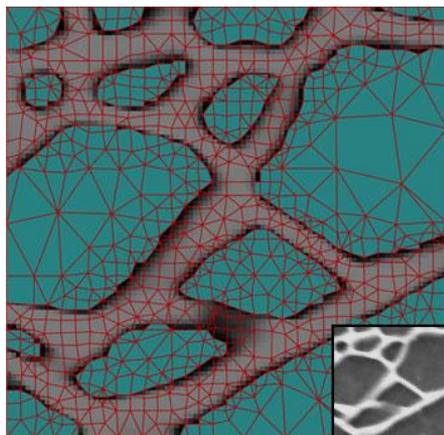*IFIP Working Conference on*

Uncertainty Quantification in Scientific Computing

Boulder, Colorado, USA   **August 1-4, 2011**

ifip International Federation for Information Processing
Working Group 2.5 (Numerical Software)

siam

NIST
National Institute of
Standards and Technology
U.S. Department of Commerce

Context

- ❑ Scientific computing, while still a young field, is becoming mature
- ❑ Can computational models be used for critical decision making?
- ❑ Not without an ability to reliably and quantifiably assess uncertainty in results

Goals

Bring together mathematicians, statisticians, computer scientists, and applications experts to …

- ❑ assess our current ability to quantify uncertainty in modeling and simulation
- ❑ raise awareness of this issue within the numerical software community
- ❑ envision a research agenda to address this critical need

Schedule

- ☐ 5 Keynotes
- ☐ 20 Talks
- ☐ Panel
- ☐ Hot Topics session
- ☐ Lunches
- ☐ Activities

		Sun 7/31/2011	Mon 8/1/2011	Tue 8/2/2011	Wed 8/3/2011	Thu 8/4/2011
7:30						
			Registration			
8:30			Opening			
			Pascual	Goldstein	Kahan	Cox
9:30						
			Cunningham	Hatton	Welch	Possolo
10:15			Break	Break	Break	Break
10:45						
			Pasanisi	Eldred	Challenor	Glimm
11:30						
			Gaffney	Doostan	Smith	Johnson
12:15						
			Lunch	Lunch	Lunch	Lunch
13:15						
			Helton	Ferson		Sandu
14:00					Tour of NIST and NOAA	
			Nychka	Matthies		Heroux
14:45						
			Oberkampf	Break		Muhanna
15:30						
			Break			Break
16:00						
			Panel	Hot Topics		Enright
		Registration			Visit Chautauqua Park	Wrap up
17:30						
18:00			Reception (Hotel Courtyard)		Reception and Banquet (Chatauqua Dining Hall)	
19:30						

Conference Schedule at a Glance

Proceedings

Will appear as a volume in the *IFIP Advances in Information and Communications Technology* series published by Springer

Papers due: October 4, 2011
Estimated publication date: April 2012

Questions & Answers

Q&As after presentations will be captured for publication.
Questioners will be given forms to transcribe their questions.
Please return to discussant before end of conference.
Answers will be captured later.

Hot Topics Session

Tuesday afternoon

Participants invited to make short (10 min) presentations.

- Describe recent research
- Raise issues for future consideration
- Advertise new opportunities
- Introduce their institution

Presenters should contact <u>Brian Ford</u> ASAP, but no later than noon Tuesday.

Activities

Monday

18:00 – 19:30 Reception, Hotel Garden (Fire Pit Area)

Wednesday

13:15   Tour of NIST & NOAA Labs (requires signup by Tue)
16:30   Bus pickup at Hotel for those not on tour
17:00   Walk in Chautauqua Meadows
17:15   Reception, Chautauqua Dining Hall
18:15   Banquet, Chautauqua Dining Hall
20:15   Last bus returns to Hotel

Note: Those on tour will be transported directly from NIST
         to the banquet site.

Credits

Program Committee

Andrew Dienstfrey, *NIST*, US, <u>Chair</u>

Ron Boisvert, *NIST,* US

Maurice Cox, *National Physical Laboratory*, UK

Bo Einarsson, *Linköping University*,* SE

Brian Ford, *NAG Ltd.*,* UK

Mac Hyman, *Tulane University,* US

Tony O'Hagan, *University of Sheffield*, UK

Michael Oberguggenberger, University of Innsbruck, AT

Bill Oberkampf, *Sandia Labs**, US

* retired

Credits

Local Organizers (NIST)

Andrew Dienstfrey

Ron Boisvert

Wendy McBride, Conference Services

Lorna Bushe, Admin Support

Robin Bickel, Admin Support

Jim Burrus, Tours

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