



PHYSOR 2000 May 7-11, 2000
**2000 ANS International Topical Meeting on Advances in Reactor
 Physics and Mathematics and Computation into the Next Millennium**
 Westin William Penn Hotel, Pittsburgh, PA, USA
<http://ans-pgh.commerce.wec.com/rp2000.htm>
rp2000@cnfd.pgh.wec.com

Over 250 papers will review recent developments in reactor physics and computational methods and applications for nuclear power and associated technologies. Meeting participants represent laboratories, government facilities, academia, utilities, and private industries located in 27 countries around the world. A special session combining a mixer, poster presentations, and exhibits is being planned for Wednesday afternoon. Vendors in our key industries are being invited to participate in the exhibit.

Preliminary Program (*Identifies Special Session)

<p><u>Sunday May 7, 2000</u> 2:00-6:00 PM Registration 6:00-8:00 PM Reception</p> <p><u>Monday May 8, 2000, 8:00 AM – 11:00 AM</u> 8:00- 9:00 AM Registration + Coffee 9:00-11:00 AM OPENING PLENARY: Physics - The Foundation of Research; Research - The Foundation of Physics</p> <p><u>Monday May 8, 2000, 1:00 PM – 5:35 PM</u> Computational Methods for Criticality Safety Criticality Safety and Burnup Credit *Plutonium Disposition and Actinide Burners I & II Transport Theory for Reactor Simulation Mathematical and Numerical Methods for Transport Computations Reactor Analysis I Cross Section Evaluation and Libraries Computational Methods for Reactor Physics I & II Neutronics - Thermal Hydraulics Development Neutronics - Thermal Hydraulics Analysis</p> <p>Dinner/River Cruise 7:00 PM</p> <p><u>Tuesday May 9, 2000, 8:00 AM – 11:45 AM</u> Core Loading and Burnup Optimization Core Design and Fuel Management I Accuracy of Depletion Calculations I & II Deterministic Transport Methods *Advanced Neutron Sources I *Physics of Reactor Operation and Control I & II Physics Measurements, Instrumentation and their Analysis I *Analysis of Critical Benchmark Experiments I MOX Fuel Core Analysis I *Noise Analysis and Diagnostics I</p> <p>Luncheon and Guest Speaker</p> <p><u>Tuesday May 9, 2000, 2:00 PM – 6:30 PM</u> Core Design and Fuel Management II Neutronics - Thermal Hydraulics Benchmark Analysis *Advanced Neutron Sources II Code Validation for Fast Reactors</p>	<p><u>Tuesday May 9, 2000, 2:00 PM– 6:30 PM</u> (cont'd) *Analysis of Critical Benchmark Experiments II *Noise Analysis and Diagnostics II * Modeling & Simulation under the DOE/ASCI Program</p> <p><u>Wednesday May 10, 2000, 8:00 AM – 12:10 PM</u> Monte Carlo Methods I & II Reactor Dynamics and Safety Analysis I & II MOX Fuel Core Analysis II & III Reactor Analysis II & III Physics Measurements, Instrumentation and their Analysis II & III Parallel Computing for Reactor Physics Applications Resonance Cross Sections</p> <p><u>Wednesday May 10, 2000, 1:30 PM – 6:30 PM</u> Transport Methods Physics Analysis and Core Modeling Methods, Measurements and Codes Reactor Physics General Physics Measurement, Modeling and Nuclear Data *Reactor Physics Standards *Reactor Physics Education in the New Century</p> <p>Parlor Papers and Computer Programs in Topical Areas</p> <p>2:30 PM Poster Papers / Exhibits / Mixer 7:30 PM Banquet, Guest Speaker and Awards</p> <p><u>Thursday May 11, 2000, 8:00 AM – 12:10 PM</u> Benchmarks and Validation of Codes I & II Diffusion Theory and Kinetics Coupling Methodologies for Evaluating Safety Parameters Space and Research Reactors Medical Applications Advanced Reactor Concepts and Design Nuclear Data Measurements and Models</p> <p><u>Workshops: Sunday PM, Thursday PM and Friday AM/PM</u></p> <ol style="list-style-type: none"> 1. What's New in DOORS (ORNL DORT/TORT) 2. New Capabilities in MCNP4C (LANL) 3. PENTRAN 3-D Parallel Sn (Penn State Univ. (PSU)) 4. Automated Variance Reduction with A³ MCNP for Shielding Problems (PSU)
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US AIRWAYS EXTENDS SPECIAL AIRFARE FROM US & ABROAD: Call 877-874-7687; 8:00 AM – 9:30 PM Eastern Time. Refer to **Gold File Number 33141313**. Visit the Meeting Web site above for information.

HOTEL/AIRPORT ACCESS: Airlines Transportation Company, 412-471-8900, provides limousine service departing every 30 minutes, \$12 one way and \$20 round trip, reservations not required. Port Authority Transit (PAT), 412-442-2000, provides a bus every 30 minutes between the airport and 7th and Smithfield streets downtown (2 blocks from the hotel), for a fare of \$1.95 each way.

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Dr. Mr. Ms. (Please print or type)

First _____ MI _____ Last _____

Company Name _____ Speaker

Mailing Address _____ Co-Chair

City _____ State _____ Zip Code _____ Country _____ Student

Phone _____ Fax _____ E-Mail _____

TECHNICAL REGISTRATION FEE; Full registration includes Sunday Reception, Tuesday Lunch, Wednesday Exhibit Mixer and Banquet. Each author who pays a page charge for his/her paper before February 15, 2000 will receive a complimentary registration. The first 200 to register and pay by 3/15/2000 also receive free admission to the Three Rivers Dinner Cruise. Early one-day registrants receive the special event function of the day at no additional cost. **(PURCHASE ORDERS DO NOT CONSTITUTE PAYMENT.)**

	<u>By 3/15/2000</u>		<u>After 3/15/2000</u>		<u>TOTAL</u>
	<u>Members</u>	<u>Others</u>	<u>Members</u>	<u>Others</u>	
Full Registration Fee	\$425	\$475	\$475	\$525	\$ _____
One Day Registration (circle) M T W Th	\$250	\$275	\$275	\$300	\$ _____
Retirees			\$30		\$ _____
Full-Time College Students Registration			\$25		\$ _____
Guest Registration (Continental Breakfast M-Th)			\$30 X _____		\$ _____
Reception (Sunday)			\$20 X _____		\$ _____
Three Rivers Dinner Cruise (Monday)			\$40 X _____		\$ _____
Luncheon (Tuesday)			\$25 X _____		\$ _____
Banquet (Wednesday)			\$40 X _____		\$ _____
Beaver Valley Facility Tour			\$25 X _____		\$ _____
Additional Copies of CD-ROM Proceedings			\$25 X _____		\$ _____
Sun PM - DOORS Workshop #1 X _____			Any workshop \$150 X _____		\$ _____
Thurs PM - MCNP4C Workshop #2 X _____			2 Workshops \$250 X _____		\$ _____
Fri AM - PENTRAN Workshop #3 X _____			3 Workshops \$300 X _____		\$ _____
Fri PM - Variance Reduction Workshop #4 X _____			4 Workshops \$350 X _____		\$ _____
TOTAL ENCLOSED					\$ _____

PAYMENT POLICY
All Payments Must be in US Dollars with Foreign Exchange Fees Added For Non-US Banks. A Copy of this Registration Form Must Also Accompany All Checks.

CANCELLATION POLICY
No Refund for Primary Authors. PAID Pre-registration Subject to Cancellation Fee:
Before March 31, 2000 -\$50
After April 1, 2000 -No Refunds
Substitutions Allowed

REGISTRATION

Mail To:
PHYSOR 2000 Treasurer
1640 Queens Drive
Library, PA 15129 / USA

Or FAX To:
K. Bahr: 412-374-2002

METHOD OF PAYMENT VISA MASTERCARD CHECK Payable to: **ANS PITTSBURGH Section**

Card #: _____ Expiration Date: _____

Cardholder Name: _____ Signature _____ Date _____

HOTEL ACCOMMODATIONS

(Apply Directly to Hotel)

Westin William Penn Hotel
530 William Penn Place
Pittsburgh, PA 15219-1820 / USA

Special negotiated **guaranteed** room rates are available and require advance hotel reservations before March 22, 2000.

Single Occupancy (1 or 2 persons, 1 bed):	\$115.00
Double Occupancy (2 persons, 2 beds):	\$125.00
Crown Service Level:	\$160.00
Government Rates (1 person, 1 bed):	Prevailing rate

Note: All the above rates are non-commissionable, net rates. Hotel taxes are 14.0%. Guaranteed rates valid only for reservations made for the ANS PHYSOR 2000 and expire on March 22, 2000. Guaranteed rates are available from Friday, May 5 through Sunday May 14, 2000. **Make your reservations as early as possible since interest in the meeting is high and space is limited.**

Reservations Center: Westin Voice: 412-553-5100, Westin Guest Fax: 412-553-5252 or 412-553-5239
Westin Internet: <http://www.westin.com>