

**MINUTES OF THE MATHEMATICS AND COMPUTATION DIVISION
EXECUTIVE COMMITTEE MEETING
AMERICAN NUCLEAR SOCIETY
Disneyland Hotel, Anaheim, CA
June 8, 2008**

Officers Present:

Tom Sutton, KAPL, sutton@kapl.gov, Chair
Jasmina Vujic, UC-Berkeley, vujic@nuc.berkeley.edu, Vice-Chair
Jeffrey A. Favorite, LANL, fave@lanl.gov, Secretary

Executive Committee Present:

Tom Brunner, SNL, tabrunn@sandia.gov
Richard Sanchez, CEA, Richard.sanchez@cea.fr
Taro Ueki, UNM, tueki@unm.edu

Others Present:

Ray Gamino, KAPL, ray.g.gamino@lmco.com
Bill Martin, U. Michigan, wrm@umich.edu
Barry Ganapol, U. Arizona, ganapol@cowboy.ame.arizona.edu
Dmitriy Anistratov, NCSU, anistratov@ncsu.edu
Todd Urbatsch, LANL, tmonster@lanl.gov
Avneet Sood, LANL, sooda@lanl.gov
Rachel Slaybaugh, UW-Madison, slaybaugh@wisc.edu
Hatice Akkurt, ORNL, akkurth@ornl.gov
Ryan McClarren, LANL, ryanmc@lanl.gov
Todd Palmer, Oregon State U., palmerts@ne.orst.edu
Farzad Rahnema, Georgia Tech, farzad@gatech.edu
Andy Smetana, SRNL, andy.smetana@srnl.doe.gov
Cassiano de Oliveira, UNM, cassiano@unm.edu
Paul Hulse, Sellafield, paul.hulse@sellafieldsites.com
Robert Singleterry, NASA, robert.c.singleterry@nasa.gov
Glenn Sjoden, U. Florida, sjoden@ufl.edu
Brian Nease, UNM, bnease@gmail.com
Madeline Feltus, DOE, Madeline.feltus@hq.doe.gov
Anil Prinja, UNM, prinja@unm.edu
Forrest Brown, LANL, fbrown@lanl.gov

1. Call to Order and Consideration of Agenda

Chair Tom Sutton called the meeting to order at 2:05pm and distributed the agenda.

2. Student Conferences

Two students from Texas A&M, which hosted the 2008 Student Conference, visited the Committee to thank us for our support and report on the conference. They used our donation for best paper awards. The M&C sessions were popular. 375 students attended as well as 175 professionals representing 40 companies, 30 of which were at the career fair. On-site job offers were reported. 16 universities were at the university fair. There were 154 student presentations and 16 posters.

Two students from the University of Florida visited the Committee to ask for money (\$2000) as well as M&C participation at the next student conference, to be held April 1-5, 2009, at U. Florida. They want to motivate students to get involved in ANS. They want M&C members as judges. They want an M&C member to give a little talk about the Division. Action item: The Committee did not act on this request; a vote should be taken at the next meeting.

3. Approval of Previous Meeting Minutes – Jeff Favorite

The minutes of the November 11, 2007 meeting held at the Omni Shoreham Hotel in Washington, DC, were distributed and approved unanimously (various firsts and seconds).

4. Report on Professional Division Committee Meeting – Tom Sutton

Tom Sutton attended the Professional Divisions Committee Meeting. The main topics covered were:

- a. ANS wants to revitalize utility involvement with the Society (note by JAF: this was also on the November PDC agenda).
- b. ANS wants to increase advocacy but stay non-profit.
- c. ANS wants to engage both presidential campaigns.

5. Adoption of Division Rules – Tom Sutton

In times past, each ANS Division had its own by-laws. A few years ago, ANS decided that each Division should have the same by-laws except for the Division's name and its goals. The different needs of each Division were to be incorporated in a set of specific Division rules. It isn't clear why this format, requiring different rules for the Divisions, is better than the previous one in which Divisions had different by-laws, but that was not the topic under discussion. Tom made a first draft of a set of rules for M&C. He took the old by-laws, compared with the new standard by-laws, and made anything extra a "rule." There were three exceptions: 1) He reserved a slot for a non-US member on the M&C Executive Committee; 2) He changed the terms of Treasurer and Secretary from one year to two years (note by JAF: this was discussed at the last meeting); 3) He formalized the rotation for Program Committee Chair that the Division has been using. Barry Ganapol suggested some changes regarding the Benchmark Committee and Andy Smetana noticed a typo. Tom has an action item to modify the rules that he has drafted and send them to the Committee for an email vote. Bill Martin volunteered to help.

6. Vice-Chair's Report – Jasmina Vujic

Jasmina lined up three speakers for the round-table. The round-table will be Monday, 2:30-4pm.

7. Treasurer's Report – Todd Urbatsch for Scott Mosher

The Treasurer's report is attached. In 2007, income from topical meetings was larger than expected and there was a change in the National Meeting cost model. Student support was more than double what was budgeted, partly because the 2008 Student Conference expenditure (donation) was made in 2007. ANS has fully endowed all scholarships so we don't need to send money to the Dannels scholarship fund (Tom Sutton will clarify with ANS what happens if we send money to a fully endowed scholarship). Rachel Slaybaugh said that she is on an ANS committee that is looking at President's Reception tickets for students. The bottom line in 2007 was a net gain of \$13,239, which was almost all from M&C+SNA'07, PHYSOR'06, and 2007 National Meeting participation. The Committee took no action on 2008 budget items (with the exception noted in item 9 below).

8. Program Committee's Report – Dmitriy Anistratov and Todd Urbatsch

There were 31 papers submitted to M&C sessions for the 2008 Summer Meeting; 24 finally appeared. There is one special session. There were 33 reviewers. The Reno meeting (Nov. 2008) has no special session yet; it is not too late to suggest one. ANS has noticed that special sessions are better attended and has suggested forming special sessions out of regular submissions.

Ray Gamino reported on the M&C 2009 conference to be held in Saratoga Springs, New York. A status report is attached. The Technical Program Committee for the meeting will meet Monday, June 9. Ray encouraged the Committee to write papers. The M&C 2009 committee is raising money, mostly to support students. He requested \$2000 from M&C for student paper awards. Tom Brunner made a motion, it was seconded by Richard Sanchez, and the motion passed unanimously.

Dmitriy reported on M&C 2011. There was interest in hosting the meeting from Shanghai, the UK, Spain, and Rio de Janeiro. In the preceding meeting, the M&C Program Committee had voted to recommend that the Executive Committee accept the proposal from Rio de Janeiro. Tom B. made a motion to accept the proposal and Jasmina seconded it; it passed unanimously.

Todd Urbatsch, the new Program Committee Chair, discussed the Fast Track procedure for getting conference papers to journals. As explained at previous meetings, the concept was disturbing to both the Program Committee and the Executive Committee (in fairness, there is a lot of membership overlap). Todd suggested ceasing M&C's involvement in Fast Track, replacing it with one of the following: 1) Nothing; 2) Agitate for faster turn-around of regular journal submissions; 3) A special "Best of MCD" edition of a journal after each meeting; or 4) A "best summary" award for the best summary and/or presentation.

There was some discussion of why the Fast Track process was instituted at all. One suggestion was that it was designed to boost meeting attendance and participation. Todd Palmer is still waiting for a second review for a Fast Track paper chosen for this meeting.

Tom Sutton pointed out that the Executive Committee never voted to join in Fast Track so we probably didn't need to vote to get out. Bill Martin noted that there didn't seem to be a lot of support for Fast Track in the Committee.

9. *Nominating Committee's Report* – Bill Martin

The 2008 MCD ballot with successful candidates highlighted is attached.

10. *Standing Committee Reports*

a. *Students* – Tom Sutton on behalf of Sara Pozzi

MCD provided tickets to the President's Reception to MCD students who presented papers. The unused ticket transfer went well.

b. *Membership* – Madeline Feltus

MCD has 1123 members. There were 136 unpaid as of April. Madeline reminded us that we only get credit for paid members. Student membership dropped by 7. We are 10% of ANS membership. We should attract students to topical meetings.

c. *Standards* – Andy Smetana

Andy's report was in the June newsletter. There is a meeting for the ANS 10 standard on Thursday at 7am. ANS 10.4, verification and validation for non-safety-related software, is about to be approved. As always, Andy solicits ideas for new topics.

d. *Joint Benchmark* – Barry Ganapol

Barry attended the 15th meeting of the Joint Benchmark Committee, and it was only the second with a quorum. That's a concern. All of the M&C members were there; M&C is one of the most supportive Divisions. Yousry Azmy discussed a three-dimensional benchmark that will be discussed at PHYSOR'08 and reported in a special session at some point. Barry's book will be out at the end of summer. Bernie discussed a three-dimensional medical physics benchmark. The Committee is looking for a Vision. They need more members, and maybe they need to change the rules on approving benchmarks. Barry said that doing a benchmark is like reviewing a journal article in the effort required.

e. *Journal* – Farzad Rahnema

(Note by JAF: The Journal Committee was not on the agenda. The Secretary is unsure if this item is appearing in the right place.) Farzad attended a meeting of the ANS Journal

Committee. MCD has requested the scanning of old journals, *Fusion Science and Technology*, *Nuclear Technology*, and of course *Nuclear Science and Engineering*. ANS says that will cost \$300K. The ANS Publication Committee will be the ones to approve it. Among the options is for the Divisions to help pay. Farzad recommended that M&C offer \$5000 towards the effort as a show of interest and encouragement. Forrest Brown said that it's ridiculous and makes us look bad that old NSEs aren't already available electronically. Richard asked if we would get access and Farzad said that wasn't discussed. Bill said that last year's cost estimate was only \$75K. MCD has already written a letter supporting this. Forrest noted a sense in the Executive Committee that it's ANS's responsibility to get this done and suggested we write another letter with very strong wording that it is their responsibility. Tom B. made a motion, Tom S. seconded it, and now Forrest has an action item to draft the letter.

f. ***Computational Medical Physics Working Group*** – ? (note by JAF: Sorry!)

M&C is working on making the CMPWG meetings Class 4. They have 50-100 attendees. The next meeting is October 2009. Robert Singleterry suggested that Class 4 meetings might only need six months lead time.

g. ***Publicity*** – Avneet Sood

Some received the paper newsletter before leaving for Anaheim, some didn't. It's a bit frustrating since there is a lot of meeting advertisement in the newsletter. Still, the email copy was delivered. Todd Palmer has updated the M&C web site. Farzad is updating the CMPWG site.

11. ***Old Business***

There had been rumors that the Division was supposed to get some amount of money from ANS for each paper (beyond some threshold) presented at a topical meeting, up to \$60/paper (item 4d from the November 2007 minutes). Tom Sutton found that the Division has been getting this money all along. It has even appeared on the Treasurer's Report.

12. ***New Business***

Forrest reported to the Executive Committee that he and two other M&C members have serious concerns about the ANS Honors and Awards Committee's procedures for choosing new Fellows. Forrest is going to give the ANS Honors and Awards Committee some suggestions. At some point, the M&C Honors and Awards Committee should get involved.

13. ***Next Meeting***

The next meeting of the MCD Executive Committee will be 2pm November 9, 2008, in Reno, Nevada.

14. *Adjournment*

The meeting was adjourned at 4:16pm.

Respectfully submitted,

Jeffrey A. Favorite, Ph.D., Secretary
ANS Mathematics and Computation Division

Calendar Year 2007 – Final Financial Statement

	Approved Nov 2006	2007 (final)	Details
Income			
Carry Forward, Prior Year	13,588	13,646	
Member Allocation	1,000	1,068	\$1 per MCD member
Other Budget Funds	0	13,689	\$6722 for M&C+SNA07 \$5977 for PHYSOR-2006 (profit sharing) \$990 for 2007 National Mtg Participation
Total Budget Funds	14,588	28,403	
Expenses			
Newsletters	0	0	Newsletters by e-mail only
Awards, Plaques	1,500	0	
National Meeting Costs	1,040	0	
Division Officer Expense	0	0	
Student Support	2,000	5,116	\$1000 ANS Student Conference 2007 \$1400 Jun. Boston Reception Student Ticke \$500 Jun. Boston Student Travel Support \$1500 2008 ANS Student Conf. Texas A&M \$216 Nov. D.C. Reception Student Tickets \$500 Nov. D.C. Student Travel Support
Scholarship/Need Funding	0	0	
Other Expenses	0	0	
Total Expenses	4,540	5,116	
Carry Over, Year End	10,048	23,287	

Estimate for Calendar Year 2008

The budget for calendar year 2008 was approved by the executive committee on November 11, 2007 at the Winter Meeting in Washington, D.C. and sent to ANS Headquarters. The current estimate for 2008:

	Approved Nov 2007	2008 (estimate)	Details
Income			
Carry Forward, Prior Year	22,213	23,287	F
Member Allocation	1,068	2,186	F \$2 per MCD member
Other Budget Funds	600	600	E \$600 for 2008 National Mtg Participation
Total Budget Funds	23,881	26,073	
Expenses			
Newsletters	0	0	E Newsletters by e-mail only
Awards, Plaques	1,500	1,500	E \$1000 Pomraning Memorial E \$500 Distinguished Service
National Meeting Costs	0	0	E
Division Officer Expense	0	0	E
Student Support	5,300	3,360	P \$500 Student Travel for Annual Meeting P \$960 Reception Tickets for Annual Meeting E \$500 Student Travel for Winter Meeting E \$1400 Reception Tickets for Annual Meeting
Scholarship/Need Funding	1,000	1,000	E Dannels Scholarship
Other Expenses	0	0	E
Total Expenses	7,800	5,860	
Carry Over, Year End	16,081	20,213	

The ANS division member allocation increased from \$1 to \$2 per member in 2008.

The disbursement for student tickets to the President's Reception at the current meeting (\$960) is likely to change due to the new practice of transferring unused tickets from full meeting registrants to students.

The funds approved for the 2008 ANS Student Conference at Texas A&M (\$1500) were disbursed in November and appear on the CY2007 financial statement.

ANS Scholarships are now fully endowed by the Board of Directors. The \$1000 allocated to the Dannels Scholarship (which has not yet been transferred) may not be necessary.

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

Dannels Scholarship

Balance 01/01/08	\$59,155
Plus 3 Months Interest	\$776
Plus 2008 Receipts	\$0
Minus 2008 Disbursements	\$0
Balance 3/31/08	<u>\$59,931</u>

Upcoming Conferences

2008	Sept 14-19	PHYSOR'08	Interlaken, Switzerland
2008	Nov 9-13	Winter Meeting	Reno, NV
2009	May 3-7	M&C 2009	Saratoga Springs, NY
2009	June 14-18	Annual Meeting	Atlanta, GA
2009	Nov 15-19	Winter Meeting	Washington, D.C.

MCD Historical Data

	Calendar Year							3 Month
	2001	2002	2003	2004	2005	2006	2007	2008
Income								
Carry Forward, Prior Year	15,857	12,040	18,956	28,069	17,991	14,388	13,646	23,287
Member Allocation	924	819	885	918	942	1,000	1,068	2,186
Other Budget Funds	660	13,925	10,562	2,654	4,061	7,600	13,689	0
Total Budget Funds	17,441	26,784	30,403	31,641	22,994	22,988	28,403	25,473
Expenses								
Newsletters	66	0	8	0	0	42	0	0
Awards, Plaques	835	0	101	0	1,521	0	0	0
National Meeting Costs	0	225	0	650	585	0	0	0
Division Officer Expense	0	0	0	0	0	0	0	0
Student Support	1,500	3,800	1,225	3,000	3,000	2,300	5,116	0
Scholarship/Need Funding	0	1,000	1,000	10,000	1,000	7,000	0	0
Other Expenses	3,000	2,803	0	0	2,500	0	0	0
Total Expenses	5,401	7,828	2,334	13,650	8,606	9,342	5,116	0
Carry Over, Year End	12,040	18,956	28,069	17,991	14,388	13,646	23,287	
Excess Funds over Expenses								25,473



2009 International Conference on Mathematics, Computational Methods & Reactor Physics

June 2008 Status Report (Anaheim ANS Meeting)

- 1) Actions at Anaheim Meeting
 - Obtain Final Approval from National Program Committee
 - Meet with Technical Program Committee Monday 06/09, Magic Kingdom Ballroom 1, 1:30pm (just before M&C roundtable)
- 2) Technical Program
 - ~100 members on TPC; see website
 - 14 special sessions; 16 regular sessions
 - Targeting ~225 papers; tentatively 4 parallel sessions; 2 poster sessions
 - Deadline for 1500 Word Summaries – **9/30/08 (Now is the time!)**
- 3) Finance
 - Final Budget Sent To ANS Director of Meetings
- 4) Publications
 - Proceedings on CD; Abstract Booklet similar to PHYSOR06, M&C '07, etc.
- 5) Publicity
 - Target key divisions (MCD, RPD, RPSD) via e-mails & newsletters
 - Flyers; Ad in Nuclear News
- 6) Hotel & Special Events
 - Contract signed – The Saratoga Hilton
 - Developing event schedule
- 7) Web Site (via ANS Meetings page, or link below)
 - http://local.ans.org/ne-ny/topical_2009_neny.html
- 8) Industry Support
 - Knolls Atomic Power Laboratory will be major sponsor; contacting other laboratories, private industry, etc.
- 9) Tutorials
 - Sunday and Thursday pm tutorials planned; emphasis on codes



American Nuclear Society
2008 Ballot

Mathematics & Computation Division - 12

Date of Distribution: February 25, 2008

Date of Close of Voting: April 8, 2008

To record your vote, make an "X" on the line next to the candidate of your choice.

Chair

Jasmina L. Vujic was elected Vice Chair in 2007 and assumes the position of Chair in June 2008.

Vice Chair (Vote for 1)

01 _____ **Todd S. Palmer** **Elected**
02 _____ Paul P. Wilson
03 _____
Write-in candidate

Secretary (Vote for 1)

04 _____ **Hatice Akkurt**
05 _____ Benoit Forget
06 _____
Write-in candidate

Treasurer (Vote for 1)

07 _____ **F. Arzu Alpan**
08 _____ Robert C. Singleterry, Jr.
09 _____
Write-in candidate

Executive Committee (Vote for 4) - Terms ending 2011

10 _____ **Kevin T. Clarno**
11 _____ Thomas M. Evans
12 _____ Madeline A. Feltus
13 _____ **Imre Pazsit**
14 _____ Douglas E. Peplow
15 _____ **Jeremy E. Sweezy**
16 _____ Ronaldo H. Szilard
17 _____ **Aaron M. Watson**
18 _____
Write-in candidate

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