

# RELAP5-3D Users Group Meeting

*Thursday, 06 October 2016*

*Residence Inn, 635 West Broadway, Idaho Falls, ID*

7:30 – 8:00 Registration

**Chairman: Jim Wolf – INL**

8:00 – 8:15 Welcome and Introduction.....Wolf – INL

8:15 – 9:00 FLASHback: RELAP at Fifty.....Martin – BWXT

9:00 – 9:30 Use of Systems Analysis Codes in the Nuclear Industry.....Sharpe – INL

9:30 – 10:00 Modification to the Condensation Model in the Presence....Anderson – INL  
of Noncondensables

10:00 – 10:15 Break

**Chairman: Doug Barber – ISL**

10:15 – 10:45 Thermal-Hydraulic Analysis of a Gas-Cooled Test Reactor....Bayless – INL

10:45 – 11:15 Jacobian Matrix Analysis Tool for RELAP5-3D.....Mesina – INL

11:15 – 11:45 A Statistical Method for Benchmarking Nuclear.....McCloskey – BMPC  
Reactor Plant Models, for Use in Simulators, Smith – BMPC  
Using the Automated Code Assessment

11:45 – 12:15 Equation of State for LiPb.....Humrickhouse – INL

12:15 – 1:45 Lunch

Host: James Wolf, 208-526-7725

Meeting Coordinator: Jackie Stokes, 208-526-1054

Date: October 3 – 7, 2016

# RELAP5-3D Users Group Meeting

*Thursday, 06 October 2016*

Welcome back

**Chairman: Hope Forsmann – INL**

- 1:45 – 2:15 RELAP 7 Status.....Martineau – INL
- 2:15 – 2:45 RELAP5-3D two-Phase Behavior and Predictions.....Castelliti – SCK•CEN at Low Pressures
- 2:45 – 3:15 Thermal-Hydraulic Analysis of a Versatile Coupled.....Davis – INL Test Reactor
- 3:15 – 3:30 Break

**Chairman: George Mesina – INL**

- 3:30 – 4:00 LWRS Industry Application 1: A RELAP5-3D/Core/Fuel/Clad...Epiney – INL Coupling Application
- 4:00 – 4:30 RELAP5-3D Analyses for the US-DOE LWRS/RISMC.....Parisi – INL Program, Industry Application #2
- 4:30 – 5:00 Seismic Loop LOCA with Double-ended Guillotine.....Roth – INL Break at IPT Inlet and Outlet
- 5:00 – 5:30 RELAP5-3D Simulations of Hot Leg.....Vanni – Texas A&M Break LOCA Scenarios

**6:30 No-Host Dinner**

**Keefer’s Island Restaurant  
Shilo Hotel  
780 Lindsay Blvd  
Idaho Falls, ID**

Note: Lunch not provided

# RELAP5-3D Users Group Meeting

*Friday, 07 October 2016*

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**Chairman: George Mesina – INL**

- 8:00 – 8:30 Program Comparison of RELAP5-3D Manuals to.....Forsmann – INL  
Coding for Selected Subroutines
- 8:30 – 9:00 Update of RELAP5-3D CHF Geometry Correction Factors.....Choi – INL
- 9:00 – 9:30 PHISICS/RELAP5.....Balestra – INL

# International RELAP5 Users Group Business Meeting

*Friday, 07 October 2016*

*Residence Inn, 635 West Broadway, Idaho Falls, ID*

**Chairman: Jim Wolf – INL**

- 9:30 – 9:45 IRUG Business.....Wolf – INL
- Review of the 2015 Meeting Minutes
  - Election of new IRUG Vice-Chairman
  - Dates for Next Year’s Meeting
- 9:45 – 10:15 Selected User Problems.....Anderson – INL
- 10:15 – 10:30 Break
- 10:30 – 10:45 Licensing, Status, License Fee Structure, & Export.....Smith – INL  
Control Status

# RAVEN Training Workshop

*Friday, 07 October 2016*

*Residence Inn, 635 West Broadway, Idaho Falls, ID*

|               |  |                |
|---------------|--|----------------|
| 11:00 – 12:00 | RAVEN Overview.....                                      | Rabiti – INL   |
| 12:00 – 1:00  | Lunch  |                |
| 1:00 – 2:00   | Uncertainty quantification on a PWR SBO.....             | Parisi – INL   |
| 2:00 – 3:00   | Data Mining on a Spent Fuel Pool accident scenario.....  | Mandelli – INL |
| 3:00 – 3:15   | Break  |                |
| 3:15 – 4:15   | Reliability analysis on a BWR SBO.....                   | Alfonsi – INL  |
| 4:15 – 5:15   | Surrogate modeling for safety analysis applications..... | Alfonsi – INL  |
| 5:15          | Adjourn  |                |

Note: Lunch not provided