

MINUTES OF THE REACTOR PHYSICS DIVISION EXECUTIVE COMMITTEE MEETING  
AMERICAN NUCLEAR SOCIETY  
Boston Marriott Copley Place  
Boston, MA  
June 24, 2007, 4:00-6:00 PM

The RPD executive committee meeting was held on June 24, 2007 in the Tufts Room of the Boston Marriott Copley Place in Boston, MA.

1. The meeting was called to order by the RPD Chair Ben Rouben.
  - a. The Meeting Agenda is provided as Attachment 1
  - b. The Meeting Attendance is provided as Attachment 2
2. Ben Rouben expressed the RPD's appreciation to the departing members of the RPD Executive Committee – Steve Baker, Juan-Luis Francois, and Bill Charlton. He also expressed congratulations to Ivan Maldonado on his recent election as RPD Secretary.
3. Secretary's Report
  - a. RPD Executive Committee **voted and approved** the minutes of the November 2006 meeting held in Albuquerque, NM.
  - b. Newsletter
    - i. Spring newsletter supported by good, on-time contributions. Timing of issue seems to support attendance at national meetings.
    - ii. Submittal dates of April 15<sup>th</sup> and September 15<sup>th</sup> to align with national meetings will be continued. New Secretary will provide reminder notice for contributions to Fall newsletter.
    - iii. Suggested additions to the Division Newsletters include a variety of hyperlinks and a RPD calendar of events.
4. Ben Rouben noted attendance of Zack Bailey and Sarah Swarz to update RPD on 2008 ANS Student Conference
  - a. Conference is scheduled for next Spring (2/28-3/1) at Texas A&M University
  - b. Conference is seeking sponsors including the RPD
  - c. Conference is seeking an Imbedded Topical meeting
  - d. Last conference had ~300 students, hoping to attract 500-600 students
5. Status report on 2009 M&C Topical Meeting by Ray Gamino (General Chair)
  - a. "International Conference on Advances in Mathematics, Computational Methods, and Reactor Physics" at Saratoga Springs, NY on 5/3/09 – 5/7/09
  - b. Meeting information is available at [http://local.ans.org/ne-ny/topical\\_2009\\_neny.html](http://local.ans.org/ne-ny/topical_2009_neny.html)
  - c. Proceeds will follow existing agreement for cosponsored meetings by M&C and RPD
    - i. ~50% goes to ANS National, Division share is split 75/25 between M&C and RPD, split between local sponsor and Divisions determined by negotiation
6. Treasurer's Report
  - a. 2007 Budget Status
    - i. Jeff discussed several items including the interest income, board endowment, and Division membership numbers, a subsequently revised budget is provided as Attachment 3
    - ii. Farzad Rahnema agreed to work with Jeff to verify RPD membership

- iii. Voting on RPD financial support for the student conference will be deferred until the November Executive Committee meeting
  
- 7. Nominating Committee
  - a. Jess Gehin reported on the results of the recent RPD election
    - i. Ivan Maldonado won the position of Secretary
    - ii. Keith J. Drudy, Paul G. Edelmann, Kostadin N. Ivanov, and Simone Santandrea were elected to the RPD Executive Committee
    - iii. The uncontested candidates for Chair, Vice Chair, and Treasurer were ratified
  - b. Jess will work with ANS National (Toni Bishop) to ensure future ballots clearly identify the needs of RPD and that results are determined consistently.
  
- 8. RPD Website
  - a. RPD Vice-Chair Farzad Rahnama noted that the web site is currently being maintained by a student at Georgia Tech (Jason Breen). Lacking recommended replacements, Farzad offered to pursue retaining Jason as webmaster
  - b. Bojan Petrovic recommended adding several items to the website and will provide written suggestions to Farzad
  
- 9. Scholarship Committee
  - a. Chair of the scholarship committee, Jess Gehin reported the committee membership includes Thomas Downar, Temitope Tiawo, and Dimitri Cokinos
  - b. Max Frantoni (Berkeley) is the latest winner of the Henry-Greebler scholarship
  - c. 26 candidates were identified for the scholarship
  - d. Jess' investigation of the potential for increasing the award amount identified:
    - i. ANS National uses a "rule of 20" to determine if a scholarship is fully endowed (funds are > 20 times the award amount)
    - ii. Funds in excess of the requirements for full endowment may be redistributed
    - iii. After much discussion a motion was made and passed to award 2 scholarships each year from the Henry-Greebler fund in the amounts of \$2000 for an undergraduate and \$3500 for a graduate student
  
- 10. Ben Rouben yielded the floor to Adolph Garcia and Mikey Brady-Raap
  - a. Adolph described an existing meeting scheduled on the Friday of each ANS national meeting currently sponsored by the Criticality Division
  - b. This meeting is independently organized, targets "Sustainable Nuclear", is high level/not detailed technical presentation, and is not part of the ANS national program
  - c. Meeting organizers are seeking endorsement by the RPD to allow scheduling and advertising consistent with Division sponsored activities
  - d. Motion for RPD endorsement was unanimously approved
  
- 11. RPD Program Committee. Bojan Petrovic reported the following:
  - a. 2007 Annual meeting includes 9 time slots
  - b. 3 standard sessions, 1 panel session, and 3 special sessions
    - i. 1 special session includes 17 papers in 3 subsessions [Why the change in font below?]
    - ii. Standing Sessions
      - 7h. Reactor analysis methods
      - 7i. Reactor physics design, validation and operating experience
      - 7p. Reactor physics: General

- Panel Session
- 7c. Current Topics for Reactor Engineers (Bob St.Clair)
- SPECIAL SESSIONS
- 7c. New Perspectives on Validation and Verification for Reactor Physics Analysis (Mark DeHart)
- 8g. Recycling of Transuranics in Advanced Fuel Cycle Systems - I, II, III (Pavel Hejzlar)
- 7e. The Physics of Plutonium and MOX-Fueled Cores (Paul Edelmann)
- c. 2007 Winter meeting in Washington includes 8 sessions: 3 standing, 1 panel, and 4 special
  - i. ~52 papers have been submitted
  - ii. Standing Sessions
    - 7g. Reactor analysis methods
    - 7h. Reactor physics design, validation and operating experience
    - 7i. Reactor physics: General
- PANEL SESSIONS
- To Be Determined
- SPECIAL SESSIONS
- 7c. Latest Lattice Physics/Core Simulation Methods for Reactor Analysis (Akio Yamamoto)
- 7d. Advanced Methods, Codes and Benchmarking of the NURESIM Core Physics European Simulation Platform (Jose Aragonés)
- 7e. LWR Automatic Core Design Optimization (Albert Gu)
- 8m. Design and Evaluation of Advanced Burner Reactors (T.K. Kim and Won-sik Yang)
- d. 2008 Annual meeting in Anaheim currently includes 3 standing, 1 panel, 1 approved special, and 1 proposed special session
- e. Information on PHYSOR 2008 to be held in Interlaken, Switzerland can be found on the meeting website ([www.physor2008.ch](http://www.physor2008.ch))
  - i. Extended summaries may be submitted beginning 8/15/07 and ending 10/5/07
- f. The M&C and SNA Joint International Conference was held in Monterey, CA
  - i. ~280 attendees
  - ii. 228 papers
- ~\$5000 - \$6000 is expected to go to the ANS Divisions

## 12. Standards Committee Report – Dimitri Cokinos

- a. Refer to the RPD Spring 2007 Newsletter for details on Standards activities
- b. ANS-19 will be voting on proposed standard ANS-19.10 “Determination of Neutron Fluence in BWR and PWR Pressure Vessel and Reactor Internals”
- c. There is a proposal for a new standard on reactor spectra for the production of certain medical isotopes
- d. A special session is being organized for PHYSOR 2008 by Dimitri (for U.S. contributors) and Enrico Sartori (for non-U.S. contributors)

## 13. Honors and Awards – Dimitri Cokinos

- a. Wigner Award
  - i. No nominees at this time
- b. ANS Fellows
  - i. No nominees at this time from RPD

14. Joint Benchmark Committee Report. Russ Mosteller reported the following:
  - a. Two benchmarks were approved in the past year
  - b. Attendance/participation has been lacking, only 7 attendees at today's committee meeting
  - c. Members of the RPD Executive and Program Committees will be added to email distributions
  - d. Currently chartered by 3 Divisions, may add another Division
  
15. Goals and Planning Committee – Farzad Rahnema
  - a. Farzad provided copies of the 2006-2010 Operational Plan as updated on 11/6/2006
  - b. Updates to several line items in the plan were identified including, among others:
    - i. Combining items 11-13 into one item regarding the Wigner award
    - ii. Status for item 17 should indicate that Standard Division Bylaws have been approved by ANS and Division Rules need to be created
    - iii. 3 workshops organized for PHYSOR 2006 should be added to the Division Metric for National Meeting Participation as a Division Service
    - iv. As Division Vice-Chair, Jeff Bradfute will update/manage the Operational Plan
  
16. Professional Divisions Committee/Bylaws – Ben Rouben
  - a. Standard bylaws have already been passed for all Divisions, RPD Rules need to be created
  - b. Total ANS membership has decreased slightly  
Ben Rouben will represent RPD at the Tuesday Professional Divisions meeting.
  
17. Meeting was adjourned at ~6:00 pm.

Respectfully submitted by Robert St.Clair, Secretary

**Attachment 1 – Agenda**

**REACTOR PHYSICS DIVISION EXECUTIVE COMMITTEE**

**Sunday, June 24, 2007**

**4:00 – 6:00 PM**

**Location: Tufts Room**

**Boston Marriott Copley Place, Boston, MA**

**AGENDA**

- |   |                     |
|---|---------------------|
| 1. Secretary's Report   | Bob StClair         |
| a. Approval of Minutes, November 2006 Meeting   |                     |
| b. RPD Newsletter   |                     |
| 2. Treasurer's Report and Budget Status   | Jeff Bradfute       |
| 3. Nominating Committee Report on 2007 Election   | Jess Gehin          |
| 4. Report on RPD Website  | Farzad Rahnema      |
| 5. Scholarship Committee  | Jess Gehin          |
| 6. Program Committee Report   | Bojan Petrovic      |
| a. 2007 Summer Meeting (Boston, MA)   |                     |
| b. 2007 Winter Meeting (Washington, DC)   |                     |
| c. 2008 Summer Meeting (Anaheim, CA)  |                     |
| 7. Reports on Topical Meetings  |                     |
| a. PHYSOR-2008  | Konstantin Foskolos |
| b. Joint International Conference on Mathematics and Computation<br>and Supercomputing in Nuclear Applications (M&C+SNA-2007) | TBA                 |
| 8. Standards Committee Report   | Dimitrios Cokinos   |
| 9. Honors and Awards Committee Report   | Dimitrios Cokinos   |
| 10. Joint Benchmark Committee Report  | Russ Mosteller      |
| 11. Goals and Planning Committee  |                     |
| a. 2005-2009 Operational Plan updates   | Farzad Rahnema      |
| 12. Division Bylaws   | Jess Gehin          |
| 13. Professional Divisions Committee – Summary  | Ben Rouben          |

14. Other Topics

- a. Request for student support

15. Any New Business

16. Adjournment

## Attachment 2 – Attendance List

1) Ivan Maldonado	Univ. of Cincinnati	<a href="mailto:ivan.maldonado@uc.edu">ivan.maldonado@uc.edu</a>
2) Farzad Rahnema	Georgia Tech	<a href="mailto:farzad@gatech.edu">farzad@gatech.edu</a>
3) Jess Gehin	ORNL	<a href="mailto:gehinje@ornl.gov">gehinje@ornl.gov</a>
4) Jeff Bradfute	Westinghouse	<a href="mailto:bradfujl@westinghouse.com">bradfujl@westinghouse.com</a>
5) Bojan Petrovic	Westinghouse	<a href="mailto:petrovb@westinghouse.com">petrovb@westinghouse.com</a>
6) Russ Mosteller	LANL	<a href="mailto:mosteller@lanl.gov">mosteller@lanl.gov</a>
7) Dimitri Cokinos	BNL	<a href="mailto:cokinos@bnl.gov">cokinos@bnl.gov</a>
8) Bob St. Clair	Duke	<a href="mailto:brstclai@duke-energy.com">brstclai@duke-energy.com</a>
9) Ben Rouben	12 &1 Consulting	<a href="mailto:roubenb@alum.mit.edu">roubenb@alum.mit.edu</a>
10) Michael Todosow	BNL	<a href="mailto:todosowm@bnl.gov">todosowm@bnl.gov</a>
11) Pavel Hejzlar	MIT	<a href="mailto:hejzlar@mit.edu">hejzlar@mit.edu</a>
12) Mike Zerkle	BAPL	<a href="mailto:zerkleml@bettis.gov">zerkleml@bettis.gov</a>
13) Ken Kozier	AECL	<a href="mailto:kozier@aecl.ca">kozier@aecl.ca</a>
14) Michael Brady Raap	PNNL	<a href="mailto:michaele.bradyraap@pnl.gov">michaele.bradyraap@pnl.gov</a>
15) Paul Edelmann	LANL	<a href="mailto:edelmann@lanl.gov">edelmann@lanl.gov</a>
16) T. K. Kim	ANL	<a href="mailto:tkkim@anl.gov">tkkim@anl.gov</a>
17) Juan-Luis Francois	University of Mexico	<a href="mailto:jlfl@fi-b-unam.mx">jlfl@fi-b-unam.mx</a>
18) Kostadin Ivanov	Penn State Univ.	<a href="mailto:kmi1@psu.edu">kmi1@psu.edu</a>

## Attachment 3 – Treasurer’s Report

**AMERICAN NUCLEAR SOCIETY  
FINANCIAL REPORT NOVEMBER 2006 AND PROPOSED 2007 BUDGET**

Prepared November 12, 2006

**REACTOR PHYSICS DIVISION**

	ACTUAL 1997	ACTUAL 1998	ACTUAL 1999	ACTUAL 2000	ACTUAL 2001	ACTUAL 2002	ACTUAL 2003	ACTUAL 2004	ACTUAL 2005	Forecast 2006, 11/06	Notes	ACTUAL 2006, 11/06	Proposed 2007, 11/06	Note
<b>BUDGET FUNDS</b>														
CURRENT YEAR MEMBER ALLOC.	1103	1051	1035	1031	1237	1195	1311	1457	1492	1598		1589	1651	
CARRY FORWARD, PRIOR YEAR	3487	1898	4628	8479	20519	11196	16751	8995	9505	9483		9483	7756	
OTHER BUDGET FUNDS	0	3729	7466	13359	1440	11451	690	11131	1430	11400	1	10000	15,700	4
<b>TOTAL BUDGET FUNDS</b>	<b>4590</b>	<b>6678</b>	<b>13129</b>	<b>22869</b>	<b>23196</b>	<b>23842</b>	<b>18752</b>	<b>21583</b>	<b>12427</b>	<b>22481</b>		<b>21072</b>	<b>25107</b>	
<b>BUDGET EXPENSES</b>														
NEWSLETTERS	0	0	0	0	0	0	0	0	0	0		0		
AWARDS, PLAQUES	0	0	0	150	0	91	257	78	73	100		0	100	
NATIONAL MEETING COSTS	92	0	0	0	0	0	0	0	246	0		0		
DIVISION OFFICER EXPENSE	0	0	0	0	0	0	0	0	0	0		0		
STUDENT SUPPORT	600	800	600	200	2000	2000	2000	2000	2000	4000	2	4000	2500	5
SCHOLARSHIP/NEED FUNDING	2000	600	3400	2000	10000	5000	7500	10000	0	10000	3	10000	0	
OTHER EXPENSES	0	650	650	0	0	0	0	0	625	625		0	500	6
<b>TOTAL EXPENSES</b>	<b>2692</b>	<b>2050</b>	<b>4650</b>	<b>2350</b>	<b>12000</b>	<b>7091</b>	<b>9757</b>	<b>12078</b>	<b>2944</b>	<b>14725</b>		<b>14000</b>	<b>3100</b>	
<b>EXCESS (DEFICIENCY) OF BUDGET FUNDS OVER EXPENSE</b>	<b>1898</b>	<b>4628</b>	<b>8479</b>	<b>20519</b>	<b>11196</b>	<b>16751</b>	<b>8995</b>	<b>9505</b>	<b>9483</b>	<b>7756</b>		<b>7072</b>	<b>22007</b>	

**NOTES:**

**Note 1.** 2006 Other Budget Funds of \$11,400 includes:  
 2006 ANS Meeting Participation 900  
 Estimated National Participation 500  
 Subtotal \$1,400  
 Henry Family Matching Grant \$10,000  
 Total \$11,400

**Note 5**  
 Student conference support \$1,500  
 Student travel support to ANS \$1,000  
 \$2,500

**Note 6**  
 Unanticipated expenses to be billed by ANS

#2758 Henry / Greebler	
Balance 01/01/06	92,900
Plus 9 Months Interest	3,412
Plus 2006 Receipts	10,000
Minus 2006 Disbursements	-3,500
<b>Balance 9/30/06</b>	<b>102,812</b>

**Note 2.** Student Support Includes:  
 Support 06 St conf 1500  
 US st travel Physor mtg 9/06 2000  
 RPD student travel support 500  
 \$4,000

**Note 3. Henry/Greeble Scholarship**  
 \$10,000 matching grant provided by Henry family  
 Scholarship Fully funded as of 11/06

**Note 4.** 2007 Other Budget Funds of \$11,400 includes:  
 2007 ANS Meeting Participation 900  
 Estimated National Participation 500  
 Subtotal \$1,400  
 Physor 2006 (estimated) \$18,000  
 Less M&C Share (25%) for Physor (\$4,500)  
 2007 M&C Conf. (estimated) \$800  
 Total \$15,700

**Henry/Greebler Fund (Acct Number 2758)**

Year	2001	2002	2003	2004	2005	3/31/2006	9/30/2006
<b>Endowment</b>							
Balance BOY	\$45,370.18	\$58,229.92	\$66,094.82	\$80,195.10	\$92,030.48	\$92,900.76	\$92,900
Member Contributions							
Other Contributions	\$11,850.00	\$6,865.00	\$9,252.00	\$10,850.00			\$10,000
Interest Income	\$4,509.74	\$4,499.90	\$3,989.54	\$4,485.38	\$4,370.28	\$1,102.92	\$3,412
Award	\$3,500.00	\$3,500.00	\$3,500.00	\$3,500.00	\$3,500.00		-\$3,500
Change in Balance	\$12,859.74	\$7,864.90	\$9,741.54	\$11,835.38	\$870.28	\$1,102.92	\$9,912
Balance EOY	\$58,229.92	\$66,094.82	\$75,836.36	\$92,030.48	\$92,900.76	\$94,003.68	\$102,812
<b>Board Endowment</b>	<b>\$16,595.53</b>	<b>\$16,595.53</b>	<b>\$16,595.53</b>	<b>\$16,595.53</b>	<b>\$16,595.53</b>	<b>\$16,595.53</b>	<b>\$16,596</b>
<b>Balance with Endowment</b>	<b>\$74,825.45</b>	<b>\$82,690.35</b>	<b>\$92,431.89</b>	<b>\$108,626.01</b>	<b>\$109,496.29</b>	<b>\$110,599.21</b>	<b>\$119,408</b>