322 CC-106 /<br>341 CC-104  | 361 CC-Hall C | 393 CC-111 /<br>404 CC-113            |                   |                                  |         |
| BIOP      | 273 CC-109 /<br>299 CC-111                 |               | 326 CC-108 /<br>327 CC-110 /<br>339 CC-105 /<br>342 CC-109 /<br>343 CC-111 /<br>356 CC-Hall C |               | 398 CC-102 /<br>405 CC-101            | 426 CC-<br>Hall D |                                  |         |
| CAUWOM    | 279 CC-207                                 |               |   |               |                                       |                   |                                  |         |
| CNSL      |  |               | 324 CC-205  |               | 399 CC-503                            |                   |                                  |         |
| COC       |  |               | 325 CC-102  |               |                                       |                   |                                  |         |
| Computing | 305 CC-301                                 |               | 316 CC-702  |               | 412 CC-708                            |                   |                                  |         |
| DEM       |  |               |   |               |                                       |                   | 428<br>CC-Four<br>Seasons<br>2-4 |         |
| EDUC      | 283 CC-603 /<br>306 CC-104                 |               | 336 CC-503  |               | 388 CC-603                            |                   |                                  |         |
| ENAR      | 276 CC-108                                 |               | 328 CC-112 /<br>338 CC-103  |               | 391 CC-106                            |                   |                                  |         |
| ENVR      | 308 CC-203                                 |               | 331 CC-709  |               | 386 CC-201 /<br>414 CC-203            |                   |                                  |         |
| EPI       | 285 CC-112 /<br>309 CC-110                 |               | 321 CC-107 /<br>359 CC-Hall C   |               | 375 CC-107                            |                   |                                  |         |
| FND       |  |               |   |               | 387 CC-207                            |                   |                                  |         |
| GOVT      | 289 CC-708 /<br>300 CC-710                 | 311 CC-Hall C | 344 CC-506  |               | 389 CC-703 /<br>419 CC-Hall C         |                   |                                  |         |
| GRPH      |  |               | 314 CC-605  |               | 401 CC-704                            |                   |                                  |         |
| HPSS      | 281 CC-205                                 |               | 334 CC-710  |               | 407 CC-<br>210/212 /<br>420 CC-Hall C |                   |                                  |         |
| HSIG      |  |               | 330 CC-603  |               |                                       |                   |                                  |         |
| IASE      | 282 CC-102                                 |               |   |               |                                       |                   |                                  |         |
| ICSA      |  |               |   |               | 374 CC-605                            |                   |                                  |         |
| IISA      |  |               |   |               | 376 CC-103                            |                   |                                  |         |
| IMAG      | 271 CC-707                                 |               | 352 CC-507  |               |                                       |                   |                                  |         |

# **TUESDAY, JULY 30**

| SPONSOR  | 8:30 AM                                    | 9:25 AM       | 10:30 AM   | 11:35 AM      | 2:00 PM  | 3:05 PM           | 4:00 PM | 8:00 PM                    |
|----------|--|---------------|--|---------------|--|-------------------|---------|----------------------------|
| IMS      | 269 CC-712 /<br>272 CC-607 /<br>288 CC-705 |               | 312 CC-203 /<br>318 CC-207<br>/ 345 CC-<br>210/212 |               | 378 CC-Four<br>Seasons 1 /<br>381 CC-706 /<br>392 CC-705 |                   |         |                            |
| ISBA     |  |               |  |               | 396 CC-105   |                   |         |                            |
| JNPS     | 270 CC-704                                 |               |  |               |  |                   |         |                            |
| JSMPS    | 268 CC-Four<br>Seasons 1                   |               | 312 CC-Four<br>Seasons 1                           |               |  |                   |         | 429 CC-Four<br>Seasons 2-4 |
| JSSM     |  |               |  |               | 379 CC-501   |                   |         |                            |
| KISS     |  |               |  |               | 394 CC-502   |                   |         |                            |
| LIDS     | 277 CC-506 /<br>293 CC-507                 |               |  |               | 408 CC-709   |                   |         |                            |
| MDD      |  |               | 359 CC-Hall C                                      |               | 410 CC-104 /<br>418 CC-Hall C                            |                   |         |                            |
| MHSS     | 301 CC-<br>210/212                         |               | 346 CC-701   |               | 380 CC-301   |                   |         |                            |
| MKTG     |  |               |  |               | 384 CC-504   |                   |         |                            |
| NPAR     | 303 CC-706                                 |               | 313 CC-201   |               | 411 CC-302   |                   |         |                            |
| Q&P      |  |               | 349 CC-705   |               | 390 CC-506 /<br>421 CC-Hall C                            |                   |         |                            |
| RISK     | 304 CC-302                                 |               | 360 CC-Hall C                                      |               | 382 CC-707   |                   |         |                            |
| RSS      | 290 CC-703                                 |               |  |               |  |                   |         |                            |
| SBSS     | 286 CC-605 /<br>297 CC-501 /<br>302 CC-701 |               | 315 CC-301 /<br>340 CC-501 /<br>347 CC-302         | 362 CC-Hall C | 397 CC-109 /<br>409 CC-110                               | 427 CC-<br>Hall C |         |                            |
| SDNS     |  |               | 320 CC-703   |               |  |                   |         |                            |
| SGG      | 287 CC-113                                 | 310 CC-Hall C | 351 CC-101   |               | 415 CC-112   |                   |         |                            |
| SLDS     | 278 CC-504 /<br>294 CC-502 /<br>307 CC-505 |               | 329 CC-704 /<br>350 CC-706 /<br>353 CC-Hall C      |               | 385 CC-607 /<br>413 CC-712                               |                   |         |                            |
| SOC      | 275 CC-106                                 |               | 335 CC-504 /<br>337 CC-502                         |               | 417 CC-Hall C<br>/ 422 CC-Hall C                         |                   |         |                            |
| SPAAC    |  |               |  |               | 403 CC-Hall C  |                   |         |                            |
| SPES     |  |               | 348 CC-707   |               | 383 CC-505   |                   |         |                            |
| SPORTS   |  |               | 323 CC-708   |               |  |                   |         |                            |
| SRMS     | 292 CC-709 /<br>295 CC-103                 |               | 333 CC-505 /<br>354 CC-Hall C                      |               | 395 CC-702 /<br>416 CC-701 /<br>423 CC-Hall C            |                   |         |                            |
| SSC      |  |               | 319 CC-113   |               |  |                   |         |                            |
| SSPA     | 280 CC-503                                 |               |  |               |  |                   |         |                            |
| Stat Bus |  |               | 357 CC-Hall C                                      |               |  |                   |         |                            |
| TSHS     |  |               |  |               | 402 CC-710   |                   |         |                            |
| TSIG     |  |               |  |               | 424 CC-Hall C  |                   |         |                            |
| UQCSIG   |  |               |  |               | 425 CC-Hall C  |                   |         |                            |
| WNAR     |  |               |  |               | 377 CC-108   |                   |         |                            |
| WOMEN    |  |               |  |               | 400 CC-205   |                   |         |                            |

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# **Technical Sessions**

#### KEY 30 CC-210 30=Session Number CC=Building

210=Room Number

# WEDNESDAY, JULY 31

| SPONSOR   | 8:30 AM  | 10:30 AM   | 11:35 AM      | 2:00 PM  | 4:00 PM                    |
|-----------|--|--|---------------|--|----------------------------|
| B&E       | 460 CC-104 / 463 CC-103                              | 500 CC-103 / 508 CC-101 /<br>520 CC-Hall C                         |               | 546 CC-501   |                            |
| BIOM      | 446 CC-101 / 466 CC-109                              | 494 CC-113 / 506 CC-112 /<br>522 CC-Hall C                         |               | 564 CC-112 / 570 CC-<br>110                            |                            |
| BIOP      | 456 CC-207 / 459 CC-111 /<br>467 CC-113 / 468 CC-112 | 479 CC-207 / 507 CC-<br>210/212                                    |               | 557 CC-108 / 558 CC-<br>207 / 571 CC-210/212           |                            |
| CASoc     |  |  |               | 566 CC-101   |                            |
| CNSL      |  | 504 CC-705 / 526 CC-Hall C   |               |  |                            |
| Computing | 444 CC-505 / 465 CC-501                              | 513 CC-706   | 531 CC-Hall C | 574 CC-302   |                            |
| COPSS     |  |  |               |  | 583 CC-Four<br>Seasons 2-4 |
| EDUC      | 445 CC-707   | 514 CC-302   |               |  |                            |
| ENAR      | 449 CC-205   | 487 CC-111 / 523 CC-Hall C   |               | 551 CC-109 / 560 CC-111                                |                            |
| ENVR      | 450 CC-203   | 497 CC-507   |               | 577 CC-104   |                            |
| EPI       | 438 CC-106 / 464 CC-105<br>/ 472 CC-107              | 517 CC-109 / 518 CC-110 /<br>521 CC-Hall C                         |               | 562 CC-106   |                            |
| GOVT      | 458 CC-708 / 469 CC-709                              | 492 CC-205   |               | 565 CC-705 / 581 CC-<br>701                            |                            |
| GRPH      |  | 515 CC-105   |               | 550 CC-605   |                            |
| HPSS      | 447 CC-201   | 493 CC-506   |               |  |                            |
| ICSA      |  | 510 CC-501   |               | 542 CC-507   |                            |
| IISA      |  |  |               | 544 CC-506   |                            |
| IMAG      | 452 CC-710   | 516 CC-107 / 528 CC-Hall C   |               | 576 CC-706   |                            |
| IMS       | 440 CC-607 / 441 CC-504<br>/ 455 CC-502              | 477 CC-710 / 481 CC-708 /<br>484 CC-Four Seasons 1 / 509<br>CC-712 |               | 545 CC-607 / 547 CC-<br>Four Seasons 1 / 556<br>CC-503 |                            |
| JASAAPP   |  |  |               | 554 CC-201   |                            |
| JSMPS     | 435 CC-Four Seasons 1                                |  |               |  |                            |
| KISS      | 443 CC-301   |  |               |  |                            |

# WEDNESDAY, JULY 31

| SPONSOR | 8:30 AM                 | 10:30 AM                   | 11:35 AM | 2:00 PM                                  | 4:00 PM |
|---------|-------------------------|----------------------------|----------|--|---------|
| LIDS    |                         | 496 CC-603 / 524 CC-Hall C |          |  |         |
| MDD     | 470 CC-108              |                            |          |  |         |
| MEM     | 439 CC-703 / 451 CC-705 |                            |          | 541 CC-504 / 554 CC-<br>203              |         |
| MHSS    |                         | 498 CC-505 / 519 CC-Hall C |          | 567 CC-103                               |         |
| MIN     |                         | 490 CC-201                 |          |  |         |
| MKTG    |                         | 530 CC-Hall C              |          | 568 CC-703                               |         |
| NOETHER |                         | 488 CC-607                 |          |  |         |
| NPAR    | 457 CC-503              | 489 CC-709                 |          | 582 CC-712                               |         |
| PRIV    |                         | 505 CC-503                 |          |  |         |
| Q&P     |                         | 485 CC-102                 |          |  |         |
| RISK    | 461 CC-704              | 512 CC-704                 |          |  |         |
| RSS     |                         | 495 CC-502                 |          |  |         |
| SA      |                         | 489 CC-605                 |          |  |         |
| SAIG    |                         |                            |          | 555 CC-704                               |         |
| SBSS    | 437 CC-603              | 478 CC-707                 |          | 563 CC-709 / 572 CC-<br>708 / 573 CC-710 |         |
| SDNS    |                         | 525 CC-Hall C              |          | 561 CC-105                               |         |
| SFHM    |                         |                            |          | 556 CC-205                               |         |
| SGG     | 453 CC-102              | 480 CC-203 / 527 CC-Hall C |          | 575 CC-113                               |         |
| SLDS    | 454 CC-506 / 471 CC-507 | 482 CC-702 / 517 CC-701    |          | 559 CC-301                               |         |
| SOC     | 475 CC-706              | 486 CC-301                 |          | 580 CC-707                               |         |
| SPES    | 448 CC-702              | 513 CC-104                 |          |  |         |
| SPORTS  | 473 CC-302              |                            |          | 578 CC-502                               |         |
| SRMS    | 442 CC-605 / 474 CC-701 | 502 CC-108 / 503 CC-106    |          | 548 CC-603 / 579 CC-702                  |         |
| SSC     |                         |                            |          | 543 CC-505                               |         |
| SSPA    |                         | 491 CC-703                 |          |  |         |
| TSHS    |                         | 483 CC-504                 |          | 569 CC-102                               |         |
| TSIG    | 476 CC-210/212          |                            |          |  |         |
| UQCSIG  | 462 CC-712              |                            |          |  |         |
| WNAR    | 436 CC-110              | 529 CC-Hall C              |          | 549 CC-107                               |         |

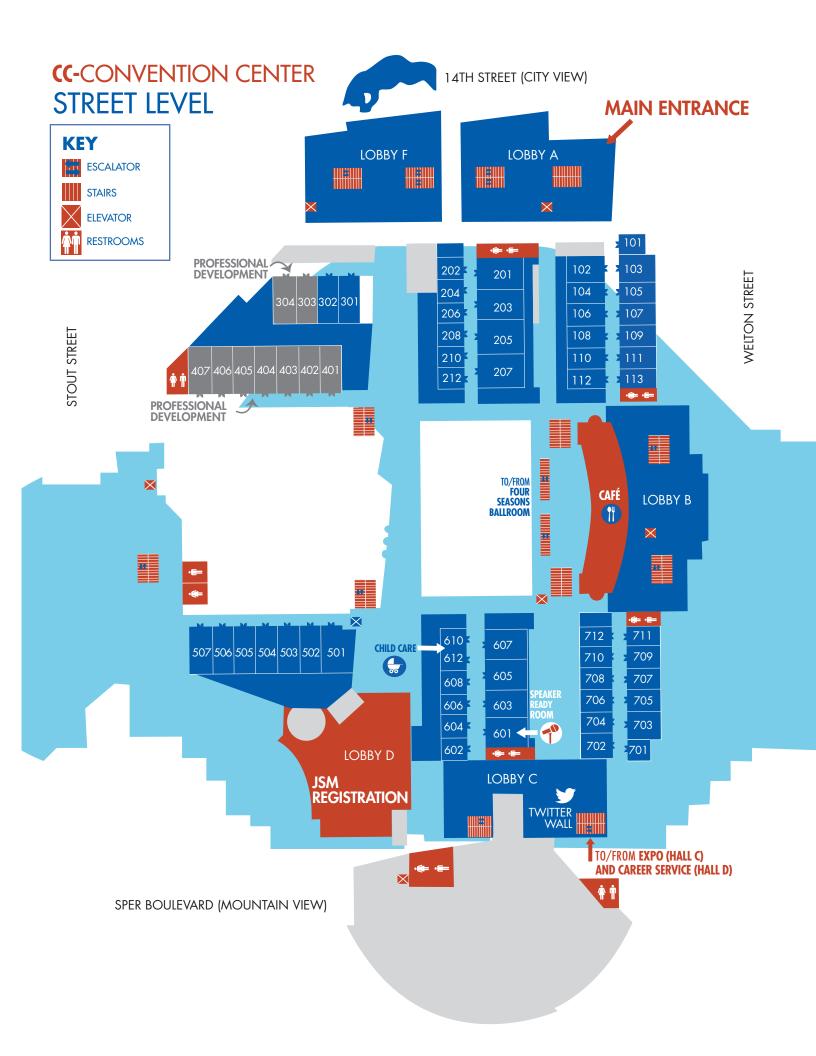
 $\label{eq:CC} \textbf{CC} = \text{Colorado Convention Center} \\ \textbf{H} = \text{Hyatt Regency Denver at Colorado Convention Center}$ 

#### KEY 30 CC-210 30=Session Number CC=Building

210=Room Number

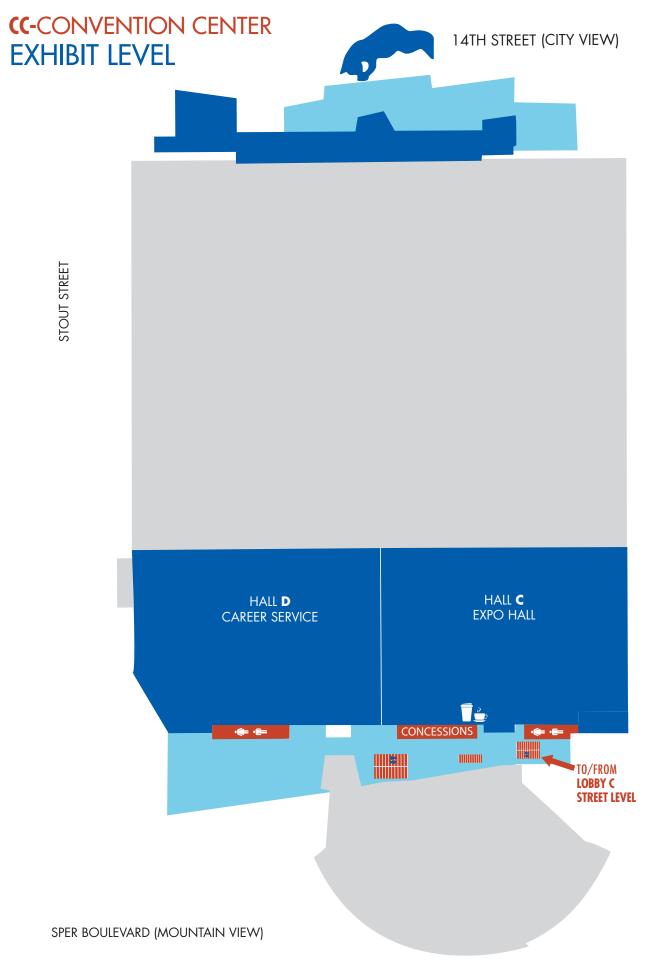
# THURSDAY, AUGUST 1

| SPONSOR   | 8:30 AM   | 10:30 AM  |  |  |
|-----------|---|---|--|--|
| B&E       | 604 CC-112  | 633 CC-102  |  |  |
| BIOM      | 592 CC-702 / 601 CC-705 / 609 CC-703 / 617 CC-701 | 648 CC-702 / 652 CC-706                           |  |  |
| BIOP      | 605 CC-603 / 608 CC-704 / 610 CC-706              | 628 CC-710 / 646 CC-708 / 653 CC-712              |  |  |
| CIJS      |   | 630 CC-111  |  |  |
| Computing | 585 CC-102 / 616 CC-104                           | 650 CC-501  |  |  |
| COPSS     | 597 CC-503  | 638 CC-504  |  |  |
| EDUC      |   | 651 CC-704  |  |  |
| ENAR      | 596 CC-605 / 612 CC-710                           | 635 CC-707  |  |  |
| ENVR      | 586 CC-106 / 620 CC-108                           | 661 CC-701  |  |  |
| EPI       | 621 CC-707  | 629 CC-207 / 662 CC-210/212                       |  |  |
| GOVT      | 589 CC-207  | 647 CC-507 / 654 CC-505 / 655 CC-506              |  |  |
| GRPH      | 590 CC-205  |   |  |  |
| HPSS      | 595 CC-107  | 656 CC-705  |  |  |
| ICSA      | 598 CC-113  |   |  |  |
| IISA      |   | 658 CC-112  |  |  |
| IMAG      | 603 CC-210/212                                    | 627 CC-605  |  |  |
| IMS       | 584 CC-505 / 587 CC-506 / 599 CC-507              | 625 CC-103 / 628 CC-104 / 638 CC-105 / 657 CC-101 |  |  |
| ISI       |   | 640 CC-205  |  |  |
| MDD       |   | 644 CC-607  |  |  |
| NPAR      | 588 CC-203 / 614 CC-501                           | 641 CC-109 / 665 CC-110                           |  |  |
| Q&P       | 615 CC-109  | 643 CC-201  |  |  |
| SAIG      |   | 664 CC-113  |  |  |
| SBSS      | 591 CC-502 / 613 CC-504                           | 645 CC-107 / 649 CC-108                           |  |  |
| SDNS      | 619 CC-105  |   |  |  |
| SGG       | 593 CC-712 / 622 CC-709                           | 663 CC-709  |  |  |
| SLDS      | 602 CC-201 / 611 CC-103 / 618 CC-101              | 634 CC-502 / 659 CC-301 / 660 CC-302              |  |  |
| SOC       |   | 642 CC-106  |  |  |
| SPES      | 600 CC-111  |   |  |  |
| SRMS      | 606 CC-301 / 623 CC-302                           | 631 CC-603  |  |  |
| SSC       |   | 632 CC-203  |  |  |
| SSPA      |   | 639 CC-503  |  |  |
| SXP       | 607 CC-607  |   |  |  |
| TSHS      | 624 CC-110  |   |  |  |
| WNAR      | 594 CC-708  |   |  |  |





DENVER, COLORADO | JSM 2019 31

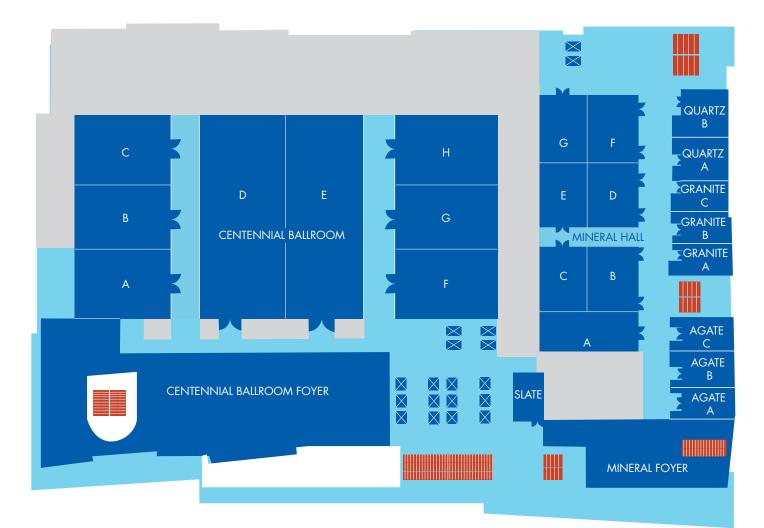


WELTON STREET

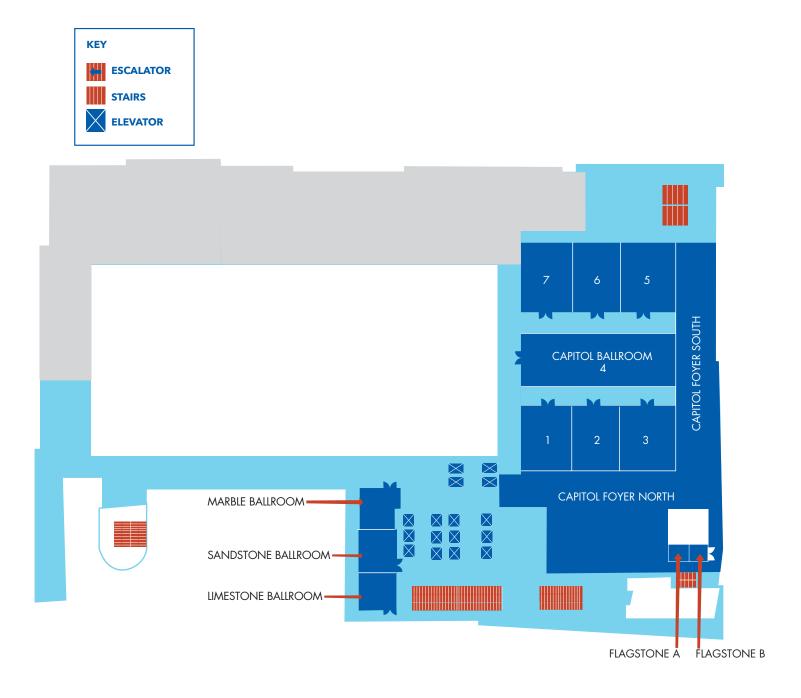
## H-HYATT REGENCY DENVER THIRD FLOOR



BUSINESS AND COMMITTEE MEETINGS



## H-HYATT REGENCY DENVER FOURTH FLOOR



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#### CIMS Global Introduces Dynamic Data Monitoring (DDM) and Dynamic Trial Design (DTD)

A breakthrough approach for clinical trial design and management

#### DDM-- An Al-engineered Statistical Package for Monitoring On-Going Clinical Trial

The CIMS Dynamic Data Monitoring engine utilizes machine learning and artificial intelligence (AI) technology in an integrated, closed system with EDC and IWRS. As new data is cumulated, the system will automatically compute the Score and Wald statistics for chosen endpoints, conditional power. A build-in dynamic adaptive procedure will perform intelligent trial optimization strategies such as sample size re-estimation, dose selection, population selection and prediction of the trend of trials.

#### DTD – A Statistical Package for Innovative Trial Design

The CIMS Dynamic Trial Design platform is a cloud-based statistical software for innovative trial design. On the platform, you can conduct the classical Group Sequential Designs. You can also perform different innovative designs and use simulations to compare their performance according to your objectives. Due to heavy numerical computation in simulation, the platform is hosted in cloud-based GPU servers.

- Adaptive sequential designs (ASD)
- Dynamic adaptive designs (DAD)
- Phase 2/3 seamless designs
- ASD for multiple comparisons
- Simulation for comparing different designs

Our Innovative Trial Design Group (ITDG) is composed of experts in trial design and strategy.

Contact us: (844) 491-7480, ext. 111 | support@cims-global.com | www.cims-global.com

What are your big goals for JSM 2019? Write them down here and think about how the sessions and events you attend can help you achieve them.

**Connect with these people:** Say hello to speakers and fellow attendees, then write down who you plan to follow up with and why so you can take action later!

#### Tools and insights I don't want to forget:

Take good notes about the best ideas you hear at JSM. You'll be glad you did when you get home and are reflecting about how to put your JSM experience to work.

# DIN US for an ASA meeting!





For health policy statisticians and researchers. ww2.amstat.org/ichps



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For applied statisticians, data analysts, researchers, and scientists seeking best practices. ww2.amstat.org/csp



#### **SYMPOSIUM ON DATA SCIENCE & STATISTICS**

For data scientists, computer scientists, and statisticians analyzing and visualizing complex data. ww2.amstat.org/sdss



#### ASA BIOPHARMACEUTICAL SECTION REGULATORY-INDUSTRY STATISTICS WORKSHOP

For all statisticians interested in statistical practices for all areas regulated by the FDA. ww2.amstat.org/biopharmworkshop



#### WOMEN IN STATISTICS AND DATA SCIENCE CONFERENCE

For women in statistics and data science at all career levels. ww2.amstat.org/wsds

#### www.amstat.org/meetings



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Takeda has diverse and rich statistical and quantitative expertise. Our Statistical & Quantitative Sciences Organization is best in class and strives to bring **BETTER HEALTH AND A BRIGHTER FUTURE** 

to patients through



INNOVATIVE TRIAL AND PROGRAM DESIGN



ADVANCED STATISTICAL AND QUANTITATIVE SCIENCES METHODOLOGY



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