

35th International Nuclear Air Cleaning Conference

Marriott Hotel Charleston, SC

June 3-5, 2018

Sunday June 3, 2018

5:00 - 6:00 Registration

Opal Promenade

5:00 - 6:00 Welcoming Reception

Sponsored by ISNATT

Opal Promenade

5:00 - 6:00 Vendor's Exhibits

Opal Two

AAF International

Camfil

Jacobi Carbons

MC AIR

NUCON Intl

Porvair Filtration

Monday June 6, 2016

8:00 Registration

Opal Promenade

7:30 - 9:30 Breakfast

Sponsored by AAF International

Opal Promenade

9:30 - 5:00 Vendor's Exhibits

Opal Two

Monday Morning Sessions

Emerald One and Two

8:30 Welcome and Opening Remarks

Dr. Ronald R. Bellamy, President, ISNATT

8:50 - 9:05 Forty-Plus Years of Memories

Jim Edwards

Keynote Presentation

9:05 - 9:50 Nuclear Ventilation Regulations and Standards in the UK

Bernard Swinnerton (Sellafield Sites)

9:50 - 10:00 Session Recap

Dr. Ron Bellamy, ISNATT

Break 10:00 - 10:45 am

Opal Promenade,

Sponsored by Jacobi Carbons

10:45 - 11:15 Use of Regenerable Sintered Metal Media Filters in Nuclear

Applications Chris Carter (Cavendish Nuclear) and Chris Chadwick (Porvair Filtration)

11:15 - 11:45 Air Cleaning Developments in China (Qun Lui, Lihong Han, & Jianrong Hou)

11:45 - 12:00 Session Recap
Dr. Ron Bellamy, ISNATT

Lunch 12:15 - 1:30 pm
Courtyard

Monday Afternoon Sessions

Emerald One and Two

Session Chairs: Andrew Stillo and James Kriskovich

1:30 - 2:45 Process Control for HEPA Filters: ACFM vs. ACFM

Moderator: Dr. Charles Waggoner, ICET

Panelists: Jerome Roberts (NTS) Dr. Craig Ricketts (EngrsCo) and Dr. Werner Bergman (Aerosol Sciences)

2:45- 3:00 Panel Discussion Recap

Break 3:00 - 3:30

Sponsored by Jacobi Carbons
Opal Promenade

3:30 - 5:00 Afternoon Session

3:30 - 4:00 Examination of Alternative Nuclear Filtration Materials using the Mini High Temperature Test Unit (HTTU) Lauren Finkenauer (LLNL)

4:00 - 4:30 Summary of ICET Test Results for Axial Flow HEPA Filters
John Wilson (ICET)

4:30- 4:40 Review and Recap of Day's Sessions

4:40 - 5:00 ISNATT Business Meeting

Chaired by: Dr. Ron Bellamy

Emerald One and Two

Poster Session and Social Hour 5:00 - 6:30

Sponsored by MSU-ICET

Yellow Topaz

- 1. Institute for Clean Energy Technology's Graduate Research Program a Mississippi State University Heejin Cho (ICET)**
- 2. Test Plan for Performance Evaluation of Filters Subjected to ACFM and SCFM Air Flow Conditions Gentry Berry, Heejin Cho, and Charles Waggoner (ICET)**

3. **Accelerated Aging for Nuclear Grade HEPA Filter Media: Statistical Design and Analysis** Katie Phillips, Coralie Rose, and Charles Waggoner (ICET)
4. **Stability Studies and Accelerated Aging for Nuclear Grade HEPA Filter Media: Materials Lifetime Estimation Program** Coralie Rose and Charles Waggoner (ICET)
5. **ICET Testing and Quality Assurance** Jaime Rickert (ICET)
6. **Infrastructure for Evaluating Smoke Effects on HEPA Filters** Spencer Phillips (ICET)
7. **ICET Filter Testing and Qualifying Infrastructure** John Wilson (ICET)
8. **Design and Development of 3D Printed Ceramic Filter Media Architectures for Particulate Filtration** Joseph Lee (UC Berkley and LLNL)
9. **Transient Heating and Thermomechanical Stress Modeling of Ceramic HEPA Filters** Brandon Bogle (ICET and LLNL)
10. **Design and Development of Electro-Spun Nanoarchitectures of Materials for Extreme Environment Applications** Dr. James Kelly (LLNL)
11. **Next-Generation HEPA Filters for the DOE Complex** (LLNL)
12. **Predicting Public Health Consequences of Toxic Chemical Contamination of Municipal Water Distribution Systems** David Bradley, Ph.D., Ray Jablonski, Dennis Howell, Helen Mearns, Janet Moser, D.V.M., Ph.D. (DHS Science and Technology Directorate)
13. **Models used in the Chemical Terrorism Risk Assessment** David Bradley, Ph. D., Carol A.S. Brevett, Ph.D., Jessica Cox, Rachel Gooding, Helen Mearns (DHS Science and Technology Directorate)
14. **Experimental Apparatus and Test Variables for Evaluating Aging of TEDA Impregnated Activated Carbon** H S Kim (Korea Hydro & Nuclear Power Co. Ltd., Central Research Institute, KOREA)

Tuesday June 5, 2018

7:00 - 9:30 Breakfast Sponsored by Veolia Systems
Opal Promenade

8:00 - 5:00 Vendor's Exhibits
Opal Two

Morning Sessions

Emerald One and Two

Chairs - Art Soma and Nicholas Zaremba

8:00 Opening Remarks Dr. Ron Bellamy, ISNATT

Keynote Presentation

8:15 - 9:00 Status of R&D for Fuel Debris Retrieval at Fukushima Daiichi Nuclear Power Station Mr. Kenro Takamori, IRID General Manager, R&D Management

9:00 - 9:30 Defense Nuclear Facilities Safety Board
David Grover (DNFSB)

9:30 - 10:00 ATI Filter Test Facility Report

Chris Hart (ATI FTF)

10:00 - 10:15 Session Recap

Morning Break 10:15 - 11:00

Opal Promenade

Sponsored by Jacobi Carbons

11:00 - 11:30 High Equilibrium Time CREEVS Inleakage Measurements,

Peter Lagus (Lagus Applied Technology)

11:30 - 12:00 Recent Advances in Nuclear Fuel Reprocessing Off-Gas

Treatment Dr. Robert Jubin (ORNL)

12:00- 12:10 Session Recap

Dr. Ron Bellamy, ISNAT

LUNCH 12:15 - 1:30

Emerald Three

Dr. Steven Biegalski, Georgia Institute for Technology

Tuesday Afternoon Sessions

Emerald One and Two

Session Chairs: Dr. Heejin Cho and Andrew Duncan

1:30 - 2:00 Active Filter Tests for Radial and Square HEPA Filters & Parallel

Canisters for Carbon Filter Test, Luis Rudenas (ANSTO)

2:00 - 2:30 Development of a Low Flow Rate Axial HEPA Filter for

Radiological Applications

Mark Sorna (Puget Sound Naval Shipyard)

2:30 - 3:00 Fire Detection in Adsorber Bed: Carbon Monoxide Monitoring vs.

Thermocouples Clinton Summers, J. Louis Kovach (NUCON, Intl)

3:00 - 3:05 Recap of Session

Andrew Duncan, AAF Flanders

3:05 - 3:30 Afternoon Break

Opal Promenade

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Final Session

Emerald One and Two

3:30 - 4:00 HEPA Filter Failure Modes at Elevated Pressure, Temperature and

Moisture Dr. Werner Bergman (Aerosol Sciences) and Gerard

Garcia

- 4:00 - 4:30 A Novel Vapor Abatement Process for Low Concentrations of Mixed Toxic Gases.** Clinton Summers, Larry Schaffer, Joe Enneking and J. Louis Kovach (NUCON, Intl)
- 4:30 - 4:45 Conference Summary and Final Announcements**
Dr. Ronald Bellamy, ISNATT

Social Event 5:00
Topaz Room
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