

MINUTES OF THE REACTOR PHYSICS DIVISION EXECUTIVE COMMITTEE MEETING
AMERICAN NUCLEAR SOCIETY
Omni Shoreham Hotel
Washington, D.C.
November 13, 2005, 4:00-6:00 PM

The RPD executive committee meeting was held on November 13, 2005 at the Omni Shoreham Hotel in Washington, D.C.

1. The meeting was called to order by the Chair Jess Gehin at 4:23PM.
 - a. Meeting Agenda provided as Attachment 1
 - b. Meeting Attendance provided as Attachment 2
 - c. Items 2 and 3 below deviated from agenda due to availability of individuals.
2. Andrew Kadak – MIT kadak@mit.edu
 - a. Seeking qualified candidates to teach Reactor Physics at MIT
 - b. Would only be required to teach one undergraduate and one graduate course
 - c. Dr. Kadak posed two questions to the RPD Executive Committee:
 - i. Do you know anybody that might be interested?
 - ii. What research areas (hot topics) might be of interest for tenure track?
 - d. Dr. Kadak noted the position notice has been posted on the ANS website and asked that if anyone had responses to Item c to please e-mail him.
3. Joe Fricano addressed the RPD on the 2006 Student Conference
 - a. Conference to be held March 30 – April 1st, Troy New York (RPI)
 - b. Solicitation made for volunteers to judge
 - c. Theme of Meeting: “Nuclear Power: A Look at the Future”
 - d. RPD Chair conveyed to Joe that \$1,500 would be made available for the conference
4. RPD Executive Committee **voted and approved** the minutes of the June 2005 meeting held in San Diego.
5. Newsletter
 - a. Goal to put out next issue before end of 2006
 - b. Jeff Bradfute to circulate outline and solicit input in next couple weeks
 - c. Proposal made that newsletters should be finalized by April 15th and September 15th in each year in order to align with national meetings. For years that include a PHYSOR or Topical Meeting, the finalization date should be moved forward.
6. RPD Website
 - a. Jason Green (Georgia Tech) provided summary of website changes that were ready for implementation.
 - b. Discussion held noting the importance of ensuring content was up to date (not currently the case) rather than focusing on appearance of website.
 - c. Vice-Chair to review status of website and provide updates to content.
 - d. Vice-Chair will report at each future meeting the status of the website.
7. The treasurer Farzad Rahnema reported that the actual budget through September 2005 is \$10,997 relative to a 2005 forecast of \$13,280. The Treasurer’s Report is provided as Attachment 3.
 - a. Ben Rouben discussed proposal to provide \$2000 for PHYSOR 2006 student support.

- i. \$500, \$300, \$200 Student Paper Awards
 - ii. \$1000 to fund to cover student travel
 - b. RPD Executive Committee **voted and approved** the expenditure of \$2000 in the 2006 Budget.
 - c. Jess Gehin discussed \$2000 appropriation to scholarship fund.
 - d. Motion made to **table decision** on 2005 \$2000 scholarship expenditure until next meeting. Jess Gehin has action to obtain status of scholarship funding and report at June 2006 meeting

8. The nominating committee recommended the following slate for the 2006-2007 officers and executive members:

Chair:	Benjamin Rouben	
Vice-Chair/Chair Elect:	Farzad Rahnema	
Treasurer:	Jeffrey Bradfute	
Secretary:	Atul Karve	Contested (1 of 2)
	Bob St. Clair	
Executive Committee:	<u>United States</u>	Contested (2 of 3)
	Michael Todosow	
	Pavel Hejzlar	
	Bojan Petrovic	
	<u>International</u>	
	Ken Kozier	

9. Scholarship Committee

- a. Applications will be received in early 2006.
- b. Funding decision **tabled** per item 7 d above.
- c. Jess Gehin to assume Chair of Scholarship Committee from Phillip Finck

10. RPD Program Committee. Ivan Maldonado, reported the following:

- a. PHYSOR 2008
 - i. Switzerland recommended host of PHYSOR 2008 meeting.
 - ii. RPD Executive Committee **voted and approved** Switzerland to host PHYSOR 2008
- b. Winter 2005
 - i. Roughly 50 papers for the Winter 2005 Meeting
 - ii. Monday/Tuesday meetings are half sessions
 - iii. Tuesday meeting will include Wigner Award
- c. Summer 2006
 - i. Two special sessions organized by Farzad Rahnema on Reactor Physics for Gas Cooled Reactors
 - ii. One special session organized by Mark DeHart on student and professional collaborations.
 - iii. The deadline for papers is January 2006.
- d. Winter 2006
 - i. Bob Busch spoke at TPC meeting and encouraged special sessions
 - ii. Dale Lancaster made the recommendation that RPD collaborate with the Criticality Division on "Greater than 5 w/o Fuel"
- e. New Incoming Chair

- i. Scott Thomas has accepted position as Program Committee Co-chair and will take over after the June 2006 meeting.
 - f. 2009 Fuel Management Topical
 - i. Advances in Nuclear Fuel Management IV – April 2009
 - ii. Dave Kropaczek, General Chair/Atul Karve, Technical Program Chair
 - iii. RPD Executive Committee **voted and approved** authorization for the Eastern Carolina Section to host the ANFM IV in 2009.
 - g. First International Conference on Physics and Technology of Reactors and Applications in Morocco
 - i. RPD Executive Committee **voted and approved** RPD endorsement as a Class 4 meeting
 - h. PHYSOR 2006
 - i. Ben Rouben summarized status of PHYSOR 2006 planning
 - ii. Will meet Tuesday 4:00 – 6:00 pm at the TPC meeting.
11. Standards Committee Report – Dmitri Cokinos
- a. With all approvals at the ANS level completed, the two standards, ANS-19.3, "Determination of Neutron Reaction Rate Distribution and Reactivity of Nuclear Reactors" under Ben Rouben (AECL), Working Group Chair, and ANS-19.6.1 "Reload Startup Physics Tests for Pressurized Water Reactors", under Charlie Rombough (CTR-Technical Services), WG chair, are on their way to becoming American National Standards, known as ANS/ANSI standards.
 - b. Dmitri was informed today that the reload tests standard has just been approved by ANSI (American Standards Institute) Board.
 - c. The 2005 revision of the "Decay Heat Standard ", ANS-5.1, carried out under Mikey Brady Raap's (PNNL) chairmanship, has been in circulation for the past three months. The new chair of ANS-5.1 is Ian Gauld of ORNL.
 - d. At the ANS-19 Committee meeting on 11/14/05, there were a few comments by the Committee members that needed to be addressed on proposed standard ANS-19.10, "Fast Neutron Fluence in the Pressure Vessel" before the final Committee review. WG chair for ANS-19.10 is Lambros Lois (NRC). Former chair of ANS-5.1, Mikey Brady-Raap is now heading the reconstituted Working Group on the "Delayed Neutrons" proposed standard, ANS-19.9.
 - e. Efforts are underway to develop U.S. representation at, and collaboration with, the International Standards Organization (ISO). Reactor physics standards and standards for research reactors are the first two areas accepted by ISO.
12. Honors and Awards
- a. Wigner Award
 - i. Massimo Salvatores is the 2006 winner
 - b. ANS Fellows
 - i. Deadline for next fellow awards is January 2006
 - ii. Decision made to publish current RPD fellows in newsletter and encourage the nomination of those who are not yet fellows.
 - iii. Dmitri will supply article for next newsletter.
13. Joint Benchmark Committee Report. Russ Mosteller reported the following:
- a. Committee encouraged computational benchmarks (rather than experimental)
 - b. Glenn Sjoden looking into the development of a list of potentially benchmark-quality experiments that so far have only limited documentation.

14. Goals and Planning Committee
 - a. Jess Gehin reported that the 1 year and 5 year tactical plans were updated during the earlier meeting.

15. Professional Divisions Committee. Jess Gehin reported the following:
 - a. Procedure for forming a technical group has been updated. Criteria for a division to make the case that they are being impacted has been updated.
 - i. Discussion held on the merits of RPD approving this procedure.
 - ii. Key criteria that must be met in order to establish impact:
 1. Would potentially cause a 3% or greater decrease in membership of the affected PD/TG's, and/or
 2. Would potentially cause a decrease in attendance/support at meetings/programs of the affected PDs/TGs by duplicating topics such that the meetings metric would not be met, and/or
 3. Would potentially cause a decrease in revenue of \$3000 or more per year to the affected PDs/TGs.
 - iii. RPD Executive Committee **voted and approved** a motion for RPD Chair vote to not approve the criteria.
 - b. Professional Divisions Committee (PDC) procedure for establishing a Working Group (WG)
 - i. Discussion held on the merits of RPD approving this procedure.
 - ii. RPD Executive Committee **voted and approved** a motion RPD Chair to vote to approve with comments.
 - c. RPD Executive Committee **voted and approved** RPD support for formation of Nuclear Production of Hydrogen working group.

16. Standards and Bylaws
 - a. RPD will form committee to address new bylaws. The committee will consist of Jess Gehin, Ben Rouben and Baard Johansen.

17. Meeting was adjourned at 6:28 pm.

Respectfully submitted by Jeffrey L. Bradfute, Secretary

Attachment 1 – Agenda

REACTOR PHYSICS DIVISION EXECUTIVE COMMITTEE

Sunday, November 13, 2005

4:00 – 6:00 PM

Location: Parlor #252

Omni Shoreham Hotel, Washington, DC

AGENDA

1. Secretary's Report
 - a. Approval of Minutes, June 2005 Meeting
 - b. RPD NewsletterJeff Bradfute

2. Treasurer's Report
 - a. 2005 Budget Status
 - b. Recommendation for 2006 RPD BudgetFarzad Rahnema

3. Nominating Committee Report – 2006 Candidate Slate

4. Scholarship Committee
 - a. Henry / Greebler Scholarship Current Funding
 - b. Recommendation for RPD funding contributionsPhillip Finck

5. Program Committee Report
 - a. 2008 Topical Meeting selection
 - b. 2006 Winter Meeting (Washington, DC)
 - c. 2006 Annual Meeting (Reno, NV)
 - d. 2006 Winter Meeting (Albuquerque, NM)
 - e. New alternate chair/incoming chairIvan Maldonado

6. Reports on Topical Meetings
 - a. PHYSOR 2006

7. Standards Committee Report

8. Honors and Awards Committee Report
 - a. Wigner Award / Wigner Lecture
 - b. ANS FellowsDmitri Cokinos

9. Joint Benchmark Committee Report

10. Goals and Planning Committee
 - a. 2005-2008 Operational Plan updatesJess Gehin
Baard Johansen

11. Professional Divisions Committee – Summary

12. Other Topics
 - a. New bylaws and rules
 - b. Announcement of "Economics in Nuclear Industry" Symposium
 - c. Request for student support
 - d. New businessJess Gehin
Tom Sutton

13. Adjourn

Attachment 2 – Attendance List

1) Ivan Maldonado	Univ. of Cincinnati	ivan.maldonado@uc.edu
2) Farzad Rahnema	Georgia Tech	farazd@gatech.edu
3) Ken Kozier	AECL	kozierk@aecl.ca
4) Jess Gehin	ORNL	gehinje@ornl.gov
5) Jeff Bradfute	Westinghouse	bradfuji@westinghouse.com
6) Brian Aviles	KAPL	bnaviles@alum.mit.edu
7) Bojan Petrovic	Westinghouse	petrovb@westinghouse.com
8) Blair Bromley	AECL- Chalk River	bromleyb@aecl.ca
9) Abderrafi Ougouag	INL	abderrafi.ougouag@inl.gov
10) Michael Zerkle	BAPL	zerkleml@bettis.gov
11) Russ Mosteller	LANL	mosteller@lanl.gov
12) Taek Kim	ANL	tkkim@anl.gov
13) Dimitri Cokinos	BNL	cokinos@bnl.gov
14) Dale Lancaster	Nuclear Consultants	dale@nuclearconsultants.com
15) Ben Rouben	AECL	roubenb@alum.mit.edu
16) Bill Charlton	TAMU	wcharlton@tamu.edu
17) Steve Baker	TransWare Enterprise	sbaker@twe.com
18) Ray Klann	ANL	klann@anl.gov

Attachment 3 – Treasurer’s Report

AMERICAN NUCLEAR SOCIETY
FINANCIAL REPORT 2005 Nov. AND 2005 BUDGET

REACTOR PHYSICS

	ACTUAL 1997	ACTUAL 1998	ACTUAL 1999	ACTUAL 2000	ACTUAL 2001	ACTUAL 2002	ACTUAL 2003	ACTUAL 2004	Notes	Forecast 2005, 6/05	Notes	Actual 2005, 9/05	Proposed 2006, 11/05	Note
BUDGET FUNDS														
CURRENT YEAR MEMBER ALLOC.	1103	1051	1035	1031	1237	1195	1311	1457		1500		1492	1492	
CARRY FORWARD, PRIOR YEAR	3487	1898	4628	8479	20519	11196	16751	8995		9505		9505	10401	
OTHER BUDGET FUNDS	0	3729	7466	13359	1440	11451	690	11131	1	2275	6	2275	2500	8
TOTAL BUDGET FUNDS	4590	6678	13129	22869	23196	23842	18752	21583		13280		13272	14393	
BUDGET EXPENSES														
NEWSLETTERS	0	0	0	0	0	0	0	0		0		0		
AWARDS, PLAQUES	0	0	0	150	0	91	257	78	2	200		0	200	
NATIONAL MEETING COSTS	92	0	0	0	0	0	0	0	3			246		
DIVISION OFFICER EXPENSE	0	0	0	0	0	0	0	0		0		0		
STUDENT SUPPORT	600	800	600	200	2000	2000	2000	2000	4	2000		2000	4000	9
SCHOLARSHIP/NEED FUNDING	2000	600	3400	2000	10000	5000	7500	10000	5	2000	7	0	0	
OTHER EXPENSES	0	650	650	0	0	0	0	0		0		625	600	10
TOTAL EXPENSES	2692	2050	4650	2350	12000	7091	9757	12078		4200		2871	4800	
EXCESS (DEFICIENCY) OF BUDGET FUNDS OVER EXPENSE	1898	4628	8479	20519	11196	16751	8995	9505		9080		10401	9593	

NOTES:

Note 1. Total \$13,785 includes:

AFM-III Meeting	\$3,167
PHYSOR-2004 Meeting	\$10,618
Transfer of PHYSOR-2004 share to M&C	-\$2,654
Total	\$11,131

Note 2. Wang Plaque

Note 3. A previous incorrect charge for audiovisual equipment was reversed.

Note 4. Includes:

Student Travel Support, National Meetings	(\$500, disbursed 2004 May 5)
ANS 2004 Student Conference, U-Wisconsin	(\$1500, disbursed 2004 March 5)

Note 5. Vote at RPD Executive meeting 2004 Nov. 14 to contribute \$10,000 to Henry/Greebler Scholarship in 2004

Note 6; Total \$2,275 includes the following anticipated transactions:

Add RPD Share (25%) of 2003 M&C Topical	\$875
Add 2004 ANS Meeting Participation	\$900
Estimated for National Meeting Participation	\$500
Total	\$2,275

Note no conference income foreseen in 2005, since no PHYSOR in 2005 & M&C Topical in 2005 is a Class 2 meeting, therefore no profit sharing.

Note 7. Decided at RPD Executive meeting 2004 Nov. 14 to leave \$2,000 scholarship contribution in budget for 2005.

Note 8

RPD share of M&C05 topical (25% of M&C share) = \$1.1k
2004 ANS meeting participation = 0.9k
estimated for national meeting participation = 0.5k

Note 9

student conference support \$1.5k
student travel support to ANS = \$0.5k
physor 06 student support = \$2k

Note 10

unanticipated expenses to be billed by ANS

Note 7

EC tabled the contribution to the Henry Geebler Scholarship funds
(i.e., the contribution is suspended and will be discussed in the next meeting)