**Synapse: Applied Healthcare Operations Management & Research Conference**

Thursday, May 7, 2015  
at  
Washington Hilton, Washington DC  
Production & Operations Management Society Conference Hotel  
Organized By  
College of Healthcare Operations Management (CHOM)

Click on this link to register for the conference: www.poms.org

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### Conference Objectives

This conference connects healthcare researchers and practitioners to actively exchange ideas and approaches. This helps all of us to develop solutions that are innovative, practical and sustainable in improving the operations of healthcare. This conference provides a venue for discussion between those working and researching healthcare delivery issues to share what works, what doesn’t and why, and which areas need greater attention. The conference is meant to complement the POMS annual meeting (May 8-11, 2015) as it gives participants a chance to learn from practitioners and researchers and allows time for brainstorming new research ideas and approaches to improving the effectiveness of healthcare systems.

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### Panel Discussion: Making OM/Or Mainstream – Federal Govt. Funding Agencies Perspective

**Heather Woodward-Hagg, PhD**  
Acting National Veterans Health Administration, Veterans Engineeri

**Diwakar Gupta, Ph.D.** is currently assigned to the National Science Foundation, where he serves as a program director for the Service, Manufacturing, and Operations Research program in the division of Civil, Mechanical, and Manufacturing Innovation of the Directorate for Engineering. He holds a Ph.D. in Management Science from Univ. of Waterloo. He is a professor of Industrial & Systems Engg. at Univ. of Minnesota. His research interests are in stochastic models of supply chain and healthcare operations management. He has published extensively in the top management science and operations management journals.

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### Roundtable Discussions

Two thirty-minute sessions of concurrent discussions led by practitioners and process improvement experts in breakout groups of up to 10 will be held. Discussion leader(s) present operational challenges they face, and some solutions they have implemented. Researchers will relate solutions to existing knowledge and then jointly develop future research questions.

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### Showcase: 3 Applied Research and Implementation Presentations

#### Redistricting U.S. Liver Allocation to Save Lives and Mitigate Inequity

Sommer Gentry, Eric Chow, Allan Massie, Nino Dzebashvili, Corey Wickliffe, David Axelrod, Krista Lentine, Mark Schnitzler, Dorry Segev

#### Healthcare Response to Urban Disasters: Care Infrastructure Readiness, Vulnerability, and Improvement

Andres F. Jola Sanchez, Jonathan E. Helm, Alex F. Mills, Mohan V. Tatikonda (Indiana University)  
Bobby A. Courtney (Former CEO, MESH Coalition, Indianapolis)

#### Using Data Analytics and Systems Modeling to Inform Hospital Management and Policy Making: A Case of Hospital Obstetrics Capacity Analysis in New York City

Linda Green, Nan Liu (Columbia University)
Synapse: Applied Healthcare Operations Management and Research Conference  
May 7th, 2015 - Hilton Hotel, Washington D.C.

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**ROUNDTABLE DISCUSSION LEADERS**

**MGH: Massachusetts General Hospital, Boston, MA**
1. Bethany Daily, MHA (Sr. Admin. Director Perioperative Services)
2. Cecelia Zenteno Langlois, PhD (Operations Research Manager, Perioperative Service)

**MHCD: Mental Health Center of Denver, Denver, CO**
3. Linda LaGanga, Ph.D. (VP Quality Systems & Operational Excellence)

**SIM: SimIT LLC, Denver, CO**
4. Allyson Robbins, PharmD (Co-founder SimIT)

**CSHA: Cornell University School of Hotel Admin, Ithaca, NY**
5. Rohit Verma, PhD (Prof. Service Operations)

**BCM: Baylor College of Medicine, Houston, TX**
6. Panos Kougias, MD (Chief Vascular Surgery, VA Houston, Associate Professor Baylor College of Medicine)

**VUMC: Vanderbilt Univ Med Ctr, Nashville, TN**
7. Denise White, Ph.D. (Assistant Professor, Director of Quality and Transformation Analytics)
8. Paul St. Jacques, MD (Associate Professor of Anesthesiology, Clinical Director Quality)
9. Brian S. Rothman, MD (Assistant Professor – Anesthesiology, Medical Director Informatics)
10. Rajnish Gupta, MD (Asst. Professor of Anesthesiology, Director Acute Pain Service)

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**College of Healthcare Operations (of POMS) – Conference Organizers**

**David Dobrzykowski, Ph.D. (VP Meetings)** - ddobrzykowski@business.rutgers.edu  
**Linda Laganga, Ph.D. (VP Outreach)** - Linda.Laganga@mhcd.org  
**Vikram Tiwari, Ph.D. (President)** - Vikram.Tiwari@Vanderbilt.Edu
PANEL DISCUSSION: BIG DATA AND HEALTHCARE – HYPE OR REALITY?

Bruce Golden, Ph.D., is the France-Merrick Chair in Management Science and a Full Professor in the Robert H. Smith School of Business. He received his Ph.D. from M.I.T. in 1976. He served as Department Chairman of Management Science and Statistics from 1980 to 1996. His research interests include business logistics, networks, and healthcare analytics. He has won numerous awards including the Distinguished Scholar-Teacher Award, the INFORMS Computing Society Prize, and the Harvey J. Greenberg Award for lifetime contributions to the INFORMS Computing Society. He was named an INFORMS Fellow in 2004. Bruce has published extensively and is widely cited. He has served as the Editor-in-Chief of a major journal in his field since 1992. In addition, he started a business logistics software company with several colleagues in 1980, grew the company, and sold it in 1998.

Juergen A. Klenk, PhD, a Principal Scientist with Exponent, Inc., has over 20 years of professional experience in the commercial and public health market. He is leading Exponent’s Healthcare and Analytics Services team, conducting work that spans fields such as Health Economics and Outcomes Research, Healthcare Quality Research, Clinical Trials Optimization, Regulatory Science, Health Preparedness and Surveillance, and Big Data Analytics. Dr. Klenk’s work focuses on providing advanced analytics services such as statistics, data mining, predictive modeling, optimization, and microsimulation in conventional and Cloud based environments to commercial, non-profit, and government clients to enable data-driven planning and decision making. Previous professional affiliations include Booz Allen Hamilton, Definiens AG, and IBM. Dr. Klenk holds a Ph.D. in Mathematics and a M.S. in Physics and Mathematics from Tuebingen University, he is a PMI-certified Project Management Professional, and he holds a Six Sigma Green Belt and an IBM MicroMBA certification. He spent his academic career at Tuebingen University, Yale University, and the Australian National University.

Arnie Greenwich, Ph.D., is currently a faculty member at the Robert H. Smith School of Business, University of Maryland. He recently retired from the IBM Corporation, where he was a Distinguished Engineer. His career spanned more than 40 years in which he delivered advanced business analytics services for both public- and private-sector clients including many healthcare organizations. Arnie is active in the professional society, INFORMS, and is one of the first 20 individuals to receive their Certified Analytics Professional (CAP) certification. He holds a Ph.D. in Mathematics from the University of Rochester where he focused on Measure Theory, Probability and Functional Analysis.

Margrét Vilborg Bjarnadóttir, Ph.D., is an Assistant Professor of Management Science and Statistics at Robert H. Smith School of Business. Dr. Bjarnadóttir’s research focuses on data analytics and surveillance system design with applications in health care and finance. Her work includes healthcare cost prediction, drug surveillance, and drug pattern analysis. Dr. Bjarnadóttir has advised number of health care start-ups such as D2Hawkeye, 360Fresh and Benefit Science on cost predictions and risk evaluations. Dr. Bjarnadóttir holds a B.Sc. degree in Mechanical and Industrial Engineering from the University of Iceland and a Ph.D. in Operations Research from the Massachusetts Institute of Technology.

John Silberholz is a PhD student at MIT in the Operations Research Center. In this role, he has researched the application of healthcare analytics in the design of chemotherapy regimens for advanced cancers and in the design of population screening strategies for prostate cancer. His research on designing chemotherapy regimens was recently awarded the William Pierskalla Award, the top award for a healthcare paper in operations research. Prior to coming to MIT, John was co-founder of Enertaq, a smartgrid startup company that used analytics techniques to provide electricity grid reliability services. He graduated summa cum laude with bachelor’s degrees in mathematics and computer science from the University of Maryland.

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