

# Kettering UNIVERSITY Conference Agenda

One City - 100 Years Under Variability - FISC 2014

Keynote Speakers/Tutorials
Invited Talks
Contributed Talks
Posters/Announcements
Greenfield Village and Sloan Museum

Tuesday, June 24, 2014

8:00 am - 4:00 pm	Registration
8:15 am - 8:30 am 8:30 am - 9:30 am	<p><b>Opening Ceremony</b>  <b>Robert McMahan, (Kettering University President)</b></p> <p>(McKinnon Theatre - Chair: <b>Leszek Gawarecki</b>)</p> <p><b>Keynote Address: Dayne Walling (Flint City Mayor):</b> Using Statistics in Creating Master Plan for Flint</p>
9:30 am - 10:15 am	<p><b>Keynote Address: Nozer Singpurwalla (The City Uiversit of Hong Kong, Hong Kong):</b> The Indicative and Irrrealis Moods of Bayesians</p>
10:15 am - 10:45 am	Coffee Break (Faculty Senate Room)
10:45 am - 11:15 am	<p><b>Room - 2-225 - Chair: Nozer Singpurwalla</b>  <b>Session "Reliability" Organized by Evans Gouno (Universite de Bretagne Sud, France), Evans Gouno and Lise Guerrineau (France):</b> Failure Rate Estimation in Dynamic Environments</p>
11:15 am - 11:40 am	<p><b>Laurent Bordes and Sophie Mercier (France):</b> Extended Geometric Processes with Application to Reliability</p>
11:40 am - 12:05 pm	<p><b>Yann Dijoux and Isha Dewan (France):</b> Modeling Repairable Systems with a Burn-in Period with Asymmetric Virtual Age</p>
12:05 pm - 12:30 pm	<p><b>Ananda Sen and Anupap Somboonsavatder (U of M, USA, and Chulalongkorn University, Bangkok, Thailand):</b> Parametric Analysis of Repairable Systems under Competing Risks</p>
12:30 pm - 1:30 pm	Lunch Break (Sunrise Room)
1:30 pm - 2:15 pm	<p><b>Room - 2-225 - Chair: Leszek Gawarecki</b>  <b>Corey Ames (Statistical Crime Analyst, Michigan, USA):</b> Data Driven Approaches to Crime</p>
2:15 pm - 2:45 pm	<p><b>Peter Chami, Tara Innis, Berng Sing (Bridgetown, Barbados):</b> Life in Bridgetown, Barbados, according to the Westbury Cemetery Records 1877-1976</p>
2:45 pm - 3:15 pm	<p><b>Theresa Atkinson and Anand Guldur (Kettering University, USA):</b> Crash Lab Data and Hypotheses Testing</p>
3:15 pm - 3:45 pm	Coffee Break (Faculty Senate Room)
3:45 pm - 4:15 pm	<p><b>Room - 2-225 - Chair: Leda Minkova</b>  <b>Session "Inequality Measures", Organized by Francesca Greselin (Milano-Bicocca University, Milan, Italy)</b>  <b>Francesca Greselin (Milan, Italy):</b> Measuring Inequality at the Time of the Great Divergence</p>

4:15 pm - 4:40 pm	<b>Francesco Porro (Milan, Italy):</b> The Statistical Tools for Understanding the Dynamic of Inequality in Flint
4:40 pm - 5:05 pm	<b>Alberto Arcagni (Milan, Italy):</b> Income Distribution at Flint: A Comparison of the Inequality with Other American Cities
5:05 pm - 5:30 pm	<b>Alexandru V. Asimit ( City University London, UK):</b> Characterizing Asymptotic Dependence via Conditional Kendall's Tau
7:15 pm - 9:30 pm Conference Cocktail Party	<b>Restaurant “Brick Street Bar &amp; Grille”, ( 1223 E Grand Blanc Road- Grand Blanc, MI 48439, Room Garden and Patio):</b> Appetizers (CHEESE, FRUIT AND CRACKER DISPLAY), soft drinks, Two servings of alcoholic drink (beer, wine or hard). If someone stays for dinner, should order dinner separately with out of pocket payment. Extra drinks on your own.

### Wednesday, June 25, 2014

8:00 am - 4:00 pm	Registration	
8:30 am - 9:30 am	Exhibits Open	Room - 2-225 - Chair: <b>B. Dimitrov</b> <b>Keynote Talk: Ernest Fokoue (Rochester Institute of Technology, USA),</b> Harnessing the Power of Statistical Methods in an era of Big Data Predictive Analytics
9:30 am - 10:15 am		Room - 2-225 - Chair: <b>B. Dimitrov</b>
9:30 am - 9:55 am		<b>Open Forum: Big Data Predictive Analytics</b>
10:15 am - 10:45 am		Coffee Break (Faculty Senate Room)
10:45 am - 12:30 pm		Room - 2-225 - Session “Recent Applications of Statistical Data Mining for Big Data Predictive Analysis”, <b>organized by E. Fokoue, Rochester Institute of Technology (RIT), New York</b> <b>Chair E. Fokoue (RIT, New York)</b>
10:45 am - 11:10 am		<b>Jo Bill (RIT, USA):</b> A Comparative Analysis of Predictive Learning Algorithms on High-Dimensional Microarray Cancer Data
11:10 am - 11:35 am		<b>Zichen Ma (RIT, USA):</b> Statistical Methods for Signal Processing with Applications to Accent Recognition
11:35 am - 12:05 pm		<b>Xingchen Yu (RIT, USA):</b> Probit-Normal Topic Models
12:05 pm - 12:30 pm		<b>Sahla Qahl (RIT, USA):</b> Feature Extraction and Machine Learning Techniques for Knowledge Discovery in Sacred Texts
12:30 pm - 1:30 pm		Lunch Break (Sunrise Room)
1:30 pm - 2:15 pm		Room - 2-225 - Chair: <b>Srinivas Chakravarthy</b> <b>Keynote Talk: Maxim Finkelstein (University of the Free State, Bloemfontein, South Africa):</b> Virtual Age and Optimal Maintenance
2:15 pm - 2:45 pm		<b>Gheorghe Mishkoy ( Chisinau, Moldova):</b> Generalized Priority Systems, Analytical Results and Numerical Algorithms
2:45 pm - 3:15 pm	<b>Velika Dragieva (Sofia, Bulgaria):</b> On the Busy Period in One Finite Queue of M/G/1 Type with Losses	

3:15 pm - 3:45 pm	Coffee Break (Faculty Senate Room)
3:45 pm - 5:55 pm	Room - 2-225 - Chair: <b>Gheorghe Mishkoy</b> Session " <b>Non-Gaussian Stochastic Models: Theory and Applications</b> ", organized by <b>Krzysztof Podgorski, Lund University, Sweden</b>
3:45 pm - 4:15 pm	<b>Krys Podgorski (Lund, Sweden):</b> Random Processes and Fields Driven by Second Order Levy Motions
4:15 pm - 4:40 pm	<b>Anastassia Baxevani (Cyprus):</b> Sample Path Asymmetries in Random Processes Driven by a Second-Order Levy Motion
4:40 pm - 5:05 pm	<b>Tomasz J. Kozubowski (Nevada, USA):</b> Discrete Pareto Distributions
5:05 pm - 5:30 pm	<b>Anna K. Panorska (Nevada, USA):</b> A Discrete Generalization of Truncated Pareto with Application to the Global Distribution of Diet Breadth in Insect Herbivores
5:30 pm - 5:55 pm	<b>Galia Novakova (Sofia University, Bulgaria):</b> Data Mining for Software Development Quality Management

#### Thursday, June 26, 2014

	<b>Greenfield Village and Sloan Museum</b>
8:30 am	<b>Bus departures from the conference location</b>
	Lunch at Greenfield Village - On your own
5:00 pm	Bus returns from Greenfield Village directly to Sloan Museum
5:30 pm - 8:30 pm	Gala Dinner at Sloan Museum (1221 E Kearsley St, Flint, MI 48503)
9:00 pm	Bus returns participants at the conference location

**Friday, June 27, 2014**

8:00 am - 4:00 pm	Registration	
8:30 am - 10:15 pm	Exhibits Open	<p><b>Room - 2-225 - Chair: Kristina Sendova (UWO, Ontario, Canada)</b>  <b>Session organized by Leda Minkova (Sofia University, Bulgaria)</b></p> <p><b>Keynote Talk: Leda Minkova and Stefanka Chukova (Bulgaria and New Zeland):</b>  Polya-Aeppli of Order <math>k</math> Risk Model</p>
8:30 am - 9:15 am		<p><b>Nedialko Dimitrov, Stanko Dimitrov and Stefanka Chukova (Waterloo-Canada, Austin-USA and Wellington-NZ):</b> Robust Decomposable Markov Decision Processes Motivated by allocating School Budgets</p>
9:15 am - 9:45 am		<p><b>Galia Novakova (Sofia University, Bulgaria),</b> Forecasting Stock Market Trends</p>
9:45 am - 10:15 am		Coffee Break
10:15 am - 10:45 am		<p>Faculty Senate room and the lobby in front of McKinnon Theatre</p> <p>and <math>\int_{-\infty}^{\infty} Ar(t) \circ Flin(t) dt</math> - <b>Flint Artist's exhibition</b> and Last opportunity for American souvenirs: sales (from 10:00 am to 4:00 pm) in the lobby.</p>
10:45 am - 12:30 pm		<p><b>Room - 2-225 - Chair V. Kaishev (City University London, UK)</b>  <b>Session organized by Kristina Sendova (UWO, Ontario, Canada)</b></p>
10:45 am - 11:15 am		<p><b>Zhong Li, Kristina Sendova, and Chen Yang (UWO, Ontario, Canada):</b> Dual Surplus Models: Current Results and Future Potential</p>
11:15 am - 11:40 am		<p><b>Hristo Sendov and Shen Shan (UWO, Ontario, Canada):</b> New Representation Theorems for Completely Monotone and Bernstein Functions with Convexity Properties on their Measures</p>
11:40 am - 12:05 pm		<p><b>Yuefeng Ji and Xiaoming Liu (UWO, Ontario, Canada):</b> Longevity-indexed Life Annuity: Managing longevity Risk via Product design</p>
12:05 pm - 12:30 pm		<p><b>Yi Ding and Xiaoming Liu (UWO, Ontario, Canada):</b> Markovian Aging Model for Multi-cohorts</p>
12:30 pm - 1:30 pm		Lunch Break
1:30 pm - 2:25 pm		<p><b>Room - 2-225 - Chair: L. Gawarecki</b></p> <p><b>Keynote Talk: Vidyadhar Mandrekar (MSU, Lansing, USA):</b> Teaching Statistics to Engineers using Experiential Data</p>
2:30 pm - 2:55 pm		<p><b>Room - 2-225 - Chair: L. Gawarecki</b></p> <p><b>Pranesh Kumar, Faramarz Kashanchi (University of British Columbia, Canada):</b> On the <math>L_p</math>-norm Regression Models for Estimating Value-at-Risk</p>
2:55 pm - 3:15 pm	<p><b>POSTER SESSION (Students from Kettering for the City of Flint historical data studies, and Applications in Engineering process improvement)</b></p>	
3:15 pm - 3:45 pm	<p>Faculty Senate room and the lobby in front of McKinnon Theatre</p> <p>Coffee Break</p> <p>and <math>\int_{-\infty}^{\infty} Ar(t) \circ Flin(t) dt</math> - <b>Flint Artist's exhibition</b> and Last opportunity for American souvenirs: sales in the lobby.</p>	

3:45 pm - 5:30 pm		<b>Room - 2-225 - Chair: V. Mandrekar</b> Special Session <b>“Spatial Statistics”</b> , organized by <b>Hao Zhang (Purdue University, West Lafayette, Indiana, USA)</b>
3:45 pm - 4:25 pm		<b>Keynote Talk: Piyas Chakraborty and Hao Zhang (West Lafayette, USA):</b> Modeling the Frequency and Magnitude of Extreme Events
4:25 pm - 4:55 pm		<b>Juan Hu and Hao Zhang (West Lafayette, USA):</b> Optimal Low Rank Model for Massive Spatial Data
4:55 pm - 5:25 pm		<b>Tonglin Zhang (West Lafayette, USA):</b> Testing Independence between Marks and Points of Marked Point Process

### Saturday, June 28, 2014

8:30 am - 9:30 am	Exhibits Open - Faculty Senate Room	<b>Room - 2-225 - Chair: Tzvetan Ignatov (Sofia University, Bulgaria)</b> <b>Tutorial: Boyan Dimitrov (Kettering University, USA):</b> Dependence between Random Events and Its Use	
9:30 am - 10:15		Vladimir Kaishev (City University, UK): Geometrically Designed Variable Knots Regression Splines with Applications in Actuarial modeling	
10:15 am - 10:45 am		Coffee Break (Faculty Senate Room)	
10:45 am - 12:25 pm		<b>Room - 2-225 - Chair: B. Dimitrov (Kettering University)</b> <b>Session “Risk Analysis and Modeling”</b> , organized by <b>Vladimir Kaishev (City University, London, UK)</b>	
10:45 am - 11:10 am		Zvetan G. Ignatov (Sofia University, Bulgaria): Time to Ruin and Deficit at Ruin in a Dependent Risk Model with Claims Arrivals following a Point Process with Independent Increments	
11:10 am - 11:35 am		Pietro Millossovich (City University, UK): Sensitivity Analysis of Internal Risk Models	
11:35 am - 12:00 pm		<b>Maria Dolores Martinez (City University, UK):</b> In-sample Forecasting with Applications to Non-life Insurance and Mesothelioma Mortality	
12:00 pm - 12:45 pm		Closing Session <b>Keynote speaker Elart von Collani (Wuerzburg, Germany): Stochastics, Statistics and the American Statistical Association</b>	
12:45 pm - 1:45 pm			Lunch Break
1:45 pm - 5:25 pm		Conference adjourned	

