



Reactor Physics Division
American Nuclear Society
The Omni Shoreham Hotel – Washington, DC
Sunday, October 30, 2011

4:00 PM to 6:00 PM - East Parlor #200

The meeting was called to order by Benoit Forget (Division Chair) at 4:00 pm. Prof. Forget asked all attendees to introduce themselves and circulated a sign-up sheet for attendance (see Attachment 1). The meeting agenda was also provided to all participants (see Attachment 2). Attachment 3 contains a summary of the RPD Schedule at the ANS 2011 Winter Meeting and a current list of the RPD officers and EC. Prof Forget introduced special visitor ANS National President Eric Loewen who provided an address to the RPD EC Meeting attendees.

He presented a summary of the ANS HQ search for a new executive director. In the nationwide search, 15 individuals were qualified, and this number will be reduced to 5. The qualified applicants will be at the President's Reception at the ANS 2011 Winter Meeting. At the upcoming ANS Board Meeting on Wednesday, November 2, a vote will be conducted on the search applicants.

Eric Loewen announced his willingness to participate in the upcoming PHYSOR 2012 Reactor Physics Topical Meeting, April 15-20, 2012, in Knoxville, TN. He proposed that he would present a recent Top Fuel paper if at PHYSOR 2012. (Due to scheduling circumstances, it was not possible for him to be at PHYSOR 2012.)

The minutes of the ANS 2011 Annual Meeting RPD EC Meeting were distributed prior to this meeting, and copies were distributed to attendees who required hard copies.

Mark DeHart presented the RPD 2012 budget, which is included as Attachment 4.

There was discussion as to whether RPD Newsletters should be prepared and distributed following the June and October/November RPD EC Meetings (in conjunction with the ANS National Annual and Winter Meetings), instead of prior to the RPD EC Meetings. There was general agreement and consensus on this.

Mark DeHart and others discussed the situation of the RPD website. It is desired that changes should be made to include changes in technology, such as a counter/meter to determine and count who visits and reads materials on the RPD website.

Two students, Vanessa Sanders (General Chair – Program) and Sherry Faye (General Chair – Logistics), both from UNLV, gave an update on the upcoming 2012 ANS Students Conference for April 12-15, 2012, in Las Vegas. Attachment 5 provides a summary of the ANS 2012 Student Conference. They discussed the highlights of the conference: technical sessions, career fair, interviews, workshops, tours, and social

networking. The tours will include NTS, museum, and the UNLV campus. There will be an ATR workshop. The conference will be held at the Alexis Park Hotel.

The topic of sponsorship was raised. The cost per student is \$432, but sponsorship covers a lot. They are looking for judges and session chairs from the ANS professional divisions. There was discussion about a ¼ page ad for the student conference program. Mark DeHart will draft something for their program.

Mark DeHart gave a presentation on his RPD 2012 budget. He will estimate the RPD profit share from PHYSOR 2012. The JB Committee Workshop was held on October 29, at 2/3 of the planned budget. The RPD account has \$82,000.00 at the end of the year.

Next, discussion was on endowed scholarship. Glenn S mentioned there were 10 participants. There were suggestions that RPD consider sponsoring receptions and travel. A question was raised that the bill in the future should be split with MCD if they concur.

Students who present papers should be targeted, encouraging students to join ANS. Mark DeHart made a motion that \$500 be given towards students for the ANS receptions. The cost is \$50 per student ticket. It was suggested that 20 tickets be made available; MCD does a similar level of sponsorship. Mark DeHart made the motion, and Blair Bromley seconded it.

Ivan Maldonado and the current officers were on the RPD nominating committee. They are charged with the selection of people to run for the RPD executive committee.

Alireza Haghghat then discussed the RPD website. Payments for the website, to Hanna, were discussed. He will contact Hanna; the website needs updating. C. Rabiti proposed establishing a blog on the RPD website. Alireza proposed links to RPD ex comm members' websites and pictures. During the discussion, questions were made as to who can access the webpage software, etc. Consensus was that Hanna should still do the major updates. Discussion then was on what were the options. Mark DeHart proposed that we discontinue using Hanna on the website and allow a RPD representative to access the website and volunteer to perform the updates. Fausto mentioned that he does have access to the website. Consensus was that things should be resolved with Hanna on the website issues. It was moved that we pay her through this year and then have her come in to update RPD EC.

The minutes of the RPD PC Meeting at the ANS 2011 Winter Meeting are included in Attachment 6. Henry Greebler Award went to Benoit Forget's student. Benoit announced that Fausto is leaving leading the RPD Program Committee. Alex S. will be taking over this role. The current meeting (October 2011) has 47 papers, which is down from 107 RPD papers during the past ANS 2011 Annual Meeting. Discussions were then held on the sessions, special sessions, and panels for the ANS 2012 Annual Meeting. Fausto will circulate information on the special sessions and further extensions for RPD papers for the ANS 2012 Annual Meeting will be assessed. Proposals for RPD sessions

for the ANS 2012 Winter Meeting are being collected. Piero Ravetto introduced an idea for a special RPD session.

Ron Ellis gave a summary update on PHYSOR 2012, which has received all the necessary approvals. The peer review process for papers for PHYSOR 2012 is soon to be underway, and more than 300 papers are expected. With sponsorships, regular and student attendees, planned student inclusion in events, the target for expected profit for PHYSOR 2012 will be \$50K, as decided after the October 27, 2011 PHYSOR 2012 organizing committee meeting. The deadline for full paper submissions will be extended as appropriate as will the dates for registration.

Fausto talked on the topic of PHYSOR 2014 bid proposals; there are several potential bids that we know about. Three possible bids are Japan, AES, and Czech Republic. There are 2-3 other possible bids. (At PHYSOR 2012, an unofficial informational luncheon session was held in which interested potential bidders could make short presentations on their plans: Sweden, China, and Japan participated.) The RPD EC agreed on the terms of conflict of interest in the upcoming vote on the PHYSOR 2012 bid: those in organizations participating in the bid process will not be allowed to vote. This was agreed to by both the RPD PC and EC.

Dimitrios Cokinos presented an update on the work and progress of the standards committee. Attachment 7 presents a brief history of the ANS-19 Standards. A completely revised standard was released for 19.3. The release process is very slow to resolve issues and release to standard. A new standard for PWR low pressure was discussed. Nuclear News has called for comments on the standards progress. Bob St. Clair has taken over for Russ Mosteller, but now cannot continue.

The decay heat standard went out but someone in Chicago found a problem in it; the resolution is still not finished. There are five standards by ISO; NWIPS. A better IT process was suggested. Ben Forget will propose this on Wednesday, November 2.

Honors and Awards were then discussed. The Wigner Award is going to Nils Sjostrand. It will be presented to him at Chalmers University.

The 'Young Engineer Award' was revised by Blair Bromley and Dimitrios Cokinos. Blair has prepared a flier on this award. Blair and Dimitrios met at the ANS 2011 Annual Meeting to discuss the revision to the award. It was revised in the interim time and is now ready. Attachment 8 is the relevant details page for this award.

The nomination package for this award was explained. A recipient can only win once. Applicants can re-apply up until they are no longer under 39 years of age at the time of submittal. The National ANS honors and awards committee is in favor of the revised award details. There are questions as to why there is no associated monetary award. Monetary awards are often looked upon with more favor. It was suggested that perhaps RPD could pay the costs for the recipient to attend the awards banquet. There was further discussion on the merits of having a monetary amount associated with the award.

This was submitted for RPD EC acceptance. Blair made the motion on the revised award notice. RPD will pay for tickets to the awards ceremony. Benefactors will get free registration, plus preferred. The motion passed. The tax implications were not discussed at this time.

Glenn Sjoden chaired the JBC meeting. There were 10 participants. Charter to take advantage of all available benchmark information. They discussed about SINBAD and the international reactor physics benchmark data. There are holes to be filled. There is no one suppository of information. Glenn Sjoden will write a report to follow up with information plus a list and narrative. Oak Ridge offered to maintain this, between RSICC and NEA. This will help in future proposals with DOE etc. to defend or support. A bibliography and list of existing benchmarks will be included. This will be for use with codes etc.

The report on the Goals and Strategic Planning Committee Meeting was given. It was suggested that the RPD website be made more effective for the membership. Communication with the public, especially after Fukushima, needs to be improved. Ali Haghghat said the public feels that professors are to be respected more. We need to come up with different ways of saying things and supporting centers or functions. There are four centers at ANS HQ. This gets away from administrators administrating. We now have an outreach center. The center will have more in common with the rank and file. With centers, you can get more funds and money. A question was raised as to who will be hired to run these centers? Also, what is the stature of professors in media coverage and interactions?

Ivan Maldonado talked about succession planning. A two tier approach is seen, with trainee, and full chair. The program committee is possibly the most important aspect. Ali Haghghat said that whoever chairs it has to be on top of things.

For the Professional Development Committee meeting, Benoit Forget and Ali Haghghat attended.

The year 2013 will have a special session for the anniversary of nuclear fission. The information will be circulated for comments. Comments were made that the RPD website was ok.

Mark DeHart mentioned articles on Regis, from ANS HQ. Regis talked to the RPD EC about the centers that were discussed above.

Adjournment

Benoit Forget moved to adjourn the meeting; this motion was seconded by Ron Ellis. It passed unanimously. The meeting was ended at 6:00 pm. Photographs taken at the end of this ANS RPD EC meeting are presented in Attachment 9.

**Attachment 1
Signup Sheet**

2011 ANS WINTER MTG.
RPPD - Executive Committee Mtg (Attendance)
WASHINGTON, DC.

<u>NAME</u>	<u>AFFILIATION</u>	<u>E-MAIL</u>
BEN FORGET	MIT	BFORGET@MIT.EDU
Dave Nigg	INL	dwn@inl.gov
MARK DEHART	INL	mark.dehart@inl.gov
Akiyo YAMAMOTO	Nagoya Univ.	a-yamamoto@nucl.nagoya-u.ac.jp
BLAIR BROMLEY	AEECL-CHALK RIVER CLASS	bromleyb@aecl.ca
PIERO RAVETTO	POLITECNICO TORINO	pietro.ravetto@polito.it
ERIC LOEWEN		Eric.Loewen@ge.com
Regis Matzie	WESTINGHOUSE	matzier@westinghouse.com
RON ELLIS	ORNL	ellisrj@ornl.gov
Alex Stanculescu	INL	alexander.stanculescu@inl.gov
Cristian Rabiti	INL	crabiti@inl.gov
Alvez Hight	Virginia Tech	hight@vt.edu
Fausto Franceschini	W	Fraunce@westinghouse.com
Glen Sjoden	GA Tech	sjoden@gatech.edu

Attachment 2**Meeting Agenda****Reactor Physics Division Executive Committee Meeting****Sunday, October 30, 2011, 4:00 - 6:00 PM****Washington, DC****AGENDA**

1. Secretary's Report – Ron Ellis 5 min
 - a. Approval of minutes, June 2011 meeting (Hollywood, FL)
 - b. RPD Newsletter Status/Schedule
2. Treasurer's Report – Mark DeHart 10 min
 - a. Student Support (National Meetings and Student Conference)
 - b. 2011 Budget Status (payments, income, pending items, etc.)
 - c. Wigner memorial fund
 - d. 2012 Budget Proposal
3. 2011 Nominating/Elections Committee Report – Ivan Maldonado 5 min
4. RPD Website Update – Ali Haghghat 10 min
 - a. Content Updates
 - b. Payments
5. Scholarship Committee - Jess Gehin 5 min
6. Program Committee Updates - Fausto Franceschini 15 min
 - a. 2012 Annual Meeting (Chicago, IL)
 - b. 2012 Winter Meeting (San Diego, CA)
 - c. 2013 Annual Meeting (Atlanta, GA)
7. Topical Meetings (Updates, Requests for Sponsorship) 10 min
 - a. PHYSOR 2012 (Knoxville, TN) – Jess Gehin, Ivan Maldonado, Ron Ellis
 - b. PHYSOR 2014 Planning - Fausto Franceschini
8. Standards Committee Update - Dimitrios Cokinos 5 min
9. Honors and Awards Committee Update - Dimitrios Cokinos 10 min
 - a. Wigner Award
 - b. ANS Fellows
 - c. Update on Categorization of Division Administered Awards
10. Student Conference Update – (UNLV) 5 min
11. Joint Benchmark Committee Report - Mark DeHart 5 min
12. Goals and Strategic Planning Committee – Ali Haghghat 5 min
13. Professional Divisions 10 min
 - a. PDC Update (workshop update by Ben and Ali)
 - b. Liaison report (Regis Matzie – PDC Liaison)
14. New Business 10 min
 - a. Early Career Award
15. Adjournment

Attachment 3**Reactor Physics Division Schedule**

Honors and Awards

SUNDAY, 10:00 A.M. – 11:00 A.M. Location: Room #204

Goals and Planning

SUNDAY, 1:00 P.M. – 2:00 P.M. Location: Room #204

Program

SUNDAY, 2:00 P.M. – 4:00 P.M. Location: Room #204

Executive

SUNDAY, 4:00 P.M. – 6:00 P.M. Location: Room #204

RPD Officer List (Annual Meeting 2011 – Washington, DC)

Name	Title	Email
Ben Forget	Chair	bforget@mit.edu
Ali Haghighat	Vice Chair	haghighat@vt.edu
Mark DeHart	Treasurer	Mark.DeHart@inl.gov
Ron Ellis	Secretary	ellisrj@ornl.gov
Fausto Franceschini	Technical Program	francef@westinghouse.com
Dimitri Cokinos	Standards/Honors & Awards	cokinos@bnl.gov
Jess Gehin	Scholarships/Goals & Membership	gehinc@ornl.gov
Ivan Maldonado	Past Chair	ivan.maldonado@utk.edu
Bob St Clair	Past-Past Chair	brstclai@duke-energy.com
David Griesheimer	EC 2012	grieshei@bettis.gov
Dumitru Serghiuta	EC 2012	dumitru.serghiuta@cnsccsn.gc.ca
Glen Sjoden	EC 2012	sjoden@gatech.edu
Robb Borland	EC 2013	rjborland@firstenergycorp.com
Tunc Aldemir	EC 2013	aldemir.1@osu.edu
Akio Yamamoto	EC 2013	a-yamamoto@nucl.nagoya-u.ac.jp
Blair Bromley	EC 2013	bromleyb@aecl.ca
David Nigg	EC 2014	David.Nigg@inl.gov
Mohamed Ouisloumen	EC 2014	ouislom@westinghouse.com
Massimo Salvatores	EC 2014	massimo.salvatores@cea.fr
Ugur Merturek	EC 2014	mertureku@ornl.gov

Attachment 4 RPD Division Budget

AMERICAN NUCLEAR SOCIETY
HISTORICAL INCOME/EXPENSES & 2012 BUDGET

Washington, DC, Oct. 30th, 2011
Prepared by Mark DeHart, Treasurer, RPD

							EIGHT	Notes	PROPOSED	Notes
	ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL	MONTHS		BUDGET	
	2005	2006	2007	2008	2009	2010	2011	2011	2012	
REACTOR PHYSICS										
BUDGET FUNDS										
CURRENT YEAR MEMBER ALLOC.	1492	1589	1651	3434	3500	3586	3586	3846	3920	(1)
CARRY FORWARD, PRIOR YEAR	9505	9483	31345	29059	29553	34628	65800	65800	58646	
DIVISION INCOME /OTHER	1430	24388	-3937	1060	10219	30624	0	0	25000	(2)
TOTAL BUDGET FUNDS	12427	35460	29059	33553	43272	68838	69386	69646	87566	
BUDGET EXPENSES										
NEWSLETTERS		115		0	27					
AWARDS, PLAQUES	73			0	76					
NATIONAL MEETING COSTS	246			0	50					
DIVISION OFFICER EXPENSE				0	0					
STUDENT SUPPORT	2000	4000		4000	7000	3000	3000	1000	3500	(3)
SCHOLARSHIP/NEED FUNDING								10000		(4)
WEB MAINTENANCE									1000	(5)
OTHER EXPENSES	625				1491	38			400	(6)
TOTAL EXPENSES	2944	4115	0	4000	8644	3038	3000	11000	4900	
EXCESS (DEFICIENCY) OF BUDGET FUNDS OVER EXPENSE	9483	31345	29059	29553	34628	65800	66386	58646	82666	

- (1) Extrapolated from previous 4 years
(2) Projected Physor 2012 income
(3) Per vote at June meeting, \$2500 for student conference (up from \$2000), plus \$500/national meeting
(4) Contribution to Dr. Weinberg's Memorial Fund in 2011
(5) \$500 for 2011 plus \$500 for 2012
(6) Support for Joint Benchmark Committee workshop

ENDOWED SCHOLARSHIP (HENRY/GREEBLER)
Balance 01/01/11
Plus 8 Months Interest
Plus Receipts

108,942
3,341
0

Attachment 5
Status Update for Upcoming 2012 ANS Student Conference

UNIVERSITY OF NEVADA, LAS VEGAS
APRIL 12-15, 2012

ANS 2012 Student Conference

“Nuclear Science and Technology: Past, Present and Future”



CONFERENCE HIGHLIGHTS

TECHNICAL SESSIONS
 We have the ability of holding up to seven concurrent technical sessions with minimal conflicting events, offering more students an opportunity to share their research.

ATOMIC AGES SOCIAL
 Meet up with old friends and make new connections at the 1950s themed rooftop social on Thursday evening. Dance to your favorite cold war tunes or pose for a photo in 1950s garb!

TOURS
 Tours will be available of the Nevada National Security Site, Atomic Testing Museum, Varian Medical Systems and the UNLV science & engineering laboratories.

ORAL HISTORY ROOM
 Guests are invited to take a step back in time by viewing photographs and video clips collected from the weapons testing era and shared by the Nevada Test Site Oral History Project.

About the Conference

The ANS Student Section at the University of Nevada, Las Vegas is pleased to host the 2012 ANS Student Conference in fabulous Las Vegas, Nevada! Hosting the ANS Student Conference for the first time gives many nuclear science and engineering students their first opportunity to experience our unique facilities in Nevada. We are sure that we will deliver an exciting and technically diverse conference that should not be missed!

ANS Student Section at UNLV

The UNLV ANS Student Section was founded in 2003 as the university was starting up its nuclear engineering and radiochemistry programs. Student section members are drawn from the three prestigious and fast growing nuclear based programs; materials and nuclear engineering (M.S.), radiochemistry (Ph.D.), and health physics (B.S. and M.S.). The composition of student members from the three degree programs gives the UNLV ANS student section its diversity and resources that make it so awesome!

Conference Details

Attendance to student conferences has been steadily increasing in the past several years. Due to this trend, we estimate an attendance upwards of 750. Guests accommodations will be available at the all suite Alexis Park Resort. The property is a non-gaming resort on lushly landscaped grounds with 3 sparkling pools. Conference events will be held at the UNLV Student Union which offers nearly 30,000 square feet of flexible meeting space.



Program Details

Technical presentations: the main focus of the student conference. General areas that abstracts will be drawn from include:

- Nuclear Engineering
- Nuclear Science
- Radiochemistry
- Nuclear Policy
- Fuel Cycle
- Outreach

Career fair: offered to promote networking between students and professionals. Private interview rooms will be offered to top level sponsors. Dinner will be hosted in the career fair on Friday night, giving all attendees time to socialize after a day of technical sessions.

Poster session: held on Saturday afternoon after the career fair closes, offering professionals a chance to interact with students that are presenting posters. The posters will be set up first thing Saturday morning so attendees can view them throughout the day, with the opportunity to ask questions during the poster presentation session later in the afternoon.

Workshops: both technical and non-technical workshops will be offered to all conference attendees.



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How to Get Involved

2012 Sponsorship Opportunities

Nucleus (\$25,000+)

- One guest speaker
- Three additional free registrations
- Premium career fair booth
- Priority interview space
- One full page ad in conference program
- Banners/ads at all major events
- Advance access to resume book
- Logo in conference program
- Logo on one conference giveaway
- Logo on conference t-shirt

Proton (\$15,000+)

- Two additional free registrations
- Choice career fair booth
- Priority interview space
- One full page ad in conference program
- Limited ad space at major events
- Advance access to resume book
- Logo in conference program
- Logo on conference t-shirt

Neutron (\$10,000+)

- Two additional free registrations
- One full page ad in conference program
- Advance access to resume book
- Logo in conference program
- Logo on conference t-shirt

Electron (\$5,000+)

- One additional free registration
- One half page ad in conference program
- Logo in conference program
- Logo on conference t-shirt

Neutrino (\$2,500+)

- One 1/4 page ad in conference program

Career Fair Booth Only (\$1,500)

All sponsorship levels \$2,500 & up include:

- One free registration (\$250 value)
- Career fair booth
- Linked logo on the conference website

Other Opportunities

Sponsorship

- Custom ad space in the conference program and other conference material
- Sponsorship of specific conference events and functions such as tours, socials and workshops

Technical

- Volunteer to be a technical session judge
- Volunteer to chair a technical session
- Offer or participate in a workshop

For general conference information,

please contact:

Vanessa Sanders

General Chair: Program

vsndrs1@aol.com

(321) 536-3540



For sponsorship information,

please contact:

Sherry Faye

General Chair: Logistics

sherryafaye@gmail.com

(315) 415-9629

Attachment #6

**Minutes of the ANS RPD PC Meeting
(October 30, 2011, 2:00 – 4:00 PM)
Omni Shoreham Hotel, Washington, DC**

The minutes of the last ANS RPD PC meeting (from the ANS 2011 Annual Meeting in Florida) will be voted by email as it was too late. The best papers from June 2011 were discussed. There are 47 RPD papers in the current meeting. The sessions will all be in the Palladium Room, and will last until 6:00 PM.

There is a special session on Tuesday (Mark DeHart). There are three sessions on Wednesday, November 2. There will be a special session on terrestrial and space reactors. There is a tutorial on the code VESTA on Thursday, November 3.

For the ANS 2011 Annual meeting in June 2011, there were 107 RPD papers. By comparison, there are 47 RPD papers in this current meeting; 20 of the papers are in the special sessions. Blair Bromley discussed the judging of best paper candidates for the current sessions: there are four papers competing for the best paper. Two of the papers are in the Tuesday AM session and two of the papers are on Wednesday afternoon.

The RPD special sessions for the ANS 2012 Annual Meeting were discussed:

1. Initial experience with ENDF/B-VII nuclear data
2. ENDF/B-VII data evaluation (Luiz Leal, et al)
3. Reduced enrichment (RERTR) (Mark DeHart)
4. Spectrum and dosimetry
5. Hybrid Monte Carlo methods for reactors (John Wagner and Hany Abdel-Khalik)
6. Panel by Dave on LWR core design

For the ANS 2012 Winter Meeting, the name of the special session will be decided within the next few months. An electronic form was sent out. Alain Santamarina suggested a few topics. Some topics include experimental validation for future systems, and feedback from Fukushima. Blair Bromley mentioned something on small reactors of interest to aerospace too. The topics of new clads and new fuel material, with relevance to Fukushima issues, are of interest. Also, monitoring spent fuel pools etc is of relevance.

For the ANS 2012 Winter Meeting, Ali Haghghat and Fausto Franceschini will consider. Mark DeHart mentioned the topic of reactor physics for SMR, as a panel or a session. Fausto is assembling a list of volunteers for session chairs for the June 2012 ANS Annual Meeting.

Ron Ellis presented a summary update on PHYSOR 2012.

A summary update was given on Global 2011 which will be December 11-15 2011 in Makahari, Tokyo. Chairs will be assigned in the next few weeks. There are 200 papers so far, and there will be a poster session.

The topic of PHYSOR 2014 was then discussed. The bid process will be completed in Chicago at the June 2012 Annual Meeting. There have been several responses from several organizations thus far. It will be a competitive bid. Three bids have been made and there may be a further 2-3 bid proposals, spanning Europe, Asia, and South America.

Under other business, Blair Bromley discussed writing up a proposal on the RPD Young Members Award. He discussed it and circulated a one-pager. The chair of the honors and awards committee will seek nominations. RPD members are encouraged to contact Blair Bromley or Dimitrios Cokinos. Thomas Sutton suggested that we should also encourage nominating to ANS an award of the same type.

A proposal was made by M. Salvatores commemorating John Rawlings, as either a session or panel.

The last item of the RPD PC meeting, is the announcement that Fausto Franceschini is stepping down from chairing the RPD program committee. All in attendance offered their thanks to Fausto for all his hard work. His successor was found: Alex Stanculescu from IAEA via INL. Alex has a background in reactor physics and experience in Rome, CEA, etc. He was at IAEA for 12 years.

Ben Forget led the applause for Alex, and for Fausto.

The RPD PC meeting was adjourned.

Attachment 7

A BRIEF HISTORY OF ANS-19 STANDARDS

ANS-19 was created in 1972 under the auspices of the American Nuclear Society and in accordance with the requirements for technical standardization set forth by the American National Standards Institute (ANSI). ANS-19 is part of a broad standards program that covers most technical areas of nuclear reactor technology.

ANS-19, Physics of Reactor Design, is an active organization and operates under the Consensus Committee N17 which in turn reports to the ANS Standards Board. The purpose of ANS-19 was to develop standards for reactor design as the field of nuclear technology in the 1970s had reached a certain level of maturity.

The founding membership of ANS-19 included well-known names in reactor physics that came from national labs, universities, reactor vendors, nuclear utilities and independent consultants.

Paul Greebler (General Electric) was the first chairman of ANS-19. It was during Greebler's leadership that the following new standards were initiated (asterisks indicate active standards and names in bold indicate current Working Group chairs):

*ANS-19.1, "Nuclear Data Sets for Reactor Design Calculations" – First published in 1975 under Working Group Chair Robert Dannels; **Robert Little**

*ANS-19.2, "A Glossary of Reactor Physics Terms" – Published in 1978 for trial use under Working Group Chair Darrell Newman, and dropped a few years later

*ANS-19.3, "The Determination of Neutron Reaction Rate Distributions and Reactivity of Nuclear Reactors" – First published in 1975 under Working Group Chair Abraham Weitzberg; **Benjamin Rouben**

NOTE: The title of the last revision (2011) of ANS-19.3 is "Steady State Neutronic Methods for Power Reactor Analysis" – 2011 **Benjamin Rouben**

*ANS-19.3.4, "Determination of Thermal Energy Generation Rate in Nuclear Reactors" – First published in 1976 under Working Group Chair Paul Greebler; **Dimitrios Cokinos**, Acting Chair

*ANS-19.4, "Guide for Acquisition and Documentation of Reference Power Reactor Physics Measurements for Nuclear Analysis Verification" – First published in 1976 under Working Group Chair Harry Graves; **Dimitrios Cokinos**, Acting Chair

*ANS-19.5, "Requirements for Reference Reactor Physics Measurements" – First published in 1978 under Working Group Chair Phillip Hemmig; **Dimitrios Cokinos**, Acting Chair

Attachment 8
RPD Early Career Reactor Physicist Award



American Nuclear Society (ANS)
Reactor Physics Division (RPD)
2011-2012
<http://rpd.ans.org/>



Early Career Reactor Physicist Award

A Reactor Physics Division (RPD) Award – Brief Description

1. **Eligibility Requirements:**
 - Must have made significant contributions and high-quality publications in the field of reactor physics.
 - Must have been an RPD member in good standing for the last 3 or more years.
 - Must be 39 years of age, or younger, at the time that the nomination is submitted.

2. **Nomination Package Requirements:**
 - Candidate must demonstrate that he/she has done technical work in the area of reactor physics that is meaningful, important, new, and original.
 - There must be at least 3 nomination letters, including the lead sponsor's (but no more than 7) in support of the candidate.

3. **Selection of Award Winner**
 - RPD Honors and Awards Committee selects the winner.
 - One award may be given per year. One person receives the award, and may receive the award only once. An unsuccessful nominee may re-apply.

4. **Special Benefits Associated with Award**
 - The winning candidate will receive a certificate and a letter signed by the Chair of RPD recognizing their achievement of distinction.
 - The RPD will look into the possibility of giving the winning candidate a discount on their registration fees for attending the ANS Conference, in order to attend the ANS Awards Ceremony. The winning candidate may be offered the option to pay the student rate instead of the ANS Young Member or ANS Regular Member rate.

Attachment 9

Photographs (courtesy of Blair Bromley) from the RPD Executive Committee Meeting (October 30, 2011, in Washington, DC)

