

American Nuclear Society Winter Meeting
Omni Shoreham Hotel
Washington DC
November 14, 2004

MINUTES OF THE BIOLOGY AND MEDICINE DIVISION MEETING

2003-2004 OFFICERS

Chair:

Amares Chatt

Vice Chair/Chair-Elect:

Secretary/Treasurer:

Dickerson Moreno

Executive Committee:

Nicholas Spyrou

Christina Plies

Robert Greenberg

MEMBERS PRESENT

Stephen LaMont, Christina Plies, Kenan Unlu, Sam Glover, Dickerson Moreno, Rolf Zeisler, Amares Chatt, Robert Greenberg, Sheldon Lansberger, Elizabeth Fernandez

OTHERS PRESENT

Jerry Cuttler, Ted Rockwell, Robert Jeraj, Alireza Haghghat, Niskha Devaser

Nuclear Analytical Methods in the Life Sciences - 8

April
17 -
22,
2005

Rio de Janeiro, Brazil

General Chair:	Elisabeta A. DeNadai Fernandes (Centro de Energia Nuclear na Agricultura, University of Sao Paulo)
Technical Program Chair:	Elisabeta A. DeNadai Fernandes (Centro de Energia Nuclear na Agricultura, University of Sao Paulo)

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1) The Committee of the Whole meeting of the Biology and Medicine Division was called to order by Amares Chatt at 4:00 pm at Parlor #230 of the Omni Shoreham Hotel in Washington DC.

2) Adoption of Meeting Agenda -

Copies of the meeting agenda were distributed and a general agreement for its acceptance was reached.

3)

A) Robert Jeraj (University of Wisconsin-Madison) and Alireza Haghghat (University of Florida) gave a pitch for the Computational Medical Physics (TGCoMP) group. A summary of their presentation is as follows:

As the medical physics community acquired faster ways of obtaining high-resolution images, the use of large computer memory space has been inevitable. Advance modeling programs and gigabytes of memory space were needed for the release of the Visible Human Project and the Virtual Human Project. The establishment of National Institute of Biomedical Imaging and Bioengineering (NIBIB) in 2001 further pushed for the need of advanced computational tools in medical physics. The Department of Energy has a number of program tools and models that could make this idea possible (e.g., MCNP, MCNPX, PENELOPE, EGS4, GEANT, DOORS, DANTSYS, ATILA, PENETRAN, VENTURE, REBUS). Most of these programs have been used in nuclear engineering research. The formation of a *computational medical physics group* within the ANS will make these programs more accessible to medical physicists and will also make possible a more close collaboration between medical physicists and national laboratories and other research facilities.

They stated that it is difficult for a medical physicist to find the right audience to address within the ANS and that there is a lot of medical physicists in the AAPM fold that may be attracted to join the ANS should the creation of technical committee pushes through. He added that many medical physicists are not familiar with the DOE's national

laboratories. There is a gap between medical physicists and the general ANS constituency, and apparently ANS has not been able to fill this gap.

A number of questions were raised by the members of the division but it was decided to talk about the topic later in the discussion.

B) Students from the University of Wisconsin-Madison led by Ross Radel thanked the BMD's support that contributed to the success of the 2004 ANS Student Conference in Madison Wisconsin entitled, "Out of the Ashes: Revival of the Nuclear Era". Students from the Ohio State University ANS student section came in to rally support for the 2005 ANS Student Conference in Ohio State University. The title of the Conference will be: From the Classroom to the Cutting Edge: *Developing Tomorrow's Nuclear Technology Leaders*.

4) Secretary/ Treasurer's Report

Dickerson Moreno distributed the BMD 2004 Financial Report (Please see attachment). The BMD savings from 2003 amounted to \$6364.00. All 2004 expenses were basically to support student activities, i.e., \$200 for the ANS student conference in Madison, Wisconsin and a \$400.00 travel grant to the "Best Presentation" winner of a BMD related track at the student conference. The eventual winner was Daniel Mundy of Purdue University, who was requested by the BMD to present his paper at a BMD sponsored session at the ANS Winter Meeting in Washington DC. Daniel Mundy however wasn't able to make it to the meeting (although he submitted his abstract and was expected to give a talk) because of an emergency appendectomy the night before his trip. The BMD executive committee needs to decide on this matter.

The BMD received \$5000.00 from the Methods and Applications of Radioanalytical Chemistry (MARC-VI) held on April 7-11, 2003 in Kailua-Kona, Hi.

5) Program Committee

Sam Glover reported that the BMD has invited 27 papers to the 2004 ANS Winter Meeting and sponsored five sessions (together with the IRD). Below are the list of sessions:

- A. Radiochemical and Nuclear Analytical Methods and Applications
- B. University Radiochemistry and Nuclear Chemistry Programs
- C. Nuclear Methods in Human Health and Clinical Research
- D. Nuclear Analytical Techniques
- E. Labeling and Quality Control of Radiopharmaceutical Compounds

6) Membership Committee

Rolf Zeisler distributed copies of the BMD annual membership figures (Please see attachment). It was noted that the BMD membership has been steadily increasing through the years and has reached 452 members as of December 2003. As of September 2004, the

BMD has 434 members – but this is not counting people who would still be renewing/earning their ANS yearly membership.

DISCUSSION

- 1) Amares Chatt suggested that the BMD update its ANS-hosted website. This could be done by sending an email containing new officers updates to the ANS webmaster. Dickerson Moreno agreed to perform the task.
- 2) 2005 Slate of Candidates for Biology and Medicine Division (by Rolf Zeisler:Chair, BMD Nominating Committee):

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Executive Committee

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3) It was noted that the BMD has not nominated anybody to the James R. Vogt Memorial Graduate Scholarship. Stephen Lamont moved to nominate (I'm sorry I didn't catch the name) to the James R. Vogt Scholarship for 2005. Rolf second the motion and the move was unanimously approved.

4) Sam Glover moved that we continuously support the student activities like we did last year, particular now that just received \$5000.00 from the Methods and Applications of Radioanalytical Chemistry (MARC-VI) meeting. He moved to give \$200.00 to support the 2005 ANS Student Conference at the Ohio State University and \$400.00 to the Best presentation winner of a BMD related track. The winner of the track should present his

paper at the 2005 Winter meeting to get his travel award. Stephen LaMont seconded and the move was unanimously approved.

5) Christina Plies suggested to have a BMD Student Liaison. It was also suggested that Nishka Devaser be the new editor for the BMD newsletter. BMD members can send a few paragraphs about conference announcements, calls for papers, interesting research, upcoming meetings to put together for a newsletter.

6) The group tackled the issue on Computational Medical Physics (TGCoMP) group. The general consensus was to reject the proposal but to change the name of the BMD to Biology and Medical Physics. Sheldon moved to issue a statement stating that the BMD cannot support the formation of the new group since its goals are within the BMD's goals (since the BMD is multidisciplinary and involves everything related to medical radiation, as well). The BMD would welcome the members of the new Technical Group with open arms. Sam Glover seconded the motion and the move was approved.

7) Committees: Updates

The Publications Committee was abolished. The committee on Nuclear Aspects of Food was changed to Health and Safety Aspects of Food. The NCRP Liaison Committee was abolished. The Quality Programs for Nuclear Analysis and Metrology in Nuclear Analysis were merged to become Quality Assurance and Metrology in Nuclear Analysis. Below is a summary of the committees:

- A) Trace Analysis Committee
- B) Commercial Activation Analysis
- C) Health and Safety Aspects of Food
- D) Radioisotope Production and Applications
- E) Low Level Radiation Health Effects
- F) Quality Assurance and Metrology in Nuclear Analysis.

Respectfully submitted,

Dickerson C. Moreno PhD

Secretary/ Treasurer

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AMERICAN NUCLEAR SOCIETY BUDGET 2004

BIO MEDICAL	NINE MONTHS							PROPOSED
	ACTUAL 1997	ACTUAL 1998	ACTUAL 1999	ACTUAL 2000	ACTUAL 2001	ACTUAL 2002	ACTUAL 2003	BUDGET 2004
BUDGET FUNDS								
CURRENT YEAR								
MEMBER ALLOC.	349	324	277	327	428	355	430	
CARRY FORWARD, PRIOR YEAR	1807	3055	3436	3713	3960	5579	5934	6364
OTHER BUDGET FUNDS	1264	648			2791	0	0	
TOTAL BUDGET FUNDS	3420	4027	3713	4040	7179	5934	6364	
BUDGET EXPENSES								
NEWSLETTERS	0	0	0	0	0	0	0	
AWARDS, PLAQUES	0	0	0	0	0	0	0	
NATIONAL MEETING COSTS	200	391	0	80	0	0	0	
TRAVEL EXPENSE	0	0	0	0	0	0	0	
STUDENT SUPPORT	0	200	0	0	600	0	0	600
SCHOLARSHIP/NEE DED FUNDING	150	0	0	0	0	0	0	
OTHER EXPENSES	15	0	0	0	1000	0	0	
TOTAL EXPENSES	365	591	0	80	1600	0	0	
EXCESS (DEFICIENCY) OF BUDGET FUNDS OVER EXPENSE	3055	3436	3713	3960	5579	5934	6364	

Submitted By:

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Bio & Med Annual Membership

