

## M&C EXECUTIVE COMMITTEE MINUTES

Compiled by A. M. Ougouag

### Meeting Location and Time

The Mathematics and Computations (M&C) Division Executive Committee met at the American Nuclear Society (ANS) Winter Annual Meeting held in Reno, NV at the Reno Hilton Hotel between Sunday, November 11 and Thursday, November 15.

The Executive Committee meeting took place from 2:05 to 4:00 p.m. in room N7 {E at the Midwest Convention Center. The scheduled meeting time was 2:00 to 4:00 p.m., but it started late due to an overrun by the M&C Program Committee Meeting.

### Attendees

The following people signed the attendance roster at the Executive Committee Meeting:

Attendee	Affiliation	Phone Number	e-mail Address
Scott Palmtag	Studsvik	208-522-1060	palmtag@soa.com
Richard Sanchez	CEA Saclay	+33 1 69085404	richard.sanchez@cea.fr
Andy Smetana	WSRC	803 725 4192	andy.smetana@srs.gov
Alireza Haghighat	Univ. of Florida	352 392 1401	haghighat@ufl.edu
Robert Singleterry	NASA LaRC	757 864 1437	r.c.singleterry@larc.nasa.gov
Roger Blomquist	ANL	630 252 8423	rnblomquist@anl.gov
Farzad Rahnema	Georgia Tech	404 894 3731	farzad.rahnema@me.gatech.edu
Paul Turinsky	NC State Univ	919 515 5098	turinsky@ncsu.edu
Bernadette L. Kirk	ORNL	865 574 6176	kirkbl@ornl.gov
Madeline A. Feltus	US DOE	301 903 2308	madeline.feltus@hq.doe.gov
Andy Wehrenberg	NFSC	205 992 6768	jawehren@southernco.com
Forrest Brown	LANL	505 667 7581	fbrown@lanl.gov
Steve Nolen	LANL	505 667 7267	drnuke@lanl.gov
I. K. Abu-Shumays	Bettis	412 476 8469	abushuma@bettis.gov
Abderrafi M. Ougouag	INEEL	208-526-7659	oom@inel.gov

### Agenda

The M&C Executive Committee meeting agenda was submitted by Forrest Brown by e-mail prior to the meeting. He also distributed copies at the meeting. The agenda was as follows:

Executive Committee Meeting  
Mathematics and Computations Division  
American Nuclear Society  
Sunday, November 11, 2001  
2 - 4 pm - Room N-7, Reno Hilton

1. Announcements - Forrest Brown
2. Secretary's Report - Abderrafi Ougouag
  - Approval of minutes from Milwaukee meeting
3. Nominating Committee - Andy Smetana
  - (nominees approved by email)

4. Publicity/Newsletter - Todd Palmer
5. Membership - Madeline Feltus
6. Honors and Awards - Paul Turinsky
7. Topical Meetings:
  - 2001 Report - Scott Palmtag
  - 2003 Status - Bernadette Kirk
8. Standards - A Smetana
  - Nuclear Facilities Standards Committee, Andy Wehrenberg  
3:00 - 3:15 presentation/discussion
9. Program Committee Report - Ali Haghghat
  - Paper review discussion, revisit comments (visible or not?)
10. Treasurer's Report - Steve Nolen
  - student travel support
  - sharing M&C2001 profits with RPD
  - 2001 budget discussion & approval
11. Old Business
  - Status of action items from Milwaukee meeting
13. New Business

Note:

- \* Benchmark Meeting - Sunday, 11/11, 11-1, Rm N-1
- Joint meeting - RPD, RPSD, MCD
- \* Program Committee - Sunday, 11/11, 1-2, Rm N-7

### **Minutes**

The meeting was opened at 2:05 p.m. by Forrest Brown, the M&C Chair. The meeting started 5 minutes late because a previous meeting was still using the room. The chronological minutes from the meeting follows.

#### **1. Announcements:** (Forrest Brown)

Student delegates from the group preparing the Student Conference planned for April 10-14 in Penn State University made a brief presentation and asked for financial sponsorship.

Announcements were also made by various attendees about the Allan Henry reception (Monday in room 1014), the University of Michigan hospitality suite (Tuesday 5:30-7:00), the sushi sub-committee (Tuesday 6:30), and the EBR-I 50<sup>th</sup> anniversary reception (Monday, Silver State Pavilion).

#### **2. Secretary's Report:** (Abderrafi Ougouag)

The minutes from the last M&C Executive Committee (Milwaukee, prepared by the previous secretary, T. M. Evans) were presented by the current secretary and were approved unanimously.

#### **3. Nominating Committee:** (Andy Smetana)

The nominating committee minutes were approved unanimously (11/0/0). The nominations

Vice-Chair	Roger Blomquist	<a href="mailto:RNBlomquist@anl.gov">RNBlomquist@anl.gov</a>
Treasurer	Glenn Sjoden	<a href="mailto:joedean@sprintmail.com">joedean@sprintmail.com</a>
Secretary	Piero Ravetto	<a href="mailto:ravettop@libero.it">ravettop@libero.it</a>

Executive Committee:

Cassiano R. E. de Oliveira	<a href="mailto:c.oliveira@ic.ac.uk">c.oliveira@ic.ac.uk</a>
Roger Webb	<a href="mailto:rogier.webb@srs.gov">rogier.webb@srs.gov</a>
Tom Sutton	<a href="mailto:sutton@kapl.gov">sutton@kapl.gov</a>
Madeline Anne Feltus	<a href="mailto:Madeline.Feltus@hq.doe.gov">Madeline.Feltus@hq.doe.gov</a>
Kevin Schwinkendorf	<a href="mailto:kevin.schwinkendorf@fluor.com">kevin.schwinkendorf@fluor.com</a>

were previously approved by e-mail.

The nominating committee was comprised of Andy Smetana (Chair), Bill Martin, Richard Sanchez, Jim Rathkopf, Elmer Lewis, and IK Abu-Shumays. The executive committee acknowledges the contributions of the nominating committee and thanks the nominees for accepting to serve.

**4. Publicity/Newsletter:** (F. Brown for Todd Palmer)

The newsletter of the division was mailed the week prior to the conference (and hence the week prior to this meeting). Per F. Brown, Todd Palmer did a great job preparing the newsletter.

**5. Membership:** (F. Brown for Madeline Feltus)

Madeline Feltus was not present. The membership report was already in the just-issued newsletter. The Division remains steady at about 900 (actually 907 members, slightly up from 836 in the previous report). The current membership is about the same in numbers as that of 1997. Paul Turinsky suggested that prompting should be done to induce potential division members to join or re-join.

**Action item:** Forrest to contact Madeline to encourage her to contact those who recently dropped out of the division and encourage them to re-join.

**6. Honors and Awards:** (Paul Turinsky)

Prof Turinsky reported that Prof. E. E. Lewis received the Distinguished Service Award. He also announced that Prof. Marv Adams will be inducted as an ANS fellow.

Some members in attendance suggested that the Division consider nominating Dr. Y. Y. Azmy for the rank of ANS fellow. A brief discussion followed in which many present concurred and in which it was suggested that the Honors and Awards committee should look at the Division membership for the specific purpose of actively identifying Division members suitable for nomination to various ANS honors.

Pomraning Endowment: Bill Martin is to continue working on raising the necessary funds.

**Action Item:** Bill Martin is to continue seeking to prompt a major gift from SAIC in support of the Pomraning Endowment. If the efforts ultimately do not work, Paul Turinsky would talk to the ANS President, Gail Marcus, regarding making progress on the Endowment an ANS matter.

Support to student authors at ANS annual meetings (follow up): The proposal to grant each M&C student author the sum of \$50 to support their travel to ANS meetings was tabled. Instead, Paul Turinsky suggested that the Division should offer a ticket to the president's reception to students that have papers in M&C sponsored sessions. The modalities of application of this recommendation are:

1. The M&C Program Chairperson identifies students who have papers at the conference and emails the list to the Division Chair.

2. The Division Chair then figures out how to forward tickets to the President's reception to the students in a timely fashion.

Pomraning Award: it was suggested that the Pomraning Award be made into an honorific plaque only, with any money that may be raised turned over to a scholarship fund. No decision was reached regarding this suggestion.

## **7. Topical Meetings:**

Topical Meetings Report: the reports regarding progress on the preparation of future topical meetings figure prominently in the minutes of the program committee meeting. The relevant reports are included here by reference. It was reiterated that topical meetings affect the Division's budget.

**2001 Topical Meeting:** Enrico Sartori sent to Forrest B. Brown (M&C Division Chair) and Kathryn A. McCarthy (Chair, Idaho Section of ANS) a letter about the conduct of the M&C topical meeting in Salt Lake City. The highly congratulatory letter strongly praised the organizers of the meeting (specifically naming Dr. Jeffrey Borkowski) for the truly international nature of the gathering and for the successful cooperation between all parties involved. Dr. Sartori acknowledged the support Dr. Borkowski gave to the organization of an OECD/NEA meeting on 3-D Deterministic Radiation Transport Benchmarks in connection with the topical meeting. The letter is attached. The committee members made a point to add their voices to that of Dr. Sartori in congratulating Jeff Borkowski and Scott Palmtag for an extremely well done job and to thank Studsvik-Scandpower and the Idaho Section of ANS for their support.

The meeting received 125 papers. Of these 105 were accepted and included in the proceedings. International participation was strong, with 65 papers submitted. Of the accepted papers, 96 were presented. A number of papers could not be presented because of travel restrictions following the September 11 attacks in New York, Pennsylvania and Washington D.C.. There were 135 paid attendees, including 19 students. Student participation was subsidized with \$1000 from this division. The best student paper award was conferred upon the paper "A 2-D 2-Group Neutron Noise Simulator and Its Application to Anomaly Localization," by C. Demazière and I. Pazsit of Chalmers University of Technology, Goteborg, Sweden. At the Topical Meeting, Prof. E. Lewis of Northwestern University received the Mathematics & Computation Distinguished Service Award.

2001 Topical Meeting Budget Consideration: the question was raised as to whether RPD should be offered a share of M&C profits from this latest topical meeting. In recent past, the PHYSOR 2000 conference gave 5% of its net total profits to the M&C division and 15% to RPD (that is 25% of the profits share that would have normally been assigned to RPD were in fact given to M&C). It was suggested and approved by consensus that the M&C division should reciprocate by giving 25% of the division share of the recent net profits to RPD. The net division share of the proceeds from the topical is tentatively estimated at \$11,159. A final figure should be available by the time these minutes are due for approval.

**Action Item:** M&C Chair will talk to RPD to see if this could be changed into a permanent arrangement.

**2003 Topical Meeting:** (Bernadette Kirk) the status of the organization of the 2003 M&C Topical meeting was presented in detail at the M&C Program Committee meeting. Bernadette Kirk reiterated for the main lines and issues at the M&C executive committee meeting. The call for papers has been issued. A special plenary session, A Century in Review, on the historical development and current status of computational methods of reactor physics is planned. The distinguished speakers, all invited, have already committed themselves to participate. These are Ed Larsen and Jim Morel (transport methods of the first order), Elmer Lewis (transport methods of the second order), Jerry Spanier (Monte Carlo), Kord Smith (reactor core methods), Dick Hwang (cross sections), Jack Dorning (reactor kinetics and dynamics), Dan Cacuci (sensitivity, uncertainty, and perturbation theory), and Elliott Whitesides (criticality safety methods). In addition, members are invited to organize special sessions. So far at least one special session on the physics methods of high-temperature reactor is planned.

**8. Standards:** (Andy O. Smetana) the ANS-10 committee has two standards that require maintenance:

- 1) ANS-10.5-1994, Accommodating User Needs in Computer Program Development
- 2) ANS-10.3-1995, Documentation of Computer Software.

These standards have been granted extensions through 2002 and 2003, respectively. Andy Smetana indicated that volunteers are needed to work on these (and other) standards. He asked that he be contacted ([andy.smetana@srs.gov](mailto:andy.smetana@srs.gov)) by all those interested in helping. Work on individual standards is done almost exclusively using email or by telephone, so no travel expenses are required.

Following the call by Andy Smetana, Andy Wehrenberg of the Nuclear Facilities Standards Committee (NFSC) made an appeal for volunteers to participate in various working groups. This appeal is addressed to all divisions of ANS. There are 25 standards to be worked on. These include

- Personnel Training, Single Failure
- Auxiliary Feedwater, Diesel Generator Systems
- Remote Site Environmental Characterization, Data Validation for Environmental Remediation
- Decay Heat, Pipe Rupture Effects, Pressure/Temperature Transient Analysis
- Siting for Commercial Burial Grounds, Surface Water, Ground Water, Flooding
- Mobile Radwaste Systems, Fuel Assembly ID, LWR Fuel Consolidation

Interested persons should contact Suriya Ahmad (708-579-8269) [samhad@ans.org](mailto:samhad@ans.org)

**9. Program Committee Report:** (A. Haghighat) the Program Committee met earlier in the day. Alireza Haghighat reported by that at this meeting seven sessions were sponsored or co-sponsored by the M&C division. Notable among these were the two special sessions on “Advanced Nodal Methods and the Legacy of Allan F. Henry.”

A special session on the convergence of Monte Carlo methods has been approved for the 2002 Winter Meeting. The session is organized by Roger N. Blomquist and Forrest B. Brown.

The continuing discussion on the papers review method (see minutes from the Milwaukee meeting) will continue at the next meeting (Florida). The reason for this postponement is the low number of papers that had to be reviewed for this conference and thus the lack of a significant amount of new data for a meaningful discussion.

**10. Treasurer’s Report:** (S. Nolen) The treasurer presented the state of the budget of the division. A number of items that affect the budget were then discussed. These are:

- Student support: travel to annual meeting
- Student support: student conference
- Student awards
- Student support: travel to M&C events

Regarding support for student travel to national meetings, it was suggested that \$500 be allocated for each national meeting. The money is to be given to ANS HQ for centralized administration (Paul Wilson). Other proposals were to allocate \$1000 to the Penn State Student Conference for travel support, \$250 to sponsor two M&C Awards at the same student conference (\$125 each for a graduate and an undergraduate award, respectively), \$125 per annual meeting for student tickets to the president reception starting in the Summer 2002 meeting, and \$1000 for the Dannel endowment (one time gift in Winter 2001). Motions were made to approve these proposals as shown above, except for the Dannel Endowment gift. Instead, the Dannel Endowment is to be the beneficiary of two proposed gifts. These are

- A one time \$3000 gift to the Dannel Endowment (as a Winter 2001 expense),
- A \$1000 gift to the Dannel Endowment (as a Winter 2002 budget item).

It was moved that these gifts be approved, and the motion was passed. In addition to the above approved budget items, it was moved that

- \$100 be spent for a plaque for the Distinguished Service Award (as a current expense),
- 25% of the final net proceeds from the September Topical be approved for transfer to Reactor Physics Division,
- \$250 be given to the Penn State Student Conference (as a Summer 2002 budgeted item),

The motions for these three items also passed.

As a result of the decisions made by the committee, the Division's current budget and its budgets for the Winter 2001, Summer 2002 and Winter 2002 periods are as summarized in the table on the next page. The last column (Summer 2003) is tentative and was not approved by the committee.

The meeting was adjourned at about 5:00 pm.

[www.mcd.ans.org](http://www.mcd.ans.org).

	<b>M&amp;C Division Financial Report</b>				
	Current	Winter 2001	Summer 2002	Winter 2002	Summer 2003
<b>Budget Funds</b>					
Previous Balance	\$16,781				
Tentative Proceeds from Topical	\$11,378				
Total	\$28,159				
<b>Awards</b>					
Distinguished Service Award	(\$500)				
Disting. Service Award Plaque	(\$100)				
Student Paper	(\$250)		(\$250)		
Total	(\$850)	\$0	(\$250)	\$0	\$0
<b>Student</b>					
M&C Topical					(\$2,000)
President's Reception			(\$125)	(\$125)	(\$125)
Travel	(\$1,000)	(\$500)	(\$500)	(\$500)	(\$500)
Student Conference			(\$1,000)		
Total	(\$1,000)	(\$500)	(\$1,625)	(\$625)	(\$2,625)
<b>Scholarships</b>					
Dannel		(\$3,000)		(\$1,000)	
<b>Other</b>					
RPD 25% final from Topical		(\$2,845)			
<b>Balance</b>	26309	19964.5	18089.5	16464.5	13839.5

The columns labeled Current, Winter 2001, Summer 2002 and Winter 2002 were proposed in a motion and approved.