



## **Message from the Chair**

*By Jeff Bradfute*

The Reactor Physics Division continues to be one of the strongest technical divisions in ANS as determined by various measures, including excellent national meeting participation, well attended and organized topical meetings, a very active standards program, a high profile award program, and a highly-sought-after scholarship. These strengths position RPD well to continue, and possibly increase, its support and contributions to the field as the nuclear renaissance continues.

I would like to recognize the work of our outgoing Technical Program Chair, Dr. Bojan Petrovic. Bojan worked very hard during his two and half year tenure to support standing, as well as special sessions, on topics of current interest to the reactor physics community. I would also like to welcome Dr. Fausto Franceschini as the incoming Technical Program Chair. I'm confident the high quality of our technical sessions will continue under Fausto's leadership. Both Bojan and Fausto provide program committee reports in this newsletter.

Included in this newsletter is a summary by Ivan Maldonado on the very successful Advances in Nuclear Fuel Management (ANFM-IV) conference that took place in April in Hilton Head, SC. Also included is an update on PHYSOR 2010 preparations by Vefa Kucukboyaci.

For those attending the summer ANS meeting coming up June 14 - 18, I invite you to attend the governance meetings on Sunday afternoon to contribute to the discussion of the future of our division. I welcome any comments or suggestions. Please feel free to e-mail or call me to discuss your ideas.

## **Program Committee News**

### **ANS 2008 Winter Meeting, Reno, NV**

*By Bojan Petrovic*

The 2008 Winter Meeting was held in Reno, NV, November 9-13, 2008. A total of 38 papers were presented in 7 sessions. In addition to our three standing topics (Reactor Physics General – 7 papers, Reactor Analysis Methods – 14 papers in 2 sessions, and Reactor Physics Design, Validation and Operating Experience – 7 papers), two special sessions were organized (Use of Coupled 3D Transport Theory and Depletion Methods in Reactor Physics, organizer Mark DeHart – 4 papers; BWR Stability, organizer Albert Gu – 6 papers), and one panel (International Collaboration in Reactor Physics and Engineering Technology Education, organizers: Pavel Tsvetkov and Ivan Maldonado).

### ***Best Paper Award (ANS 2008 Winter Meeting)***

*By Bojan Petrovic*

Based on the scores provided during the paper review process, selection was narrowed down to three papers to be considered for the RPD Best Paper Award at the ANS 2008 Winter Meeting. A panel of judges attended the presentations, and selected the paper entitled "Thermal Feedback Transient Analysis of a Pebble Fuel Based on the Two-Temperature Homogenized Model," by Nam Zin Cho, Hui Yu, and Jong Woon Kim (KAIST). Congratulations to the authors and appreciation to the judges!

### **ANS 2009 Annual Meeting, Atlanta, GA**

*By Fausto Franceschini*

Please plan to attend the upcoming ANS 2009 Annual Meeting in Atlanta (June 14-18), and RPD sessions in particular. We have a total of 42 papers in 5 sessions: a favorable response overall and even more so in light of two "competing"

meetings scheduled in April and May (ANFM IV and M&C 2009). In addition to our standing sessions (Reactor Physics General – 6 papers, Reactor Analysis Methods – 9 papers in 2 sessions, and Reactor Physics Design, Validation and Operating Experience – 6 papers), we will have two special sessions, Advances in Small and Medium Sized Reactor Designs (organizers Youssef Shatilla and Pavel Hejzlar – 16 papers in 3 sessions and a great success for a topic of strong interest), and Recent Progress and Applications of Resonance Calculation Methods (organizer: Akio Yamamoto – 5 papers). Thanks and congratulations to the session organizers for their brilliant work.

### **ANS 2009 Winter Meeting, Washington, DC**

*By Fausto Franceschini*

Get ready! Submission of summaries will be possible starting May 1, with a deadline of June 12. There will be a number of RPD sessions that you may consider submitting to, including our standing sessions (Reactor Physics General, Reactor Analysis Methods, and Reactor Physics Design, Validation and Operating Experience) and special sessions (Fuel Isotopic Benchmarks and Applications to Code Validation, Advanced Burnable Poison Designs and Analysis Methods, Validation of Advanced Depletion Approaches for High-Temperature Gas-Cooled Reactor Fuel Designs, plus the panel Experiences with International Collaborations in Nuclear Engineering Research and Educational Exchanges). Reviewers will be needed as well (and greatly appreciated). If you would like to be added to the RPD list of reviewers please send your request to Fausto Franceschini at: [FranceF@westinghouse.com](mailto:FranceF@westinghouse.com).

### **Special Sessions at Upcoming ANS Meetings**

*By Fausto Franceschini*

Please consider organizing a special session or panel at one of the upcoming ANS meetings, such as the 2010 ANS Annual Meeting in San Diego. Timely special sessions and panels on topics of interest to academia and industry, with good quality contributions, have kept RPD one of the most active and relevant divisions.

### **Participation in Program Committee Activities**

*By Fausto Franceschini*

The success of our division is due to active involvement of its members. We would like to encourage you to continue to contribute by submitting technical papers, organizing special sessions, reviewing papers, chairing sessions, and as members of the Program Committee and RPD governance in general.

### **Advances in Nuclear Fuel Management (ANFM-IV) Conference – Hilton Head Island, SC, April 12 – 15, 2009**

*By Ivan Maldonado, ANFM-IV TPC Co-Chair*



The ANFM-IV conference was once again a resounding success in large part to the strong support from within the RPD leadership provided to the organization and technical committee. The photo included shows the “relieved” TPC Co-Chairs; Ivan Maldonado and Atul Karve alongside Dave Kropaczek (Past ANFM-IV Chair and Advisor, and former RPD Chair). In particular, we highlight and recognize the monumental support provided by our current RPD Chair, Jeff Bradfute, who served as the Arrangements Chair, but in practice helped this meeting be successful on many fronts. Thank you, Jeff!

The meeting led off with enlightening and entertaining plenary sessions provided by Kurt Edsinger (EPRI), Paul Turinsky (NC State), Kord Smith (Studsvik), and Jim Malone (Exelon). The included “program-at-a-glance” helps us recognize the many session organizers and chairs who supported this conference, while it also provides an excellent overview of the 28 technical sessions covered in 4 parallel tracks over 3 days, which included; 112 papers, 3 technical panels (“World Perspective on Nuclear Fuel Management Needs,” “Adequacy of Methods for Nuclear Fuel Management,” “Zero by Ten – Zero Fuel Leakers by 2010”), and a workshop on the SCALE Lattice

Physics organized and provided by Mark DeHart and Steve Bowman from ORNL.

All in all, the meeting attracted more than 200 registered participants and their guests and the most common congratulatory remark was: “why

do you folks not have this meeting more often?!” The finances of this meeting were equally successful with solid profits expected to go toward the local and national ANS sponsoring sections and divisions, including RPD.

SUNDAY				
10:00 - 3:30 PM	Golf Outing (Sponsored by South Carolina Electric & Gas)			
3:00 - 6:30 PM	Registration			
6:00 - 8:00 PM	Welcome Reception - Courtyard (Sponsored by AREVA)			
MONDAY				
Promenade 2	Promenade 3	Promenade 4	Promenade 6	
6:30 AM - 4:00 PM	Registration - Admiral's Landing			
7:00 - 8:00 AM	Speaker's Breakfast (Continental) - Promenade 5 Porch			
8:00 - 09:40 AM	Guest Tour of Historic Beaufort, SC			
9:40 - 10:30 AM	Opening Session - Commodore Hall			
10:00 - 12:05 PM	Innovative Core Loading Strategies and Methods Chair: Juan-Luis François	High Enrichment >5wt% UO <sub>2</sub> Studies Chairs: Masatoshi Yamasaki, Dale Lancaster	Validation of Core Analysis Tools for Fuel Management I Chair: Scott Palmitag	Management, Design, and Operation Issues of Advanced Reactor Fuels Chair: Ed Pilat
12:05 - 04:00 PM	Break			
4:00 - 06:55 PM	PANEL Discussion - "World Perspective On Nuclear Fuel Management Needs" Chair: John Sifers	Automated and Interactive Fuel Management Design and Optimization Tools I Chair: Robb Borland	Fuel Cycle Core Design for Advanced Reactor Concepts Chair: Brian Moore	Simulation and Study of Advanced Nuclear Fuel Cycles. Chair: Mehdi Asgari
7:30 - 10:00 PM	Theme Dinner - The Shorehouse (Sponsored by Studsvik)			
TUESDAY				
Promenade 2	Promenade 3	Promenade 4	Promenade 6	
7:00 AM - 4:00 PM	Registration - Admiral's Landing			
7:00 - 8:00 AM	Speaker's Breakfast (Continental) - Promenade 5 Porch			
8:00 - 09:40 AM	PANEL Discussion - "Adequacy of Methods for Nuclear Fuel Management" Chair: Dmitry Paramonov	Addressing Practical Design Constraints On Fuel Management Chair: Art Digiovine	Generation-IV Design Concepts Chair: Michael Todosev	Advanced Fuel Assembly and Burnable Absorber Designs Chair: Mark DeHart
9:40 - 10:30 AM	Coffee Break (Sponsored by Nuclear Safety Associates)			
10:00 - 12:05 PM	Generation of Cross Section Libraries and Whole Core Transport Calculations Chair: Joel Rhodes	Model Comparisons Against Measured Reactor Power Data Chair: Steve Bowman	Validation of Core Analysis Tools for Fuel Management II Chair: Bob St.Clair	Experiences and Advances In On-Line Core Monitoring Chair: Geoffrey G Pihl
12:05 - 04:00 PM	Break			
4:00 - 06:55 PM	PANEL Discussion - "Zero By Ten - Zero fuel leakers by 2010" Chair: John Schardt	Automated and Interactive Fuel Management Design and Optimization Tools II Chair: Robb Borland	Fuel and Core Design Based On Thorium Cycles Chairs: Peter Boczar, Juan-Luis François	Nodal and Lattice Physics Methods Chairs: Akio Yamamoto, Brian Moore
7:00 - 07:30 PM	Cocktails - Admiral's Landing			
7:30 - 10:00 PM	Banquet - Commodore Hall (Sponsored by Westinghouse)			
WEDNESDAY				
Promenade 2	Promenade 3	Promenade 4	Promenade 6	
7:00 - 8:00 AM	Registration- Admiral's Landing			
7:00 - 8:00 AM	Speaker's Breakfast (Continental) - Promenade 5 Porch			
8:00 - 09:40 AM	MOX Utilization in Reactors Chairs: Andrew Worrall, Ron Ellis	Research Reactor Topics -- Fuel Management Practices Chair: Trent Primm	Extended Fuel Cycles and Economic Analysis Chair: Ed Pulver	Utilization of Zero Power Physics Tests and Core Follow Data to Enhance Core Simulation Fidelity Chair: Alain Santamarina
9:40 - 10:30 AM	Coffee Break (Sponsored by NETZSCH Instruments)			
10:00 - 12:05 PM	Advances in Reactor Stability Chair: Jeff Borkowski	Monte Carlo based Depletion and Full Core Analysis: New Developments and Issues Chair: Bojan Petrovic	Nuclear Data Needs to Enhance Core Simulation Fidelity Chair: Russ Mosteller	
12:05 - 1:00 PM	Break			
1:00 - 2:40 PM			Scale Lattice Physics Workshop Chair: Mark DeHart	
2:40 - 3:00 PM	Coffee Break (Sponsored by EPRI)			
3:00 - 5:00 PM			Scale Lattice Physics Workshop Continued	
5:00 PM	Meeting Adjourned			

### ANFM-IV Program At-A-Glance

#### PHYSOR 2010 “Advances in Reactor Physics to Power the Nuclear Renaissance” – Pittsburgh, PA May 9 – 14, 2010

By Vefa N. Kucukboyaci, Organizing Committee

The next PHYSOR Topical Meeting will be held in Pittsburgh the week of May 9-14, 2010. In light of the nuclear renaissance, PHYSOR 2010 aims to provide a platform for international experts to exchange ideas and latest developments in reactor physics and related nuclear technologies. This conference is sponsored by the American Nuclear Society (ANS) Reactor Physics Division and co-sponsored by the ANS Mathematics and

Computation Division and the American Society of Mechanical Engineers (ASME).

'Call for Papers' for PHYSOR 2010 will be distributed via e-mail in April and advertised in an upcoming Issue of Nuclear News. Opening for paper submissions is planned for September 1, 2009. Note that authors will be required to submit Full Papers; abstracts and summaries will not be accepted for submission.

Important deadlines for the conference are:  
September 2009, full papers submission opens;  
 December 2009, notification of acceptance;  
 February 2010, final paper deadline;  
 March 2010, early registration deadline.

If you would like to be part of the reviewer committee, or would like to contribute to the technical program, please contact us at [info@physor2010.org](mailto:info@physor2010.org) or visit the conference web site (<http://physor2010.org>) where updated information on the conference and the technical program is posted.

### RPD Financial Report

*By Ivan Maldonado, RPD Treasurer*

The Reactor Physics Division continues to enjoy a healthy balance sheet this year, with an obvious focus upon primarily supporting students. As the enclosed table shows, our end of year balance sheet in 2008 was \$28,493. As in the past, this is the result of continued low operating expenses for RPD, excellent participation in ANS national meetings by RPD members and the associated support provided from ANS Headquarters, a self-sustaining scholarship fund and, a growing membership and associated allocation.

Reactor Physics Division Budget (2008)	TWELVE MONTHS ACTUAL 2008
CURRENT YEAR MEMBER ALLOCATION	3434
CARRY FORWARD, PRIOR YEAR	29059
DIVISION INCOME /OTHER	0
<b>TOTAL BUDGET FUNDS</b>	<b>32493</b>
<b>BUDGET EXPENSES</b>	
NEWSLETTERS	0
AWARDS, PLAQUES	0
NATIONAL MEETING COSTS	0
DIVISION OFFICER EXPENSE	0
STUDENT SUPPORT	4000
SCHOLARSHIP/NEED FUNDING	0
OTHER EXPENSES	0
<b>TOTAL EXPENSES</b>	<b>4000</b>
<b>EXCESS (DEFICIENCY) OF BUDGET FUNDS OVER EXPENSE</b>	<b>28493</b>

2008 - 2009 REACTOR PHYSICS DIVISION OFFICERS		
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(Updated for Annual Meeting 2009, Atlanta, GA)**

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TBD

2006/2009	2007/2010	2008/2011
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