MINUTES OF THE MATHEMATICS AND COMPUTATION DIVISION EXECUTIVE COMMITTEE MEETING AMERICAN NUCLEAR SOCIETY

Albuquerque Convention Center, Albuquerque, NM November 12, 2006

Officers Present:

Bill Martin, University of Michigan, wrm@umich.edu, Chair Tom Sutton, KAPL, sutton@kapl.gov, Vice-Chair Arzu Alpan, Westinghouse, alpanfa@westinghouse.com, Secretary M. Scott McKinley, LLNL, mckinley9@llnl.gov, Treasurer

Executive Committee Present:

Thomas A. Brunner, SNL, tabrunn@sandia.gov
Jean Ragusa, Texas A&M, ragusa@ne.tamu.edu
Robert Singleterry, NASA, robert.c.singleterry@nasa.gov
Avneet Sood, LANL, sooda@lanl.gov
Taro Ueki, Univ. of New Mexico, tueki@unm.edu

Paul Wilson, UW-Madison, wilsonp@engr.wisc.edu

Others Present:

Dmitriy Anistratov, NCSU, anistratov@ncsu.edu Forrest Brown, LANL, fbrown@lanl.gov Mel Buckner, SRS, mel.buckner@srs.gov M. B. (Peggy) Emmett, ORNL, emmettmb@ornl.gov Madeline Feltus, U. S. DOE, madeline.feltus@nuclear.energy.gov Ray Gamino, KAPL, ray.g.gamino@lmco.com Barry Ganapol, University of Arizona, ganapol@cowboy.ame.arizona.edu John Garth, AFRL, jgarth75@comcast.net Ali Haghighat, University of Florida, haghighat@ufl.edu Brian Kiedrowski, University of Wisconsin-Madison, bckiedrowski@wisc.edu Cassiano Oliveira, Georgia Tech, c.oliveira@gatech.edu Todd Palmer, Oregon St. Univ., palmerts@ne.orst.edu Ron Pevey, University of Tennessee-Knoxville, rpevey@utk.edu Anil K. Prinja, University of New Mexico, prinja@unm.edu Tracy Radel, University of Wisconsin-Madison, teuchytil@wisc.edu Rachel Slaybaugh, University of Wisconsin, slaybaugh@wisc.edu Andy Smetana, SRNL, andy.smetana@srnl.doe.gov Jasmina Vujic, UC Berkeley, vujic@nuc.berkeley.edu Aaron Watson, KAPL, aa.watson@verizon.net

1. Call to Order and Introduction

Chair Bill Martin called the meeting to order at 2:15pm and asked the committee members and guests to introduce themselves.

2. Approval of Meeting Minutes

The minutes of the June 4, 2006 meeting held in Reno Hilton Hotel, Reno, NV were approved (Robert Singleterry, Ali Haghighat).

3. Chair's Report- Bill Martin

Bill Martin attended the Professional Divisions Committee meeting. Two highlights of this meeting were the status on bylaws and briefing on the ANS budget.

Cassiano Oliveira raised the issue of expensive registration fees in ANS meetings. Ali Haghighat stated that LCD projector charges are about \$100,000 for every ANS meeting.

4. Vice-Chair's Report- Tom Sutton

Tom Sutton stated that we will not have a roundtable for this ANS Winter Meeting. We will pick up the roundtable as usual in the ANS 2007 Annual Meeting in Boston. Tom Sutton will be sending email to advertise the roundtable.

5. *Chair Ex-Officio's Report*- Alireza Haghighat

a. Election Ballot- Ali Haghighat with assistance from Bill Martin, Bernie Kirk, and Farzad Rahnema identified the 2007-2008 MCD nominees as listed below:

Chair- Thomas Sutton (KAPL)
Vice-Chair- Robert Singleterry (NASA)

Jasmina Vujic (UC Berkeley)

Secretary- Jeff Favorite (LANL)

Imre Pazsit (Chalmers University of Technology, Sweden)

Treasurer- Hatice Akkurt (ORNL)

Scott Mosher (LANL)

Executive Committee- (3 positions)

Ben Forget (INL)

Douglas Peplow (ORNL)

Anil Prinja (UNM)

James Morel (TAMU)

Glenn Sjoden (UF)

Ronaldo Szilard (INL)

b. MCD Survey- 220 responses were received on the survey. A report will be prepared and presented in the next meeting in June 2007 at Boston.

6. *Treasurer's Report*- Scott McKinley

Estimated budget for Calendar Year 2006 and the budget plan for Calendar Year 2007 were distributed (see Attachment 1). A suggestion was made to give \$1000 to the Oregon State University (OSU) for the March 2007 Student Conference that will be held in Corvallis, Oregon. The budget was approved, including the \$1000 of support to the OSU Student Conference.

7. **Program Committee's Report**- Dimitriy Anistratov

There are 7 sessions this meeting, 35 papers. Originally there were 47 papers, but some papers were moved to other division sessions. Among the 7, there are 2 invited sessions that brought a total of 12 papers.

In the Program Committee Meeting, Ray Gamino made a proposal for M&C 2009 (see Attachment 2). Ray Gamino also talked briefly about the proposal in the Executive Committee Meeting. The proposed location and date for M&C 2009 is Saratoga Springs, NY, May 3-7, 2009. The conference would be held in the same hotel as that in the 1997 meeting. The organizing committee is mostly from KAPL and RPI. The Program Committee recommended accepting the proposal. There were no other proposals. A motion was made that we accept the proposal (Robert Singleterry, Ali Haghighat). All was in favor.

Jasmina Vujic reported that 227 papers were submitted to the M&C+SNA 2007 meeting (see Attachment 3). The submission breakdown was read. She added that they have used free software for paper downloads for the meeting; they have invested their time to fix the glitches and would be happy to provide the software.

Full papers for M&C+SNA 2007 are due mid-January. It was decided to have a maximum of 2-3 parallel sessions. There might be 1 poster session. Cassiano Oliveira suggested that priority should be given to students to present, and having 1 author per session.

Jasmina Vujic asked for suggested names for panelists and also suggestions on plenary session names for M&C+SNA 2007. The time allocated would be 1.5 hours for 3 mornings. There would be 2-3 presenters per session.

Dimitriy Anistratov asked for ideas on special sessions for the ANS 2007 Winter meeting.

Tony Elliot, a student from Oregon State University was present in the Executive Committee meeting, advertising the student conference that will be held on March 29-31 2007 in Corvallis, OR. Tony Elliot stated that they were looking for judges

for sessions. The web site for this meeting is http://groups.engr.oregonstate.edu/ans. They will also be having a career fair. A written request will be made asking for donation to this meeting.

8. Standing Committee Reports

a. Students- Sara Pozzi (not present)

17 students were supported in the Presidents Reception.

b. *Honors and Awards-* Farzad Rahnema

Farzad Rahnema is reconstituting the committee.

c. *Membership*- Madeline Feltus

Madeline Feltus stated that there are 1000 members (200 are students). She added that we are a large part of the society.

d. Standards- Andy Smetana

ANSI/ANS 10.5-2006: "Accommodating User Needs in Scientific and Engineering Computer Software Development" is out.

e. Bylaws

A motion was made that we accept the Standard Bylaws as imposed by ANS and we recommend that entire ANS membership should approve & there is a preference that ANS owns the bylaws (Robert Singleterry, Tom Sutton). All was in favor.

f. Benchmark- Barry Ganapol

The Joint Benchmark Committee met on November 12, 2006. There are 2 benchmarks in archive: 1) Reactor Physics and 2) Analytical Benchmarks. There is a web site being developed on benchmarks that will be hosted by the RSICC website.

Having a benchmark award was suggested.

Barry Ganapol asked ANS members who are interested in benchmarks to contact him.

g. Publicity & Newsletter- Avneet Sood

The newsletter is out.

h. ANS Board Liaison- Mel Buckner

As the ANS Board of Directors liaison to MCD, please let Mel Buckner know of any items that MCD would like for the Board to consider.

9. **Web**- Todd Palmer

Newsletter is posted at the web site. Todd Palmer added that anyone who would like to have a posting on the web site should contact him. The web site address is www.mcd.ans.org.

10. Adjournment

The meeting was adjourned at 4:15pm.

Respectfully submitted,

Arzu Alpan, Secretary ANS Mathematics and Computation Division Executive Committee

Estimate for Calendar Year 2006

The current estimate for the rest of 2006:

	CY 2005 Final	2006 (estimate)	Details	
Income	Tillal	(cstimate)		
Carry Forward, Prior Year Member Allocation Other Budget funds	17,991 942 4,061	14,388 1,000 7,500	F F \$1 per person E \$500 for 2006 National Mtg Participation F \$7000 Avignon (Sept 2005) less Stu Sup	
Total Budget Funds	22,994	22,888		
Expenses				
Newsletters	0	0	Newsletters by email only	
Awards, Plaques	1,521	0	No awards	
National Meeting Costs	585	0		
Division Officer Expense	0	0		
Student Support	3,000	2,300	 F \$500 June Reno Student Travel F \$390 June Reno Student Reception Tickets E \$500 Nov. Alb. Student Travel P \$910 Nov. Alb Student Reception Tickets 	
Scholarship/Need Funding	1,000	7,000	F \$7000 Robert A. Daniels Scholarship	
Other Expenses	2,500	0		
Total Expenses	8,606	9,300		
Carry Over, Year End	14,388	13,588		

F Final considered final by ANS Headquarters
 P Pending still pending with ANS Headquarters
 E Estimate estimates for the rest of the year

^{*} Never received a request for \$1000 for April RPI Student Conference.

Budget Plan for Calendar Year 2007

The budget has to be decided by the executive committee and sent to ANS Headquarters by Dec 31, 2006.

Income and expenses are estimated in the following table:

	2007 (estimate)	Details
Income Carry Forward, Prior Year Member Allocation Other Budget funds	\$13,588.00 \$1,000.00 \$0.00	Estimated 1000 members
Total Budget Funds	\$14,588.00	
Expenses Newsletters	\$0.00 \$1.500.00	Emailed
Awards, Plaques	\$1,500.00	\$1000 Pomraning Memorial \$500 Distinguished Service
National Meeting Costs Division Officer Expense	\$1,040.00 \$0.00	2 Meetings
Student Support Scholarship/Need Funding Other Expenses	\$1,000.00 \$0.00 \$0.00	2 x \$500 student travel
Total Expenses	\$3,540.00	
Carry Over, Year End	\$11,048.00	

Dannels Scholarship

Balance 01/01/06	\$52,188
Plus 9 Months Interest	\$2,612
Plus 2006 Receipts	\$7,000
Minus 2006 Disbursements	-\$3,500
Balance 9/30/06	\$58,300

Upcoming Conferences:

2007	April 15-19	M&C + SNA 2007	Monterey, CA
2007	June 24-28	Annual Meeting	Boston, MA
2007	Nov 11-15	Winter Meeting	Washington, DC
2008	June 8-12	Annual Meeting	Anaheim, CA
2008	Nov 9-13	Winter Meeting	Reno, NV

MCD Historical Data

	Calendar Year						9 Month	
	1999	2000	2001	2002	2003	2004	2005	2006 (est)
Income								
Carry Forward, Prior Year	11,914	10,187	15,857	12,040	18,956	28,069	17,991	14,388
Member Allocation	801	817	924	819	885	918	942	1,000
Other Budget funds	0	4,853	660	13,925	10,562	2,654	4,061	0
Total Budget Funds	12,715	15,857	17,441	26,784	30,403	31,641	22,994	15,388
Expenses								
Newsletters	0	0	66	0	8	0		0
Awards, Plaques	881	0	835	0	101	0	1,521	0
National Meeting Costs	0	0	0	225	0	650	585	0
Division Officer Expense	247	0	0	0	0	0	0	0
Student Support	550	0	1,500	3,800	1,225	3,000	3,000	890
Scholarship/Need Funding	100	0	0	1,000	1,000	10,000	1,000	0
Other Expenses	750	0	3,000	2,803	0	0	2,500	0
Total Expenses	2,528	0	5,401	7,828	2,334	13,650	8,606	890
Carry Over, Year End	10,187	15,857	12,040	18,956	28,069	17,991	14,388	14,498

Northeastern New York Section American Nuclear Society

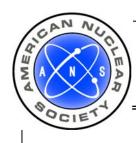
Proposal for the

2009 International Conference on Advances in Mathematics, Computational Methods, and Reactor Physics

Saratoga Springs, NY May 3-7, 2009

Presented to ANS M&C Division Program Committee Mtg By Ray Gamino, General Chair (of organizing committee)

> ANS Winter Mtg, November 12, 2006 Albuquerque, NM



Outline

- General Meeting Information
- Saratoga Springs, NY USA
- Hotel Facilities
- Organizing Committee
- Technical Program Committee
- Co-sponsoring Organizations
- Session Topics
- Special Events
- Meeting Planning Schedule
- ANS Topical Meeting Questionnaire (Attached)



General Meeting Information

Meeting Location → Saratoga Springs, NY USA

Hotel / meeting room facilities → The Saratoga - Hotel & Conference Center

Calendar Placement → May 3-7, 2009

Experienced Organizers – NENY-ANS has hosted 3 different topicals in past 20 years → Technical & Financial Successes!

(M&C + SNA 1997; NURETH-7 1995; Reactor Physics 1986)

- Plus multiple other symposia and meeting support

Strong Local Support A Real Asset!

- → NENY-ANS Section, KAPL, RPI, RPI Student Section
- → Over 20 local section members have already agreed to help!

Committed, Experienced Team!
Attractive Destination!



Saratoga Springs, NY USA

Lake George / Adirondacks

Parks & Mineral Springs

Shopping Downtown

Restaurants

Museums

Golf





National Museum of Racing and Hall of Fame

Saratoga Springs, NY . 518-584-0400 . info@racingmuseum.org

SARATOGA



Saratoga Springs, NY USA

Centrally located near Boston, Montreal, New York City, and New York State Capital

Approximate Drive Time from Saratoga

• Albany: 30 minutes

• New York City: 3 hours

• Boston: 3 ½ hours

Montreal: 3 hours

• Niagara Falls: 5 hours

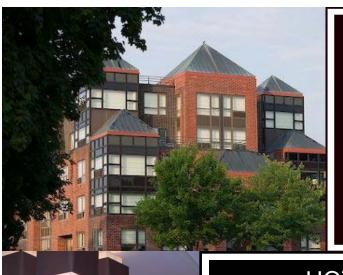




Saratoga Springs, NY USA



~50 Restaurants / Pubs within a few blocks of the hotel!



THE SARATOGA



HOTEL & MEETING FACILITIES

- Located in Downtown Saratoga
- Newly Remodeled Meeting Rooms
- Large Banquet Space
- Special Room Rates for Conference Participants





2009 International Conference Advances in Mathematics, Computational Methods, and Reactor Physics

Organizing Committee

General Chair Ray Gamino

General Co-Chair(s)

Honorary Chair(s)

Don Birks; Yaron Danon; Tom Sutton

Dick Mendelson

Technical Program Chairs Technical Program Co-Chairs

Associate Tech Prog Chairs

Bob Grove; Brian Aviles; Enrico Sartori

Dmitriy Anistratov; Nam Zin Cho; Robert Jacqmin; Todd Palmer

Tim Donovan; Dave Griesheimer; Alison Stolle; Mike Trbovich; Aaron

Watson

Finance Chair

Mark Boehle

Publications Chair

Tom Fieno

Secretary

Molly Ernesti

Registration Chair

Mark Stedry

Hotel & Special Events

Jeff Hoole, Heather Weiss

Publicity Chairs

Mike White

Web Design Chairs

Elsa Jimenez

Student Liaison

Diane Gurdak

Industry Liaisons

Cary Luken, Hiep Hoang

Workshop Chair

Charles Daily



International Technical Program Committee

- Dick Mendelson*
- Marvin Adams
- Jess Gehin
- Ray Gamino*
- Richard Sanchez
- Jeff Densmore
- Tom Sutton*
- Jim Colletti*
- I.K. Abu-Shumays
- Don Birks*
- Bob Grove*

- Mike Zerkle
- Jim Rathkopf
- Tom Fieno*
- Paul Turinsky
- Cecil Lubitz
- Charles Daily*
- Farzad Rahnema*
- Glenn Sjoden
- Dmitriy Anistratov*
- Ben Rouben
- Alison Stolle*

- Bojan Petrovic
- Bill Martin*
- Don Dei
- Samim Anghaie
- Forrest Brown*
- Skip Kahler*
- Ed Larsen*
- Temitope Taiwo*
- Dave Griesheimer*
- Roger Blomquist
- Brian Aviles*

- Ali Haghighat
- Philippe Finck
- Yousry Azmy
- Jasmina Vujic
- Kord Smith
- Nam Zin Cho*
- Tim Donovan*
- Mike Trbovich*
- Aaron Watson*
- Enrico Sartori*

* Agreed to serve if bid is successful.

We will be recruiting many other colleagues to serve on the ITPQ



Co-Sponsoring Organizations

(the following organizations will be asked to co-sponsor if the bid is successful)

- American Nuclear Society
- ANS Mathematics & Computations Division
- OECD / Nuclear Energy Agency
- ANS Reactor Physics Division
- ANS Radiation Protection & Shielding
- Atomic Energy Society of Japan
- British Nuclear Energy Society
- Canadian Nuclear Society
- European Nuclear Society
- French Local Section of ANS
- Kerntechnische Gesellschaft
- Korean Nuclear Society
- Sociedad Nuclear Espanola
- Societe Francaise d'Energie Nucleaire
- Society for Industrial and Applied Mathematics



Preliminary Session Topics

- Deterministic Transport Methods (multiple sessions)
- Monte Carlo Transport Methods (multiple sessions)
- Perturbation and Variational Methods
- Methods & Analysis Application Areas:
 - Reactor Physics
 - Radiation Protection & Shielding
 - Reactor Kinetics & Dynamics
 - Criticality & Safety
 - Computational Fluid Dynamics & Thermal-Hydraulics
 - Computational Materials Science
 - Computational Environmental Science
 - Computational Medical Physics
 - Multi-Physics
 - Advanced Reactor Concepts
 - Accelerators and Subcritical Systems
- Nuclear Data Methods & Analysis
- Codes and Benchmarks (Poster Sessions)



Preliminary Special Session Topics

- Hybrid Deterministic / Monte Carlo Methods
- Optimization Methods
- Optimization of Nuclear Fuel Cycles
- Transport in Stochastic Media
- Challenges in Large-Scale Computations
- Software Engineering Practices for Designing and Building High-Impact Software
- Verification & Validation Practices for High-Impact Software
- Description / Demonstration of Integrated Modeling and Analysis Systems



Special Events (proposed)

Evening Events

- Sunday night Conference Reception
- Monday night Lake George Dinner Cruise
- Tuesday night Conference Banquet, preceded by Wine Tasting & Poster session
- Wednesday night Evening at Harness Track / Racino, preceded by Beer Tasting & Poster Session

Spouse / Daytime Events

- Golf outing (Sunday)
- Saratoga drive/walk/shopping tour (Monday)
- Lake George Prospect Mtn, lunch / village tour, Fort William Henry (Tuesday)
- Manchester Vt Hildene Museum, lunch / shopping, Norman Rockwell Museum (Wednesday)
- New York State Museum in Albany (Thursday am)



Planning Schedule for May, 2009 M&C Topical Meeting – Part 1

Milestone	Date
Form Local Organizing Committee	10/06
Select Location	10/06
Submit bid to MCD Program Committee @ Albuquerque 11/06 ANS Mtg	11/12/06
Draft and Approve (including ANS Hdqtrs Approval) Hotel Contract	12/06
Finalize Committee Chair Persons	12/06
Request Calendar Placement from MCD, NPC Screening Subcommittee	11/06 or 2/07
Finalize Technical Program Committee	3/07
Contact Co-sponsoring Organizations	4/07
Finalize Meeting Topics	4/07
Review Meeting Guidelines with Committee Chairs	4/07
Prepare Letterhead	4/07
Submit Publication Plan to Mgr of Scientific Publications	4/07
Review Progress with MCD / RPD	6/07
Obtain Approval of Preliminary Publication Plan form Meetings	6/07
Proceedings Transactions Committee (MPTC)	



Planning Schedule for May, 2009 M&C Topical Meeting – Part 2

Milestone	Date
Establish Fees for Registration and Other Activities, Deadline for Advanced	10/07
Registration	
Submit Preliminary Budget to Director of Meetings and Exhibits	10/07
Review Progress with MCD / RPD	11/07
Obtain Preliminary Approval from NPC	11/07
Obtain Final Approval of Publication Plan from MPTC	11/07
Meet with Technical Program Committee	11/07
Develop a Fund Raising Plan and Initiate Contacts	12/07
Design & Print Brochure	1/08
Issue Call for Papers in Nuclear News	2/08
Send Direct Mailing of Call to Target Population	2/08
Appoint Session Organizers	2/08
Invite Banquet Speakers and Plenary Speakers	4/08
Submit Final Budget to Director of Meetings and Exhibits	5/08
Obtain Final Approval by NPC and ANS President	6/08
Send Formal Invitation to Invited Speakers (Technical Papers)	6/08
Submit Material to Nuclear News for Meeting Notice in January Issue	7/08



Planning Schedule for May, 2009 M&C Topical Meeting – Part 3

Select Two Co-Chairs for Each Session	8/08
Deadline for Full Papers	9/08
Review Papers	9/08-10/08
Review Progress with MCD	11/08
Meet With Technical Program Committee	11/08
Print Tickets, Registration Forms, Badges	12/08
Finalize Meeting Arrangements with Hotel	12/08
Send Out Final Publicity Mailing	12/08
Deadline for Final Papers / Final Review	12/08
Send Electronic Versions of Final Papers to Publisher of Proceedings	1/09
Set KAPL Policy on Attendance & Registration Fees	1/09
Send Copies of Papers to Session Chairmen	2/09
Screen for Best Student Paper	3/09
Publish Final Program, Have Posters Made, Etc.	3/09
Topical Meeting, Complete Best Student Paper Review	5/09
Send Thank You Letters	5/09
Send List of Attendees to ANS Director of Meetings & Exhibits	6/09
Send Final Financial Report to ANS Director of Meetings & Exhibits	6/09
Send Final Meeting Report to ANS Director of Meetings & Exhibits	6/09

From: "Prof. Jasmina Vujic" <vujic@newton.berkeley.edu>

Date: November 11, 2006 7:00:06 PM PST **To:** "Martin, William" <wrm@umich.edu> **Cc:** Jasmina Vujic <vujic@newton.berkeley.edu>

Subject: Re: Agenda for M&C Executive Committee Meeting

Bill.

My flight is coming at 1:30 pm. Thus, I will be able to come to the Ex Com but not to the Program Committee.

Here is the report for the final abstract tally for M&C+SNA2007:

The referee'ing process has began for the M&C+SNA'07 meeting, with a goal of completion by the end of November/beginning of December for author notification during the first/second week of December. We received a total of 227 submitted abstracts, and I anticipate that we may still add a few papers to accommodate invited and plenary speakers.

The submission breakdown is as follows:

Computational Biomedical Applications 11
Computational Materials Science 26

Computational Methods using High Performance Computers 30 Computational Nuclear Fuel Cycle/Repository Performance 4

Computational Plasma Physics/Fusion

Computational Reactor Physics and Particle Transport 86

Computational Science 3

Computational Thermalhydraulics 8
Nuclear Reactor Analysis 38
Special Sessions 18

Best regards,

Jasmina

Jasmina Vujic, Professor and Chair 4153 Etcheverry Hall

Jasmina Vujic, Professor and Chair Department of Nuclear Engineering vuiic@nuc.berkeley.edu

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Phone: (510) 642-4077, FAX: (510) 643-9685