

## 50<sup>th</sup> Annual Fall Technical Conference, Columbus, OH

Thursday, October 12th, 2006			
7:30	Registration Desk Opens		
8:00-9:00	WELCOME / PLENARY SESSION Speaker: J. Stuart Hunter Welcome: The Role of Statistics in Quality....Today Presiding: <span style="color: orange;">Christine-Anderson Cook, Q&amp;P Chair, Los Alamos National Lab</span>		
<b>Session 1</b>	<b>A</b>	<b>B</b>	<b>C</b>
<b>1</b>	<b>50<sup>th</sup> Anniversary: CPID Invited</b>	<b>Advances in CUSUM</b>	<b>Measurement Analysis</b>
9:15-10:00	<b>Ridge Analysis</b>  Norman Draper <i>University of Wisconsin</i>  <b>Moderator:</b> Julia O'Neill <i>Merck &amp; Company, Inc.</i>	<b>Robust-Likelihood CUSUM Charts</b>  Youlan Rao Steven N. MacEachern <i>Ohio State University</i>  <b>Moderator:</b> Gordon Clark <i>Ohio State University</i>	<b>Honest Gage R&amp;R Studies</b>  Donald Wheeler <i>SPC Press</i>  <b>Moderator:</b> Daksha Chokshi <i>Pratt &amp; Whitney</i>
10:00-10:30	BREAK		
<b>Session 2</b>	<b>A</b>	<b>B</b>	<b>C</b>
<b>2</b>	<b>50<sup>th</sup> Anniversary: STAT Invited</b>	<b>Multivariate Process Monitoring</b>	<b>Quality Management</b>
10:30-12:00	<b>Response Surface in 1956 and Now: Changes, Beneficiaries, and Benefactors</b>  Raymond H. Myers	<b>Dimension Reduction of Multivariate Process Data</b>  Søren Bisgaard Xuan Huang <i>University of Massachusetts Amherst</i>	<b>Integrating Management Systems and Audits in the Chemical Industry</b>  Barry Stutts <i>Bayer MaterialScience</i>
12:15-1:45	<b>Key Developments in the History of Mixture Experiments</b> Greg Piepel <i>Pacific Northwest National Laboratory</i>  <b>Moderator:</b> John Cornell <i>University of Florida</i>	<b>Multivariate SPC with Cross- and Autocorrelated Data</b> Murat Kulahci <i>Arizona State University, Tempe</i> Søren Bisgaard Xuan Huang <i>University of Massachusetts Amherst</i>  <b>Moderator:</b> Liz Schiferl <i>Lubrizol Corporation</i>	<b>When Quality Manufactures a Premium Product</b> Susan Christopher <i>Spectro Coating Corporation</i>  <b>Moderator:</b> Chris Rigdon <i>Arizona State University</i>
12:15-1:45	LUNCHEON Speaker: TBA Topic: TBA Presiding: Lori Pfahler, Merck & Co., Inc. ASQ-CPID Chair		
<b>Session 3</b>	<b>A</b>	<b>B</b>	<b>C</b>
<b>3</b>	<b>Journal of Quality Technology</b>	<b>Design and Analysis of Experiments</b>	<b>Tutorial in Experimental Design</b>
2:00-3:30	<b>Split-Plot Fractional Designs: Is Minimum Aberration Enough?</b> Murat Kulahci <i>Arizona State University</i> José G. Ramirez <i>W. L. Gore &amp; Associates, Inc</i> Randy Tobias, <i>SAS Institute, Inc</i>	General Balance Metric for Mixed-Level Fractional Factorial Designs Yong Guo James R. Simpson Joseph J. Pignatiello, Jr. <i>Florida State University</i>	<b>A Factorial Design Planning Process</b>  Shari Kraber Pat Whitcomb <i>Stat-Ease, Inc.</i>
4:00-5:00	<b>Lower System Reliability Bounds from Binary Failure Data Using Bootstrapping</b> Lawrence M. Leemis  <b>Moderator:</b> Enrique del Castillo <i>Penn State University</i>	<b>Rethinking Steepest Ascent</b>  Robert Mee Jihua (Regina) Xiao <i>University of Tennessee</i>  <b>Moderator:</b> Geoff Vining <i>Virginia Tech</i>	<b>Running a Randomized and a Split-Plot Experiment for the Same Experimental Situation</b> James M. Lucas <i>J.M. Lucas and Associates</i> Malcolm C. Hazel <i>Consumers Union</i> <b>Moderator:</b> Wendy Tseng <i>Procter &amp; Gamble</i>
4:00-5:00	Presentation of WILLIAM G. HUNTER AWARD  W. J. YODEN MEMORIAL ADDRESS Speaker: TBA Topic: TBA Presiding:		

**Friday, October 13th, 2006**

7:30

Registration Desk Opens

**Session**

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**Technometrics: Metrology**

**Special Topics**

**Case Studies in Control Charts**

**8:00-9:30**

**Combining Data in Small Multiple Method Studies**  
Charles Hagwood  
*NIST*

**Estimation of Transmitted Errors in Computer Experiments**  
Richard N. McGrath  
Arthur B. Yeh  
Nanhua Zhang  
*Bowling Green State Univ*  
*Yu Zheng, University of Florida*

Julia O'Neill  
Robert DeSonier  
Stephen Conway  
*Merck & Co., Inc.*

**Bayesian Approaches to Calculating a Reference Value in Key Comparison Experiments**

Blaza Toman  
*NIST*

**Moderator:** David M Steinberg  
*Tel Aviv University*

**Screening Experiments for Noise Variables**

David Drain  
*Univ of Missouri, Rolla*  
Theresa L. Utlaut  
*Intel Corporation*

**Moderator:** Will Guthrie  
*NIST*

**Improving The Hospital Discharge Process: A Case Study**

Mary Ann Megimose-McClay  
*Sagata Ltd.*  
Theodore Allen  
*Ohio State University*

**Moderator:** Fred Faltin  
*The Faltin Group*

**9:30-10:00**

**BREAK**

**Session**

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**Supersaturated Designs: SPES Invited**

**Process Capability**

**Case-Studies in Split-Plot Design**

**10:00-11:30**

**Supersaturated Design: A Global Review and Some Research Potentials**  
Dennis Lin  
*Penn State University*

**Cpk; Shooting at the Wrong Target**  
W. T. Brydges  
*Hypertherm, Inc.*

**A First Principles Tutorial of Industrial Split-Plot Designs**  
Timothy J. Robinson  
*University of Wyoming*  
William A. Brennenman  
William R. Myers  
*Procter & Gamble Company*

**An Industrial Application of Supersaturated Designs**

Denise R. Vermilya  
Robert G. Wilkinson  
*Lubrizol Corporation*

**Discussant:**  
Angela Dean  
*Ohio State University*  
**Moderator:** Phil Scinto  
*Lubrizol Corporation*

**A Customer Satisfaction/Process Capability Approach to Short Run Processes**  
Fred Spiring  
*The University of Manitoba*

**Moderator:** Dean Neubauer  
*Corning Incorporated*

**Split-Plot Experimental Designs in a High Throughput Reactor**  
Flor Castillo  
Jeff Sweeney  
*The Dow Chemical Company*

**Moderator:** Dotty Sempolinski  
*Corning Incorporated*

**11:45-1:15**

**LUNCHEON**

Speaker: Mary Ellen Bock, Purdue University, Department Head, Department of Statistics, ASA President-Elect  
Topic:

Presiding: Robert Wilkinson, The Lubrizol Corporation, ASA-SPES Chair

**Session**

**A**

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**Recent Advances in DOE**

**Control Charting**

**Data Exploration**

**Designing Factorial Experiments with Binary Response**

David M. Steinberg  
*Tel Aviv University*

**Asymptotic behavior of the variance of the EWMA statistic for autoregressive processes**

M.B. (Thijs) Vermaat  
*University of Amsterdam*

**Interactive Data Mining and DOE: Accelerating Improvement in Six Sigma**

Philip J. Ramsey  
*University of New Hampshire*  
Marie Gaudard  
Mia L. Stephens, *North Haven Group*

**Prediction Variance Properties and G-Criterion Location for Second-Order Cuboidal SPD**

Wayne Wesley  
James Simpson  
*Florida State University*  
Peter Parker  
Joseph Pignatiello, Jr  
*NASA Langley Research Center*  
**Moderator:** Christine Anderson – Cook, *Los Alamos National Labs*

**Monitoring Multivariate Process Variability for Individual Observations**

Arthur B. Yeh,  
*Bowling Green State Univ*  
Longcheen Huwang  
Chien-Wei Wu  
*National Tsing Hua University*

**Moderator:** Darrell Radson  
*Drexel University*

**Effective use of meta-modeling for industrial process development**

Theresa L. Utlaut  
*Intel Corporation*  
David Drain, *Univ of Missouri, Rolla*

**Moderator:** Jeff Luner  
*The Boeing Company*

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Short Course: Willis Jensen, *Virginia Tech*  
Bob Brill, *Astaris*

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