



NSF-Duke-NCSU-UNC

Joint MUMS Program Transition - SPUQ Workshop, May 14-17, 2019

TENTATIVE SCHEDULE

(Sessions and times may change considerably!)

Tuesday May 14th

MUMS Transition Workshop

Sitterson Hall, Room 014, UNC

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|-------------|--|
| 8:50-9:00 | Welcome
Bruce Pitman , University at Buffalo and SAMSI
David Banks , SAMSI |
| 9:00-11:30 | Data Fusion Working Group (with a break) |
| 11:30-12:30 | UQ in Materials Working Group |
| 12:30-2:00 | Lunch |
| 2:00-5:30 | Prediction Uncertainty and Extrapolation Working Group (with a break) |
| 5:45 | Shuttle to Hotel |

Wednesday May 15th

MUMS Transition Workshop

Sitterson Hall, Room 014, UNC

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| 9:00-11:30 | Reduced Order Models Working Group (with a break) |
| 11:30-1:00 | Storm Surge Hazard and Risk Working Group |
| 1:00-2:30 | Lunch
(Box lunch for working group leaders in Room FB009 - to discuss Final Report) |
| 2:30-5:30 | Foundations of Model Uncertainty Working Group (with a break) |
| 5:45 | Shuttle to Hotel |

Thursday, May 16th

SPUQ Workshop

Sitterson Hall, Room 014, UNC

- 8:50-9:00 Opening Remarks SPUQ
Elaine Spiller, Marquette University/SAMSI and **Roshan Joseph**, Georgia Tech University
- 9:00-10:00 Keynote Address
Jeff Wu, Georgia Tech University
- 10:00-10:30 Break
- 10:30-12:00 Invited Session on Design in UQ

William Brenneman, Proctor and Gamble
“Experimental Design for Model Calibration (Tentative)”

Devon Lin, Queens University
“A Sequential Design Approach for Calibrating a Dynamic Population Growth Model.”

David Woods, University of Southampton
“Design of Experiments for Calibration of Computational Models”
- 12:00-1:30 Lunch
- 1:30-3:00 Invited Session on Dimensional Analysis

Earl Lawrence, Los Alamos National Laboratory
“title”

Will Welch, University of British Columbia
“title”

Brian Williams, Los Alamos National Laboratory
“title”
- 3:00-3:30 Break
- 3:30-5:00 Invited Session on “Perspectives on Sensitivity in UQ”

Pierre Gremaud, North Carolina State University
“Mathematical Perspective”

Max Morris, Iowa State University
“Statistical Perspective”
- 5:00-5:15 Discussion
Ralph Smith, North Carolina State University

5:15-5:30 Floor Discussion
5:30 – 7:00 Poster Session and Reception
7:15 Shuttle to Hotel

Friday, May 17th

SPUQ Workshop

Sitterson Hall, Room 014 UNC

9:00-10:30 Invited Session:

Oksana Chkrebtii, Ohio State University
“title”

Ying Hung, Rutgers University
“Computer Experiments with Binary Time Series and Applications to Cell Biology: modeling, estimation, and calibration.”

TBD

10:30-11:00 Break

11:00-12:30 Invited Session:

Rebecca Morrison, Massachusetts Institute of Technology
“title”

Matthias Tan, City University of Hong Kong
“Opening up the black box: Gaussian process modeling using information from partial differential equation models.”

Roshan Joseph, Georgia Institute of Technology
“title”

12:30-2:00 Lunch

2:00-3:00 Invited Session:

Simon Cotter, University of Manchester
“title”

Lulu Kang, Illinois Institute of Technology
“title”

3:00-3:30 Break

3:30-4:50

New Researchers Invited Session:

Arindam Fadikar, Virginia Tech University

Michael Grosskopf, Los Alamos National Laboratory

Simon Mak, Georgia Institute of Technology

Denielle Ricciardi, Ohio State University

4:50-5:00

Farewell and Shuttle to Airport