Joint Research Conference Schedule: Thursday, June 14

7:30-8:00 am	2nd Floor Hallway **Registration**		
8:00-9:00 am	O'Keefe	**Plenary Session:** Chair: Brian Weaver, Los Alamos National Laboratory *Modeling Stress-Strain Fields in Polycrystalline Materials Statistical Art and Science* Scott Vander Wiel, Los Alamos National Laboratory	
9:00-9:10 am		10 minute break	
9:10-10:40 am	Lamy **Invited Session:** **Celebrating 60 Years of Technometrics** Organizer/Chair: Dan Apley Northwestern University *Replication or Exploration? Sequential Design for Stochastic Simulation Experiments* Mickael Binois, Argonne National Laboratory *Permutation and Grouping Methods for Sharpening Gaussian Process Approximations* Joseph Guiness, North Carolina State University *Gaussian Process Modeling of a Functional Output with Information from Boundary and Initial Conditions and Analytical Approximations* Matthias Tan, City University of Hong Kong	Palace A **Invited Session:** **The Latest in Statistical Process Control and Signal Detection** Organizer/Chair: Anne Hansen-Musakwa, Tuft & Needle *Repeated SPRT Charts for Monitoring INAR(1) Processes* Daniel Jeske, U. of California, Riverside *Anomaly Detection in Multivariate and Streaming Data* Karl Pazdernik, Pacific Northwest National Laboratory *Process Control Using Machine Learning* Xin Guan, Intel Corporation	Palace B **Contributed Session:** **Mixing It Up!** Chair: Elizabeth Kelly, Los Alamos National Laboratory *Development of improved statistical methodology for eyewitness identification* Alice Liu, U. of Virginia *Pointwise Tolerance Intervals for Autoregressive Models, with an Application to Hospital Waiting Lists* Kedai Cheng, U. of Kentucky *A Physics-specific Change Point Detection Method using Torque Signals in Pipe Tightening Processes* Juan Du, Peking University *Purely Sequential and Two-Stage Bounded-Length Confidence Interval Estimation Problems in Fisher's "Nile" Example* Yan Zhuang, U. of Connecticut
10:40-11:10 am		30 minute break	

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11:10-11:55 am	Lamy **Contributed Session:** **All About CUSUMs** Chair: Robert Foster, Los Alamos National Laboratory *CUSUM and GLR charts for monitoring the scale parameter of right-censored Weibull lifetimes* Jaeheon Lee, Chung-Ang University *Performance of Risk-Adjusted CUSUM Chart Under an Incorrectly Specified Binary Logistic Regression Model* Philip Wittenberg, Helmut Schmidt University	Palace A **Contributed Session:** **More DOE Fun** Chair: Isaac Michaud, North Carolina State University *Multivariate Design of Experiments for Engineering Dimensional Analysis* Chris Nachtsheim, U. of Minnesota *Designing Experiments for Dynamic Responses* Rong Pan, Arizona State University	Palace B **Contributed Session:** **Exploring the Options** Chair: Jim Wendelberger, Los Alamos National Laboratory *Narrow Big Data in Streams and Kolmogorov Complexity* Michael Cerny, U. of Economics, Prague *Design of Experiments for Bimatrix Games with Military and Baseball Applications* Olivia Hernandez, The Ohio State University
12:00-1:30 pm	O'Keefe	**Lunch** **Special Invited Lunch Speaker** Chair: Max Morris, Iowa State *The Critical Role of Statistics in Development and Validation of Forensic Methods* Karen Kafadar, U. of Virginia	
1:30-3:00 pm		Palace A **Invited Session:** **Statistical Machine Learning** Organizers: C. Devon Lin, Queen's U. and Matt Pratola, The Ohio State University Chair: Xinwei Deng, Virginia Tech *Variable Selection for Mean and Volatility* Rob McCulloch, Arizona State *Adaptively Pruned Random Forests for Modeling Means and Variances Simultaneously* Thomas Logan, Simon Fraser U. *Survival Prediction and Model Assessment via BART Model Averaging* Nick Henderson, Johns Hopkins	Palace B **Invited Session:** **Computer Experiments** Organizer: Shan Ba, Procter & Gamble Chair: Brian Williams, Los Alamos National Laboratory *Practical Heteroskedastic Gaussian Process Modeling for Large Simulation Experiments* Robert Gramacy, Virginia Tech *A Latent Variable Approach for Handling Qualitative Factors in Gaussian Process Modeling of Computer Experiments*, Daniel Apley, Northwestern U. *Constructing Space Filling Designs with Categorical Factor and Factor Constraints* Bradley Jones, JMP