

## **Tuesday, September 13**

### **Welcoming Session:**

- 8:30-8:40 Tawfik Raby, Co-Chair, TRTR  
Seymour Weiss, Co-Chair, TRTR
- 8:40-8:50 Alain Ballagny, Chairman, IGORR
- 8:50-9:05 **Welcome**  
Dr. Patrick Gallagher  
Director, NIST Center for Neutron Research
- 9:05-9:20 **Keynote Address:**  
Colin West, First IGORR Chairman
- 9:20-9:40 **Keynote Address:**  
William Magwood, Former Director, DOE-NE
- 9:40-10:00 **Keynote Address:**  
Prof. Dr. Winfried Petry, Scientific Director, FRM-II  
**Performance of the New High Flux Neutron Source -FRM-II**
- 10:00-10:20 **Keynote Address:**  
Dr. Daniel Iracane, CEA, Project Leader, Jules Horowitz Reactor  
**The Jules Horowitz Reactor, a New Material Testing Reactor in Europe**

### **Technical Session 1:**

Ballroom

Chairman: Robert Williams

- 10:40-11:00 **Enhancing Research Reactor Safety – The IAEA’s Approach**  
Ken E. Brockman *(presented by L. Walter Deitrich)*
- 11:00-11:20 **Progress on the Construction of Australia’s Replacement Research Reactor (OPAL)**  
Ross Miller
- 11:20-12:20 ***Operating Reactors and Upgrades*** Ballroom
- 11:20-11:40 **First Experience with the Operation of the FRM-II**  
Heiko Gerstenberg

- 11:40-12:00     **Advanced Test Reactor Capabilities and Future Operating Plans**  
Frances M. Marshall
- 12:00-12:20     **Status of the High Flux Isotope Reactor and the Reactor Scientific Upgrades Program**  
Douglas L. Selby
- 13:30-14:00     **Keynote Address:**     Ballroom  
The Honorable William A. Jeffrey  
Director, National Institute of Standards and Technology

**Technical Session 2:     *Fuel Cycle Developments*     Ballroom**

Chairman: Alain Ballagny

- 14:00-14:20     **Research Reactor Low Enriched Uranium: Supply, Demand, Capabilities and Quality**  
Morris Hassler
- 14:20-14:40     **Update on the Effort to Develop and Qualify New Low Enrichment Fuels**  
Mitchell K. Meyer
- 14:40-15:00     **CERCA's and TRIGA International's Experience in Fuel Manufacturing (*not presented*)**  
Jean-Louis Falgoux and Anthony Veca

**Technical Session 3:     *Research Reactor Utilization I*     Ballroom**

Chairman: Douglas Selby

- 15:20-15:40     **Scientific Opportunities at OPAL, the Australian Replacement Research Reactor**  
Robert A. Robinson
- 15:40-16:00     **An Overview of Current Projects / Reactor Utilization for the Advanced Test Reactor**  
Robert C. Howard
- 16:00-16:20     **A Preview of Research Projects at the NC State University PULSTAR Reactor**  
Andrew Cook



10:00-10:20     **High Flux Isotope Reactor (HFIR) Cold Source Safety Analysis**  
David H. Cook

**10:40-12:00            Parallel Technical Sessions:**

**Session 5A:**            *New Reactor Facilities*                                 Ballroom

Chairman: Ross Miller

10:40-11:00     **OPAL Reactor Commissioning and Operations Planning**  
David Vittorio

11:00-11:20     **Jules Horowitz Reactor: General Lay Out, Main Design Options  
Resulting From Safety Options, Technical Performances and  
Operating Constraints**  
Xavier Bravo (*presented by Jean-Paul Dupuy*)

11:20-11:40     **The Jules Horowitz Reactor Core and Cooling Circuits Design**  
Claude Pascal

11:40-12:00     **Planning for Final Operation of the HIFAR Reactor**  
David Vittorio

**Description of Utilization Program for CARR (China Advanced  
Research Reactor)**  
Ke Guo-tu (*not presented*)

**Session 5B:**     **CLOSED SESSION – NRC Licensees ONLY**     Washingtonian

Chairman: Tawfik Raby

13:00-13:30     **Keynote Speaker:**   Ballroom  
The Honorable Luis A. Reyes  
Executive Director for Operations, USNRC





- 15:30-15:50     **Isotope Ratio Method Analysis of the Ford Nuclear Reactor**  
Christopher J. Gesh
- 15:50-16:10     **Characterization of a University TRIGA Reactor**  
Kevin E. Taylor
- 16:10-16:30     **Korea Research Reactor-2 (TRIGA) Decommissioning Project**  
Sam T. Paik

**Thursday, September 15 (DOE Day)**

**8:30-10:00                    Parallel Technical Sessions:**

**Session 8A:**     ***DOE Research Reactor Programs***                    Ballroom

Chairman: John Guttridge

8:30-8:40         **Introduction**  
John Guttridge

9:20-9:40         **2005 Status Report for the University Reactor Fuel Assistance Program**  
Anthony J. Vinnola

9:40-10:00        **The Process for Shipment of Test, Research and Training Reactor Spent Nuclear Fuel (SNF) to the INL**  
Alan Robb

**Session 8B:**     ***Computational Methods & LEU***                    Washingtonian

Chairman: Trent Primm

8:30-8:50         **A Computational Model of the High Flux Isotope Reactor: Validation and Application to Low Enriched Uranium Fuels**  
Ned Xoubi

8:50-9:10         **Determination of Inventories and Power Distributions for the NBSR**  
Albert L. Hanson

9:10-9:30         **Core Design for Neutron Flux Maximization in Research Reactors**  
Federico E. Teruel

9:30-9:50         **OPAL Reactor Licensing**  
Juan Pablo Ordonez

**10:20-12:00      Parallel Technical Sessions:**

**Session 9A:**

Ballroom

Chairman: Sean O'Kelly

10:20-10:40      **Global Threat Reduction Approach**  
Catherine Anne, NAC International

10:40-11:00      **SUNRISE – A Regional Concept for University Research Reactors**  
Rich Kochendarfer

*Reactor Utilization III*

11:00-11:20      **The IPR-R1 TRIGA Mark I Reactor: Improving the Brazilian Nuclear Technology in 45 Years of Operation**  
Fausto Maretti Júnior

11:20-11:40      **Material and Fuel Testing in the OSIRIS Reactor**  
Philippe Durande-Ayme

11:40-12:00      **Instrumented Fuel Plate for IRIS Irradiation Program in the OSIRIS Reactor**  
Patricia Boulcourt

**Session 9B:**      *Secondary Sources II*

Washingtonian

Chairman: Russell Thiering

10:20-10:40      **The FRG-1 Cold Neutron Source - Measures for High Neutron Flux and Availability**  
Wolfgang Knop

10:40-11:00      **Current Status of the HANARO CNS Moderator Cell Design**  
Yeong Jin Yu

11:00-11:20      **Special Constructional Design Features of Cold and Hot Neutron Sources and Confirmation/Verification during Commissioning of the Hot and Cold Neutron Sources at the FRM-II**  
Anton Scheuer

11:20-11:40      **Analysis of the Causes and Consequences of Neutron Guide Tube Failures**  
J. Michael Rowe





*Operations and Maintenance I*

Ballroom

Chairman: Wade Richards

16:00-16:20     **Replacement of the Regulating Rod in the Reed Research Reactor**  
Rachel C. Barnett

16:20-16:40     **Inspecting a Research Reactor's Control Rod Surface for Pitting  
Using a Machine Vision Approach**  
Akira T. Tokuhiro

**Session 11B:**     *Licensing and Safety*

Washingtonian

Chairman: Francois Plewinski

15:00-15:20     **Radiation-Induced Growth in Zircaloy-4 under Research Reactor  
Operating Conditions**  
Robert P. Harrison

15:20-15:40     **Seismic Strengthening of the ILL High Flux Reactor Building**  
Lionel Germane

15:40-16:00     **Dismantling Internal Concrete Structures in an Operating Nuclear  
Research Reactor**  
Frédérique Frery

16:00-16:20     **Safety Re-evaluation and Relicensing of the HFR-Petten**  
Peter M. Stoop

**OPAL Reactor Licensing**  
Juan Pablo Ordonez (*presented in Session 8B*)

**Friday, September 16**

**8:30 – 10:30     Parallel Technical Sessions:**

**Session 12A:**     *Operation and Maintenance II*

Ballroom

Chairman: Kenan Unlu

8:30-8:50     **Upgrade of the Wide Range Reactor Instrumentation at the  
Washington State University Nuclear Radiation Center**  
Eric Corwin



10:10-10:30     **Measurements of Nuclear Heating Rate and Neutron Flux in HANARO CN Hole for Designing the Moderator Cell of Cold Neutron Source**  
Myong-Seop Kim

**11:00-12:00**     *Closing Session*     Ballroom

11:00-11:20     **IGORR Business Meeting**  
Alain Ballagny, Chairman

11:20-11:40     **TRTR Business Meeting**  
Tawfik Raby and Sy Weiss, Co-Chairmen  
Sean O'Kelly, Chairman-elect