


**Seventy Fourth Annual Deming Conference on Applied Statistics  
Tropicana Casino and Resort, Havana Tower, Atlantic City, NJ**

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

<p align="center"><b>Session A</b></p> <p>Recent Development on Bayesian Clinical Trial Designs Using Historical Data Professor: Ming-Hui Chen, University of Connecticut Moderator: Naitee Ting</p>	<p align="center"><b>Session B</b></p> <p>Subgroup Identification: A Comparative Review Professor Wei-Yin Loh, University of Wisconsin - Madison Moderator: Ivan S. F. Chan</p>
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Lunch (On Your Own) 12 ⇒ 1:30 PM

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

<p align="center"><b>Session E ♣</b> </p> <p>Experiences in Designing and Analyzing Vaccine Outcome Studies Dr. Scott Paterson, Sanofi-Pasteur Moderator: Fred Balch</p>	<p align="center"><b>Session F ♣</b></p> <p>Advanced Visual Analytics of Safety Data from Different Data Sources – Approaches and Available Tools Drs. Melvin Munsaka (AbbVie), Kefei Zhou (Theravance Biopharma) Krishan P. Singh (GSK) Moderator: Ivan S. F. Chan</p>
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Lunch (On Your Own) 12:15 ⇒ 1:45 PM

<p align="center"><b>Session G</b> </p> <p>Text Mining with R: A Tidy Approach Dr. Julia Silge, Stack Overflow Moderator: Fred Balch</p>	<p align="center"><b>Session H</b> </p> <p>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</p>
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Wednesday December 5, 2018 Registration: 6:30 ⇒ 8 AM Hot Breakfast 7 ⇒ 8 AM

<p align="center"><b>Session I ♣</b></p> <p>Risk Factor Identification &amp; Comparative Effectiveness Research Using Electronic Health Records: Challenges, Analytical Strategies &amp; Recent Developments Drs. Rebecca Hubbard and Yong Chen, University of Pennsylvania Bin Huang, Cincinnati Children's Hospital Medical Center Moderator: Kalyan Ghosh</p>	<p align="center"><b>Session J ♣</b></p> <p>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</p>
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
Lunch (On Your Own) 12:15 ⇒ 1:15 PM

<p align="center"><b>Session K</b></p> <p>Overview Of Non-Inferiority Trial Design, Analysis and Reporting Drs. Susan Wang and Gang Cheng, Boehringer Ingelheim China Moderator: Naitee Ting</p>	<p align="center"><b>Session L</b></p> <p>FDA Advisory Committee Meeting and Non-inferiority Case Study Drs. Bob Powell (UNC), Steve Wilson (Consultant), &amp; William Wang (Merck) Moderator: Ivan S. F. Chan</p>
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♣ 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**

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