

# CPID Fall Newsletter

NOVEMBER 2016

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## Message From the Chair

Welcome to the November issue of the CPID newsletter.

I would like to take this opportunity to thank the CPID leadership for the great support this year: Anne Driscoll from Virginia Tech, chair-elect; Brooke Marshall from Merck, past chair; Jennifer Van Mullekom from Virginia Tech, secretary; Ashley Childress from Eastman, treasurer; Sarah Burke from The Perduco Group, communications chair; Jennifer Kensler from Shell, membership chair; Dotty Sempolinski, education chair; Maria Weese from Miami University, FTC short course chair; Malcom Hazel, Shewell Award chair; William Notz, Youden and Wilcoxon Award chair; and Kevin White from Eastman, the FTC steering committee representative. Also many thanks to Shirl Furger at ASQ and all other volunteers that have donated the time and effort to CPID.

It has been a good year for the division. Highlights of the accomplishments are the creation of the first framework of the Body of Knowledge, 389 new members, and a very strong financial state. Also, as CPID chair I had the opportunity to present at CICEA—Conferencia Internacional de Calidad y Estadística Aplicada. The conference was organized by Professor Geoff Vining from Virginia Tech with the Universidad de Piura in Peru. The objective of this conference is to demonstrate the importance of statistics in the manufacturing and service industry. The event was very successful, with the participation of students, faculty, and invited speakers from Brazil, Netherlands, Peru, Spain, and United States. Besides the interchange of ideas, methods, and examples, we also enjoyed outstanding Peruvian hospitality in one of the most exotic and beautiful countries in South America.

CPID was also an exhibitor at the World Conference on Quality Improvement in Milwaukee, WI. Our booth was very popular and we enjoyed the opportunity to meet and hear from our members.

The Fall Technical Conference (FTC) in Minneapolis, MN, was also a very successful event. Many thanks to Shari Kraber from Stat-Ease for organizing the conference and to all the member leaders who donated the time and effort to support it. Our planning meeting was led by Anne Driscoll, resulting in very clear objectives for 2017. Another important highlight is the transfer of CPID archives consisting of documents, newsletters, and financial statements dating back to the creation of CPID in 1950 through 1996. These important documents tell the story of the first 46 years of the division. Fragments of the archive will be shared in future newsletters.

Anne Driscoll will take over as chair on January 1, 2017, and I will serve through December 2016. I want to thank all our CPID members for the opportunity to serve as your chair this past year. I have been honored to lead this passionate and active group of volunteers.



Flor Castillo  
CPID Chair, 2016

# Summary of the 60<sup>th</sup> Annual Fall Technical Conference

Dear Members of the Chemical and Process Industries Division,

I wanted to give you a short summary of this year's highly successful 60<sup>th</sup> Annual Fall Technical Conference, which was held in Minneapolis, MN, October 5 – 7. Approximately 140 people attended this year. John Szarka and the technical committee put together an outstanding program, kicked off by Lynne Hare's plenary on "Hahn Space." We welcome limericks to be submitted using the guidelines provided by Lynne!

Other highlights included the opening reception on the outdoor terrace and the SPES panel discussion on leadership perspectives. Doug Montgomery gave a wonderful tribute on the contributions of Dr. Connie Borror, which was followed by commentary provided by several other participants. Joanne Wendelberger (Los Alamos National Laboratory) provided the Youden Address, "Understanding Today's Complex World," and Jessica Utts, ASA president, spoke eloquently on "Communicating the Value of What Statisticians Do." The hospitality suite provided a welcome respite at the end of each day!

The conference was kicked off with four short courses covering the topics of mixture experiments, using R for big data, using R for DOE, and advanced topics in split-plot designs. About 50 people attended these courses, with some of them nearly sold out. Remember to register early next year!

Finally, I would like to thank the FTC Steering Committee, the CPID leadership, and the many volunteers for their support to make the event such a success! We look forward to seeing all of you at the 61<sup>st</sup> FTC, which will be held in Philadelphia, PA, October 5 – 6, 2017.

Shari Kraber  
**2016 FTC General Chair**



# William G. Hunter Award 2016: Dr. A. Blanton Godfrey



The ASQ Statistics Division is pleased to announce that Dr. A. Blanton Godfrey is the recipient of the 2016 William G. Hunter Award. The William G. Hunter Award was established by the Statistics Division in 1987 to recognize the many contributions of its founding chair at promoting the use of applied statistics and statistical thinking. The attributes that characterize Bill Hunter's career—consultant, educator for practitioners, communicator, and integrator of statistical thinking into other disciplines—are used to choose the recipient.

Godfrey is well known to many in industry and academia as a visionary leader in applied statistics and quality. He has made impactful contributions in a wide array of application areas that include new technology development, manufacturing, product reliability and quality, and healthcare quality. Blanton is currently the Joseph D. Moore Distinguished University Professor in North Carolina State University's College of Textiles, where he also served from 2000 to 2014 as the dean. He was chair and CEO of Juran Institute Inc. from 1987 to July 2000. From 1973 to 1987, he was a member of the technical staff at AT&T Bell Laboratories, the last five years as head of the quality theory and technology department. Blanton's interests cover many areas of mathematical and applied statistics and quality management. He has had a long involvement in healthcare quality management. He currently serves as a member and past chair of the board of directors for the Institute for Healthcare Improvement. Blanton contributed to the creation of the Malcolm Baldrige National Quality Award and served as a judge for the first three years of the award. He has given seminars, consulted, or taught courses in over 60 countries and his written materials have been translated, collectively, in over 15 languages. He has personally worked with many of the top executives of leading companies throughout the world.

# The following awards were presented at the 2016 FTC for papers published in *Technometrics* in 2015:

The **Frank Wilcoxon Prize** for the best practical application paper in the previous year's issues of *Technometrics* was awarded to Yili Hong, Yuanyuan Duan, William Q. Meeker, Deborah L. Stanley, and Xiaohong Gu for their paper "Statistical Methods for Degradation Data with Dynamic Covariates Information and an Application to Outdoor Weathering Data," (May 2016, 180-193).

The **Jack Youden Prize** for the best expository paper in the previous year's issues of *Technometrics* was awarded to Andrew Hoegh, Scotland Leman, Parang Saraf, and Naren Ramakrishnan for their paper "Bayesian Model Fusion for Forecasting Civil Unrest," (August 2016, 332-340).

The **Shewell Award** for the best presentation and supporting documents at the 2015 FTC was also presented to Willis Jensen, W.L. Gore & Associates, for his presentation titled "Confirmation Runs in Design of Experiments."

Congratulations to all of the award winners!

Both of the award-winning papers are available free of charge for a limited time for our members. They can be accessed in the following links:

Wilcoxon Paper: <http://amstat.tandfonline.com/doi/full/10.1080/00401706.2014.915891>

Youden Paper: <http://amstat.tandfonline.com/doi/full/10.1080/00401706.2014.1001522>

# Call for Papers

## 61<sup>st</sup> Annual Fall Technical Conference

Statistics: Powering a Revolution in Quality Improvement

October 5 – 6, 2017 @ Double Tree by Hilton Hotel Center City, Philadelphia, PA

Co-sponsored by:

### ASQ

Chemical and Process  
Industries Division

Statistics Division

### American Statistical Association

Section on Physical  
and Engineering Sciences

Section on Quality  
and Productivity

We invite you to submit abstracts for presentation at the 61<sup>st</sup> Fall Technical Conference to be held October 5 – 6, 2017, in Philadelphia, PA. The Fall Technical Conference has long been a forum for both statistics and quality and is co-sponsored by ASQ (Chemical and Process Industries Division and Statistics Division) and the American Statistical Association (Section on Physical and Engineering Sciences and Section on Quality and Productivity). The goal of this conference is to engage researchers and practitioners in a dialogue that leads to more effective use of statistics to improve quality and foster innovation.

If you are interested in presenting an applied or expository paper in any of the categories of Statistics, Quality, Experimental Design, or Tutorials/Case Studies, contact any of the committee members listed on the following page, preferably by email. Work should be strongly justified by application to a problem in engineering, manufacturing, big data, process/chemical industry, physical sciences, or a service industry. The mathematical level of the papers may



range from basic to that of the *Journal of Quality Technology* or *Technometrics*. Please note which level of audience is targeted (introductory, intermediate, or advanced) so the committee can assign papers appropriately and plan a balanced program. The program committee welcomes any suggestions for special session topics or speakers. If you have ideas, please contact one of the program committee members listed on the following page.

**Abstract Submission Deadline Is February 28, 2017**

## Program Committee

### SPES

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## General Conference Co-Chairs

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Please follow the abstract format (provided below). Papers are selected based on subject matter, technical correctness, usefulness, interest, clarity, and readability.

## Abstract Format (1 Page Max)

### Title of Presentation

First author

Affiliation

Daytime phone number

Paper mail address

Email address

Second author

Affiliation

Daytime phone number

Paper mail address

Email address

Third author

Affiliation

Daytime phone number

Paper mail address

Email address

**Presenter:** name of presenter

**Keywords:** include three to five key words or phrases

**Purpose:** One sentence. To derive, prove, synthesize, review, present, inform, encourage, motivate, enlighten, exemplify, highlight, etc.

### Abstract

The abstract should include the following three components:

1. Motivation or background
2. Description of work done
3. Significance. Are there improvements, applications, new abilities, new points of view, etc.?  
How will the status quo be changed?

### Session Preference (choose one)

Statistics

Quality

Experimental Design

Tutorial/Case Study

### Target Audience (choose one)

Introductory/Practitioner

Intermediate

Advanced/Theoretical

One presenter for each talk will receive a 50 percent discount on conference registration.

## CPID Leadership, 2016



**CPID's Mission:** The Chemical and Process Industries Division facilitates the interchange of ideas, tools, practices, and solutions necessary to address real chemical and process industry problems.

**CPID's Vision:** To be the customer-centered volunteer organization which is the primary and most credible global resource for quality improvement and management practices in the Chemical and Process Industries.

LEADERSHIP POSITION	NAME	EMAIL
Chair	Flor Castillo	facas@mac.com
Chair-Elect	Anne Driscoll	adriscoll@vt.edu
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Audit Chair (Past Chair 2)	Stephanie DeHart	stephanie.pickle@gmail.com
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FTC 2016 Technical Program Representative	Stephanie DeHart	stephanie.pickle@gmail.com
FTC 2016 Short Course Representative	Maria Weese	weeseaml@miamioh.edu

### How to get involved?

For more information about the division, please visit our website ([asq.org/cpi/](http://asq.org/cpi/)). We encourage you to stay connected to the division by joining us on [LinkedIn](#).

If you have any questions or suggestions for the division or would like to increase your involvement with the division, please contact Jennifer Kensler, membership/VoC chair, at: [jennifer.kensler@shell.com](mailto:jennifer.kensler@shell.com) or Flor Castillo, 2016 CPID chair, at: [facas@mac.com](mailto:facas@mac.com).

Newsletter Editor: Sarah Burke

