



**International MACCS Users Group Meeting (IMUG)**  
**June 11-12, 2018**  
**North Bethesda, Marriott, Rockville, MD 20852**  
**(Limited Attendance)**  
**Agenda**

**Monday June 11, 2018**

8:00 am Registration

**Opening Session**

8:30 am Opening Remarks

Mike Weber, Director  
Office of Nuclear  
Regulatory Research

8:45 am Participants Introductions

All

9:00 am Overview of MACCS Code Development and Applications

Nate Bixler /SNL

10:00 am BREAK

**MACCS Development: Pre and Post Processors**

10:30 am MACCS Recent Development - Input Parameter Guidance

Matt Dennis /SNL

11:00 am MACCS Pre- and Post-Processing Improvements

Trey Hathaway /NRC

11:30 am MACCS Weather File Generation from Gridded MET data

Dan Clayton /SNL

12:00 pm LUNCH BREAK

**MACCS Applications**

1:00 pm Insights from & Opportunities for Applications of MACCS  
in DOE Nuclear Safety Analysis

Kevin O’Kula /  
Consultant DOE

1:30 pm Final Atmospheric Transport and Land Contamination Results  
For Fukushima Daiichi Units 1, 2, & 3

Nate Bixler /SNL

2:00 pm BREAK

**MACCS Applications: Modeling Protective Actions**

2:30 pm Evacuation Time Estimate Study Updates

Sergio Gonzales  
/NRC

3:00 pm The Consequence Analysis Comparison of Severe Accident  
Using MACCS/RASCAL/EPZ Dose

Shao-Shuan Chen  
/AEC Taiwan

3:30 pm Adjournment / Walk to NRC HQ Building for Tour

4:00 pm NRC Operation Center Tour for Pre-Registered Participants



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**Tuesday June 12, 2018**

9:00 am Welcome / Announcements

**Severe Accident Consequence Analysis Research Activities at IRSN**

9:05 am Recent Research Activities Related to Atmospheric Dispersion Modeling - Focus on the Fukushima Accident, the Deposition Modeling and Uncertainty Modeling Anne Mathieu /IRSN

10:00 am BREAK

**Multiunit Risk Analysis**

10:30 am Efficient Risk Analysis of Multiunit Accident Effects on Public Health and Safety using Models from SOARCA Project Dan Hudson /NRC

11:00 am Characteristics and Modeling Considerations of Multi-Unit Level 3 PSA Sung-Yeop Kim /KAERI

11:30 am Look-Up Table Approach for Multi-Unit Level 3 PSA Sung-Yeop Kim /KAERI

12:00 pm LUNCH BREAK

**ATD Benchmarking**

1:00 pm MACCS HYSPLIT Benchmarking Results Dan Clayton /SNL

1:30 pm METEONUC - A Benchmark Analysis between RASCAL and HYSPLIT Simulation Results and Field Measurements Albert Janés Ribas & Pedro Diaz Bayona /Spain

2:00 pm BREAK

**International Collaborations and Consequence Analysis**

2:30 pm Insights from the WGRISK Status of Practice for Level 3 Probabilistic Safety Assessment Survey Dan Hudson /NRC

3:00 pm ENEA Plans for Performing Consequence Analyses in Italy Fulvio Mascari & Federico Rocchi /Italy

3:30 pm CSARP/IMUG Partners Meeting (Open to partners only in Strathmore Room).