Seventy Fourth Annual Deming Conference on Applied Statistics
Tropicana Casino and Resort, Havana Tower, Atlantic City, NJ
Sponsored by the Biopharmaceutical Section of the ASA and the Metropolitan Section of the ASQ

Monday December 3, 2018 Registration: 6:30 ⇒ 8 AM Hot Breakfast 7 ⇒ 8 AM

8 ⇒ 9 AM: Deepening the Reform of the Review and Approval System and Encouraging the Innovation of Drugs in China
Dr. Ruyi He, MD, Chief Scientist, Center for Drug Evaluation, Chinese Food and Drug Administration

Session A	**Session B**
Recent Development on Bayesian Clinical Trial Designs Using Historical Data Professor: Ming-Hui Chen, University of Connecticut Moderator: Naitee Ting	Subgroup Identification: A Comparative Review Professor Wei-Yin Loh, University of Wisconsin - Madison Moderator: Ivan S. F. Chan

Lunch (On Your Own) 12 ⇒ 1:30 PM

Session C ♣	**Session D ♣ 🕮**
Statistical Challenges in the Analysis of Biomarker Data Professor Stephen W. Looney, Augusta University Moderator: Kalyan Ghosh	Bayesian Nonlinear Models for Bactericidal Activity of Tuberculosis Drugs Dr. Divan A. Burger, University of Pretoria Prof. Ding-Geng Chen, University of North Carolina – Chapel Hill (UNC) Moderator: Walter R. Young

7:00 PM Speaker's and Awards Dinner (Optional Added Fee Event**)**

Tuesday December 4. 2018 Registration: 6:30 ⇒ 8 AM Hot Breakfast 7 ⇒ 8 AM

8 ⇒ 9 AM: Recent Advances in Regulatory Statistics in Cardio-Renal and CNS Clinical Trials
Dr. Hsien-Ming James Hung, FDA

Session E ♣ 🕮	**Session F ♣**
Experiences in Designing and Analyzing Vaccine Outcome Studies Dr. Scott Paterson, Sanofi-Pasteur Moderator: Fred Balch	Advanced Visual Analytics of Safety Data from Different Data Sources – Approaches and Available Tools Drs. Melvin Munsaka (AbbVie), Kefei Zhou (Jazz Pharmaceuticals) Krishan P. Singh (GSK) Moderator: Ivan S. F. Chan

Lunch (On Your Own) 12:15 ⇒ 1:45 PM

Session G 🕮	**Session H 🕮**
Text Mining with R: A Tidy Approach Dr. Julia Silge, Stack Overflow Moderator: Fred Balch	Statistical Topics in Health Economics and Outcomes Research: Patient-Reported Outcomes, Meta-Analysis, and Health Economics Dr. Joseph C. Cappelleri, Pfizer Professor Thomas Mathew, University of Maryland, Baltimore County Moderator: Wenjin Wang

Wednesday December 5, 2018 Registration: 6:30 ⇒ 8 AM Hot Breakfast 7 ⇒ 8 AM

Session I ♣	**Session J ♣**
Risk Factor Identification & Comparative Effectiveness Research Using Electronic Health Records: Challenges, Analytical Strategies & Recent Developments Drs. Rebecca Hubbard and Yong Chen, University of Pennsylvania Bin Huang, Cincinnati Children's Hospital Medical Center Moderator: Kalyan Ghosh	Designing and Integrating the RCT/RWE in Safety Decision Making Drs. Rima Izem, FDA Richard C. Zink, TARGET PharmaSolutions Inc. William Wang, Merck Moderator: Ivan S. F. Chan

Lunch (On Your Own) 12:15 ⇒ 1:15 PM

Session K	**Session L**
Overview Of Non-Inferiority Trial Design, Analysis and Reporting Drs. Susan Wang and Gang Cheng, Boehringer Inglelheim China Moderator: Naitee Ting	FDA Advisory Committee Meeting and Non-inferiority Case Study Drs. Bob Powell (UNC), Steve Wilson (Consultant), & William Wang (Merck) Moderator: Ivan S. F. Chan

♣ Sessions will have their breaks extended by 15 minutes for Poster Presentations

Thursday December 6, 2018 Short Course Registration and Hot Breakfast: 6:30 ⇒ 8 AM

8:00⇒9:30 Lecture / **9:30⇒9:50** *Break* / **9:50⇒11:20 Lecture** / **11:20⇒12:40** *Lunch on Your Own* / **12:40⇒2:10 Lecture** / **2:10⇒2:30** *Break* / **2:30⇒4:00 Lecture**) / **4:00⇒4:20** *Break* / **4:20⇒5:50 Lecture**

Fundamental Concepts for New Clinical Trialists 🕮 Dr. Naitee Ting, Boehringer Inglelheim Professor Scott R. Evans, Harvard School of Public Health Moderator: Xiaoming Li **Text**: Fundamental Concepts for New Clinical Trialists	Design, Data Monitoring & Analysis of Clinical Trials With Multiple Outcomes 🕮 **Dr. Toshimitsu Hamasaki, Osaka University and National Cerebral and Cardiovascular Center, Japan** Dr. Hsien-Ming James Hung, FDA Moderator: Alfred H. Balch **Texts**: Group-Sequential Clinical Trials with Multiple Co-Objectives Sample Size Determination in Clinical Trials with Multiple Endpoints

Friday December 7, 2018

Hot Breakfast 7⇒8 / 8:00⇒9:30 Lecture / 9:30⇒9:50: *Break* / 9:50⇒11:20: Lecture / 11:20⇒11:40 / *Break* / 11:40⇒1:10: Lecture

All tutorial and short course titles, presenters and moderators from 1989 onwards are on www.demingconference.com
🕮 Session is based on a recently published text that is available either for a discounted price or is included in the price of the two short courses
Full hot breakfasts are included on each of the five days