

Joint Research Conference Schedule: Tuesday, June 12

7:00-8:00 am	2 nd Floor Hallway Registration		
8:00-9:00 am	<p>O'Keefe</p> <p>Welcome: Joanne Wendelberger, JRC2018 Chair</p> <p>Plenary Session: Chair: Leslie Moore, Los Alamos</p> <p>Conference Honoree Address <i>A Brief, Incomplete, and Biased History of Computer Experiments</i> Max Morris, Iowa State University</p>		
9:00-9:10 am	10 Minute Break		
9:10-10:40 am	<p>Lamy</p> <p>Invited Session: Modern Design of Experiments Organizer: C. Devon Lin, Queen's University Chair: Brian Weaver, Los Alamos National Laboratory</p> <p><i>Analysis-of-Marginal-Tail-Means – a New Method for Robust Parameter Optimization</i> Jeff Wu, Georgia Tech</p> <p><i>Restricted Screening Designs</i> Ryan Lekivetz, JMP Division of SAS</p> <p><i>Value of Feedback and Lookahead in Optimal Sequential Bayesian Experimental Design</i> Ryan Xun Huan, Sandia National Laboratory</p>	<p>Palace A</p> <p>Invited Session: Lessons Learned from Data Challenges and Challenging Data Organizer: Anne Hansen-Musakwa, Tuft & Needle Chair: Brian Weaver, Los Alamos National Laboratory</p> <p><i>How Data-based Approaches Work Regardless of Corporate Culture</i> Anne Hansen-Musakwa, Tuft and Needle</p> <p><i>The Value of the CDC's Influenza Forecasting Challenge: One Participant's Nuanced Perspective</i> David Osthus, Los Alamos National Laboratory</p> <p><i>Data Competition Hosting: Getting More Than Just a Winner Through Strategic Design and Analysis</i> Christine Anderson-Cook, Los Alamos National Laboratory</p>	<p>Palace B</p> <p>Invited Session: Uncertainty Quantification Organizer: Matt Pratola, The Ohio State University Chair: Derek Bingham Simon Fraser University</p> <p><i>Neural Networks for Flexible and Fast Emulation of Computer Experiments</i> Jaren Huling, The Ohio State University</p> <p><i>Bayesian Gaussian Process Models for Dimension Reduction Uncertainties</i> Peter Marcy, Los Alamos National Laboratory</p> <p><i>Model Calibration and Validation with Count Data and Generalized Gaussian Process Emulation</i> Michael Grosskopf, Los Alamos National Laboratory</p>
10:40-11:10 am	30 Minute Break		
11:10-11:55 am	<p>Lamy</p> <p>Contributed Session: Topics in Spatial Statistics</p>	<p>Palace A</p> <p>Contributed Session: Bayesian Perspectives</p>	<p>Palace B</p> <p>Contributed Session: General Interest</p>

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	<p>Chair: Kim Kaufeld, Los Alamos National Laboratory</p> <p><i>Comparison of Alternative Kriging Estimation Methods Including Cross-Validation</i> Long Wang, The Ohio State University</p> <p><i>Anisotropic Functional Blind Deconvolution with Application to Seismic Inversion</i> Rida Benhaddou, Ohio U.</p>	<p>Chair: Mary Frances Dorn, Los Alamos National Laboratory</p> <p><i>Bayesian-type change-point detection in statistical process control</i> Michael Baron, American University</p> <p><i>Computing Tolerance Bounds Using Bayesian Tools</i> Jose Ramirez, Amgen</p>	<p>Chair: Abigael Nachtsheim, Arizona State University</p> <p><i>The Art of Teaching and Communicating Design of Experiments to Non-Statisticians</i> Shari Kraber</p> <p><i>Innovation, Entrepreneurship and Textiles</i> Samenah Pourmojib, North Carolina State University</p>
12:00-1:30 pm	O'Keefe	<p>Lunch</p> <p>Mary G. and Joseph Natrella Scholarship Awards Presenter: Scott Kowalski, Minitab</p> <p>Special Invited Lunch Speaker Chair: Joanne Wendelberger <i>Color in Scientific Visualization</i> Francesca Samsel U. of Texas at Austin</p>	
1:30-2:00 pm	Lamy Minitab Software Demo	Palace A JMP Software Demo	
2:00-3:30 pm	<p>Lamy Mary G. and Joseph Natrella Scholarship Award Session Chair: Scott Kowalski, Minitab</p> <p><i>Monitoring Stochastic Textured Surfaces</i> Anh Bui, Northwestern University</p> <p><i>Engineering-driven Data Analytics for Quality Improvement</i> Xiaowei Yu, Georgia Tech</p>	<p>Palace A Invited Session Test Planning for Reliability Organizer: Brian Weaver, Los Alamos National Laboratory Chair: Caleb King, Sandia Nat. Lab</p> <p><i>New Developments on Binomial Demonstration Test Plans</i> Lu Lu, U. of South Florida</p> <p><i>Mutual Information Design Criterion for Sensitivity Testing</i> Isaac Michaud, North Carolina State University</p> <p><i>Challenges and New Methods for Designing Reliability Experiments</i> Laura Freeman, Institute for Defense Analysis</p>	<p>Palace B Astrostatistics Interest Group Invited Session Organizer: Jessi Cisewski, Yale Chair: Jogesh Babu, Penn State University</p> <p><i>A New Spectrum Estimation Technique for Asteroseismology</i> Gwendolyn Eadie, U. of Washington</p> <p><i>Hunting for Exoplanets Around Active Stars</i> David Stenning, Imperial College, London</p> <p><i>Disentangling Astronomical Sources with Spatial, Spectral, and Temporal X-ray Data</i> Luis Campos, Harvard</p>

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3:30-4:00 pm	30 Minute Break		
4:00-5:30 pm	<p>Lamy Contributed Session SPC to Knock Your Socks Off Chair: Michael Fugate, Los Alamos National Laboratory</p> <p><i>Quality Control Charts Not Based on Sigma Limits</i> Mian Adnan, Indiana University Bloomington</p> <p><i>Weak Signal Detection Using SPC</i> Gejza Dohnal, Czech Technical University in Prague</p> <p><i>One-Class Peeling for Outlier Detection in High Dimensions</i> Maria Weese, Miami University</p> <p><i>The Structure of "Ultimate Intelligence" and A Possible Future for Optimal Experimental Design</i> Theodore Allen, The Ohio State University</p>	<p>Palace A Contributed Session Screening and Surviving Chair: Claire McKay Bowen, Los Alamos National Laboratory</p> <p><i>Optimal Designs for Gamut Models</i> William Heavlin, Google, Inc.</p> <p><i>Augmenting Definitive Screening Designs for Estimating Second-Order Models</i> Abigail Nachtsheim, Arizona State University</p> <p><i>Minimum Contamination and Beta-Aberration Criteria for Screening Quantitative Factors</i> Po Yang, National Chung Hsing University, Taiwan</p> <p><i>An Empirical Saddlepoint Approximation Method for Smoothing Survival Functions Under Interval-Censoring</i> Manjari Dissanayake, Texas Tech University</p>	<p>Palace B Contributed Session Inference and Genomics Chair: Alicia Dominguez, Los Alamos National Laboratory</p> <p><i>Inference on Location Parameter Under Multivariate Skew Normal Setting</i> Ziwei Ma, New Mexico State University</p> <p><i>Regularized Regression and Parameter Selection Methods in Genomic Data Classification and Disease Prediction</i> Karel Kupka, TriloByte</p> <p><i>Same-Species Contamination Detection in Next Generation Sequencing</i> Tao Jiang, North Carolina State University</p> <p><i>Parameter Inference in Generalized Population Genetics Models</i> Timothy Wallstrom, Los Alamos National Laboratory</p>
5:30-6:00 pm		Palace A Poster Session	Palace B TriloByte Software Demo
6:00-6:25 pm		See below for Presenters and Titles	
6:30-8:30 pm	O'Keefe	<p style="text-align: center;">Banquet</p> <p style="text-align: center;">Chair: Joanne Wendelberger</p> <p style="text-align: center;"><i>75 Years – A Brief History of Los Alamos National Laboratory</i> Alan Carr, Los Alamos National Laboratory Historian</p>	

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Poster Session, 5:30-6:25 pm, Palace A

1. Mian Adnan, Indiana University Bloomington
Range Based Limits for Several Measures of Dispersion, Comparisons and Association for Small Sample
2. Boian Alexandrov, Los Alamos National Laboratory,
Unsupervised Machine Learning for Phase Separation in Lipid Bilayers
3. Claire McKay Bowen, Los Alamos National Laboratory
Noisy Edges and Traits (NET): A Differentially Private Data Synthesis Method for Social Network Data
4. Ying Ju Tessa Chen, University of Dayton
A Data Analytic Framework for Physical Fatigue Management Using Wearable Sensors
5. David Collins, Los Alamos National Laboratory
Nonparametric Bagged Estimators for Binary Response Data
6. Peter Hovey, University of Dayton
Exploring and Investigating Contributing Factors of Injury Severity of Drivers of Emergency Vehicles in Ohio
7. Jiangeng Huang, Virginia Tech
Input-dependent Calibration for Large Computer Experiments
8. Curtis Miller, University of New Mexico
Marginal Probabilities for Conditionally Specified Logistic Regression: An Application With Public Health Data
9. Kevin Quinlan, Penn State
The Construction of ϵ -bad Covering Arrays
10. Richard Warr, Brigham Young University
A Bayesian Nonparametric Approach to Multistate Models
11. Joanne Wendelberger, Los Alamos National Laboratory
Resiliency Assessment for Automated Mobility
12. Li Xu, Virginia Tech
Parametric Analysis for the Variability in High-Performance Computing Systems Using Mixture Distributions