

## ANNOUNCEMENT AND CALL FOR PAPERS

### ☞ **Scope and Topics**

The Twelfth International Symposium on Reactor Dosimetry will be held May 8-13, 2005 in Gatlinburg, Tennessee, USA. This Symposium is held approximately every three years to provide a forum for the interchange of state-of-the-art techniques, data bases and standardization of radiation metrology. The Symposium will be of value to those involved in reactor dosimetry, including researchers, manufacturers and representatives from industry, utilities and regulatory agencies.

This Symposium is jointly sponsored by ASTM International, the European Working Group on Reactor Dosimetry (EWGRD), and the Atomic Energy Society of Japan (AESJ). It is organized by ASTM Committee E10 on Nuclear Technology and Applications and EWGRD.

The Symposium theme is dosimetry for the assessment of irradiated reactor materials and reactor experiments, featuring radiation metrology techniques, data bases and standardization. Under this theme, papers are solicited for presentation in the following areas:

- ? Reactor surveillance and plant-life management
- ? Data evaluation, uncertainty analysis, and adjustment methods
- ? Retrospective dosimetry and decommissioning
- ? Dosimetry for assessment of reactor structural materials
- ? Neutron and gamma-ray transport calculations
- ? Dosimetry for core characterization and reactor physics
- ? Characterization of neutron and gamma-ray environments
- ? Damage correlation and exposure parameters
- ? Monitoring of irradiation experiments
- ? Nuclear data for dosimetry
- ? Benchmarking, calibrations, and standards
- ? Fusion and high-energy neutrons
- ? Advanced reactors and neutron sources
- ? Irradiation processing and testing of electronics
- ? Experimental techniques, new developments, and optical methods
- ? Dosimetry for space nuclear power

Papers in these and other areas are expected to cover such applications as fission and fusion energy research and experiments at test reactors and research reactors. The Symposium will be organized into oral and poster presentations, informal round-table workshops, and tutorials. The meeting language will be English. No translations will be provided. The Summaries, presentations, and papers cannot be of a commercial nature, and they must consist primarily of material that has not been previously published. For further information, visit the Symposium web site <http://www.reactordosimetry.com>

### ☞ **Submission of Summaries**

Prospective authors must submit a Summary with a minimum of 450 words of text. The Summary must include significant new results and may include figures, tables, and references. The Summary may be up to two pages in length and must include a clear statement of the objective, the approach, and references giving credit to previous work. The Summaries will be reviewed for suitability for this Symposium and for compliance with the required specifications. The Summaries will be printed in the final program booklet of the meeting to provide a complete record of presentations at the meeting to registrants. The Summaries must be submitted electronically by August 1, 2004, in accordance with the procedures and specifications given at the Symposium web site. However, the Summaries may be submitted as early as May 15, 2004

and may be updated as late as January 10, 2005 (if previously accepted). Acceptance letters will be issued as soon as possible after Summaries are received, but no later than October 1, 2004.

#### ✍ **Publication of the Contributed Papers**

Complete papers submitted for publication will be due at the Symposium. These will be subject to peer-review before acceptance for publication in the (on-line) Journal of ASTM International. Page limits are somewhat less restrictive than for previous Symposia in this series, because the electronic format can accommodate some additional length rather easily. Detailed requirements for submission of the papers are given at the Symposium web site. Papers in the Journal will be referenced by the major library abstracting and indexing data bases. Registrants will receive on-line access to and a complimentary CD copy of the complete set of papers accepted for publication in the Journal. Papers will appear in the on-line Journal very promptly after they have completed peer-review. A printed copy of the complete set of the accepted papers can also be purchased by registrants if desired.

#### ✍ **Workshops and Tutorials**

Seven informal round-table workshops will be held for discussion of current trends and issues. Formal presentations will be discouraged, in favor of discussions of problems, conflicts, solutions, news, and ideas. Topics will be selected from the following list based on the questionnaire at the Symposium web site.

- |  |   |
|--|---|
| ? LWR Surveillance Dosimetry           | ? Fusion and High-Energy Applications   |
| ? Radiation Damage Correlations        | ? Gamma-Ray Dosimetry                   |
| ? Test and Research Reactors           | ? Thermal and Low-Energy Neutron        |
| ? Adjustment Methods and Uncertainties | ? Units and Damage Cross Sections       |
| ? Benchmarks and Intercomparisons      | ? Retrospective Dosimetry               |
| ? Mixed-Field Dosimetry                | ? Cross Section Files and Uncertainties |

An introductory-level tutorial on Radiation Effects in Reactor Materials and an advanced-level tutorial on Sensitivity Calculations in Reactor Dosimetry will be held in parallel with one of the workshops (all costs included in the registration fee).

#### ✍ **Venue and Accommodations**

The Symposium will be held at the Park Vista Resort Hotel in Gatlinburg, Tennessee, USA, near the Great Smokey Mountains National Park, <http://www.parkvista.com>. Douglas L. Selby of the Oak Ridge National Laboratory (ORNL) is Chairman of the Local Organizing Committee. A tour of the ORNL Spallation Neutron Source and High Flux Isotope Reactor will be available on the Friday after the conclusion of the Symposium. Security authorization for non-US citizens on the tour must be arranged by February 2005.

#### ✍ **Symposium Secretaries**

For any information not found at the Symposium web site ([www.reactordosimetry.com](http://www.reactordosimetry.com)), contact:

ASTM Symposium Secretary:  
Dr. James M. Adams  
[james.adams@nist.gov](mailto:james.adams@nist.gov)

EWGRD Symposium Secretary:  
Dr. Jan Wagemans  
[jwageman@sckcen.be](mailto:jwageman@sckcen.be)

#### ✍ **Sponsors**

US Nuclear Regulatory Commission  
National Institute of Standards and Technology  
US Department of Energy  
American physical Society

American Nuclear Society  
Institute of Electric and Electronics Engineers  
Korean Atomic Energy Research Institute  
Chinese Nuclear Energy Agency