



BHSC NEWS

October 24, 2008

It's Not Too Late to Register for the Symposium!

The deadline for early registration to the Third International Symposium on Beryllium Particulates and Their Detection has been extended once more, to October 31. After that, registration fees increase to \$295, still quite reasonable for a 2.5-day event. Registration will also be available at the door. For further information, visit the symposium web site at:

<http://dce.unm.edu/Custom/Beryllium/index.cfm>

The agenda for the symposium is attached to this newsletter. Any questions should be directed to Amy Ekechukwu, symposium chair, at +1-803-725-1236 or by email at amy.ekechukwu@sml.doe.gov.

Agenda for Nov 20 BHSC Meeting

The BHSC will have a one-day meeting following the symposium, on Thursday, November 20, at the University of New Mexico Continuing Education Center (same location as the symposium).

The updated agenda for the one-day meeting is attached to this newsletter. A few highlights:

- Presentation from the Office of Emerging Contaminants, U.S. Defense Department
- Roundtable on Risk Communication featuring DOE and DoD experts
- Review of National Academy of Sciences study for the Air Force
- Election of two at-large members to the BHSC Board

ABIH points will be requested. We are still working on the speakers for the NAS study review and will communicate details later. The study itself is posted on the BHSC Sharepoint page.

BHSC Election Notice

At the November 20 meeting, the BHSC will elect two at-large Board members for a three-year term. The terms of Geoff Braybrooke and Jim Jenkins are expiring. Although both are eligible for re-election to a second term, Jenkins has indicated that he is not seeking re-election. The BHSC appreciates the service of both Braybrooke and Jenkins on the Board.

Registered members of the BHSC will be eligible to vote in this election. If you have not applied for BHSC membership, the membership form is available from the home page of the BHSC public-access web site (www.sandia.gov/BHSC).

New Materials on BHSC Sharepoint Page

The items listed below have been posted on the home Sharepoint page and are available to all BHSC members.

- A soil-air-wipe calculator provided by Gary Whitney, Los Alamos National Lab. Gary says, "I have found it to be a useful tool for making quick estimates of the amount of beryllium that might be airborne or on surfaces based on the beryllium concentration in soil, construction materials, or other dust. There are two sheets in the Excel workbook. The first is the calculation spreadsheet; the second is instructions."



Conference Call Schedule, Oct 24 – Nov 30

All times listed are U.S. Eastern time. The U.S. is currently on Daylight Saving Time but will revert to Standard Time on Sunday, November 2.

The following schedule was current as of October 24, 2008, and is subject to change. Call leaders typically notify their regular participants if a call is rescheduled or cancelled. Check with the listed call leader to confirm that the call is being held.

Due to the BHSC symposium and meeting, the list is shorter than usual.

Oct 27, 3 PM, Symposium Subcommittee, Amy Ekechukwu, amy.ekechukwu@srnl.doe.gov
Oct 28, noon, Sampling working group, Geoff Braybrooke, geoffrey.braybrooke@us.army.mil
Nov 4, noon, Validation Working Group, Amy Ekechukwu, amy.ekechukwu@srnl.doe.gov
Nov 6, noon, Be by Fluorescence Working Group (Anoop Agrawal, aagrawal@qwest.net)
Nov 11, noon, Sampling and Analysis Subcommittee (Melecita Archuleta, melarch@sandia.gov)
Nov 13, noon, Accreditation working group, Diana Decker, ddecker@lanl.gov
Nov 13, 3 PM, Research Needs Subcommittee, Mike McCawley, mccawley.mike@comcast.net
Nov 25, noon, Sampling working group, Geoff Braybrooke, geoffrey.braybrooke@us.army.mil



Future BHSC Meetings

Locations for the Fall 2010 and Spring 2011 meetings are now being solicited. Fall meetings are typically in the western U.S., and spring meetings are typically in the eastern U.S. (or at AWE). Locations typically need to be at a DOE, DoD, or AWE site. If you would be interested in hosting a meeting, please contact Mike Brisson.

November 17-20, 2008, Albuquerque, NM

Nov 17 AM: JOWOG and Board Meetings

Nov 17 PM: Surface Sampling Tutorial

Nov 18-19: Third International Symposium on Beryllium Particulates and Their Detection

Nov 20: Main BHSC meeting

March 31-April 2, 2009, Savannah River Site, Aiken, SC

Mar 31: Board and JOWOG

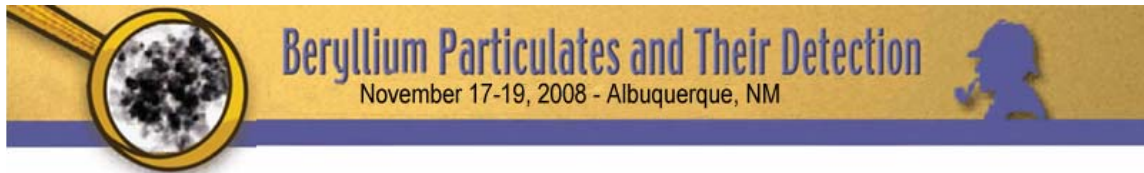
Apr 1-2: Main BHSC meeting

Fall 2009: DOE North Las Vegas office complex

Tentative dates: Nov 3-5, 2009

Spring 2010, U. K. Atomic Weapons Establishment Aldermaston, Reading, U.K.

Tentative dates: Apr 13-15, 2010



Third International Symposium on Beryllium Particulates and Their Detection

Co-Sponsored by:

**Beryllium Safety and Health Committee
Eichrom Technologies LLC
Savannah River National Laboratory
National Institute for Occupational Safety and Health
U.S. Department of Energy**

**November 17-19, 2008
University of New Mexico
Albuquerque, NM**



Sandia National Laboratories



Symposium at a Glance

MONDAY, November 17, 2008 - All times are Mountain Standard Time

1:30 – 4:30 p.m. **Sampling Tutorial – Auditorium**
Kevin Ashley – CDC/NIOSH, Cincinnati, OH
Geoffrey Braybrooke - U.S. Army CHPPM, Aberdeen
Proving Ground, MD
Steve Jahn – Savannah River Nuclear Solutions, Aiken, SC
Mike Brisson – Savannah River Nuclear Solutions, Aiken,
SC

TUESDAY, November 18, 2008 - All times are Mountain Standard Time

7:00-8:30 am **Registration – Lobby Breakfast – Dining Room B & C**

Auditorium Opening Plenary Session - Amy Ekechukwu, Symposium
Chair, Savannah River National Laboratory, Presiding

Sponsored by NIOSH Division of Applied Research and
Technology

8:30-8:40 am **Opening Remarks – Amy Ekechukwu,**

8:40 – 9:20 am **A History of Beryllium Exposure Assessment - Paul F.**
Wambach, DOE, Office of Illness and Injury Prevention,
Washington, DC

9:20 – 10:00 am **Beryllium Sampling Issues and Practical Impacts for the**
Industrial Hygienist in the Field - Gary E. Whitney, Los
Alamos National Laboratory, Los Alamos, NM

10:00 – 10:20 am **BREAK – Sponsored by NIOSH Division of Applied**
Research and Technology

10:00 am-4:00 pm **Vendor Exposition Open – Dining/Break Room B & C**

10:20 – 11:00 am **Overview of Beryllium Analytical Chemistry – History, State**
of the Art, and Future Needs - Michael J. Brisson,
Savannah River Nuclear Solutions, Aiken, SC

11:00 – 11:40 am **Medical and Epidemiological Issues Overview –Peggy**
Mroz, National Jewish Health, Denver, CO

11:40 am-1:30 pm **Lunch – Sponsored by DataChem**
Vendor exhibits are available for viewing

Symposium at a Glance

**SESSION A
Auditorium** **Medical/Epidemiological Effects – Routes to Exposure and Sensitization - Peggy Mroz, National Jewish Health, Presiding**

Sponsored by DOE

- 1:30 – 1:40 pm **Introduction – Peggy Mroz**
- 1:40 – 2:05 pm **Beryllium in the Tissues of Weapons-site Workers - Anthony C. James, U.S. Transuranium & Uranium Registries, Washington State University, Richland, WA**
- 2:05 – 2:30 pm **Beryllium Toxicity In Relation To Chemical Forms And Particle Sizes - Caroline Muller, University of Montreal, Department of Occupational and Environmental Health, Montreal, Canada**
- 2:30 – 2:55 pm **The Basics of Particle Size-Selective Sampling for Beryllium - Mike McCawley, Department of Community Medicine, School of Medicine, West Virginia University, Morgantown, WV**
- 2:55 – 3:15 pm **BREAK – Sponsored by ERA**
- 3:15 – 3:40 pm **Variable Response to Long-term Corticosteroid Therapy in Chronic Beryllium Disease - Akshay Sood, University of New Mexico, Albuquerque, NM**
- 3:40 – 4:05 pm **Beryllium Alters Lipopolysaccharide-Mediated Intracellular Phosphorylation and Cytokine Release in Human Peripheral Blood Mononuclear Cells - Anu Chaudhary, Los Alamos National Laboratory, Los Alamos, NM**
- 4:05 – 4:30 pm **Exposure and Genetics Contribute to the Risk of Beryllium Disease - Mike Van Dyke, National Jewish Health, Denver, CO**
- 4:30 – 4:55 pm **Upregulation of I-CAM1 in Response to Beryllium Exposure in Small Airway Epithelial Cells - Elizabeth Hong-Geller, Los Alamos National Laboratory, Los Alamos, NM**

ADJOURN FOR DAY

6:00-8:00 pm **Welcome Reception – Sponsored by Berylliant, Inc. Elegante Hotel Atrium**

Symposium at a Glance

WEDNESDAY, November 19, 2008 - All times are Mountain Standard Time

7:00-8:30 am	Registration – Breakfast – Dining Room B & C Lobby
9:00 am-5:00 pm	Vendor Exposition Open Dining/Break Room B & C
SESSION C Auditorium	Analytical - Sample Preparation, Sampling – Kevin Ashley, CDC/NIOSH, Presiding
	Sponsored by ASTM International
8:30 – 8:35 am	Introduction, Kevin Ashley
8:35-8:55 am	A Matrix of Beryllium Sampling Applications - Gary E. Whitney, Los Alamos National Laboratory, Los Alamos, NM
8:55 – 9:15 am	Surface Sampling for Metals - Steven D. Jahn, Savannah River Nuclear Solutions, Aiken, SC
9:15 – 9:35 am	Interlaboratory Evaluation of a Standardized ICP-MS Method for the Determination of Trace Be in Air Filter Samples – Kevin Ashley, CDC/NIOSH, Cincinnati, OH
9:35 – 9:55 am	On Wiping the Interior Walls of 37-mm Closed-face Cassettes: an OSHA Perspective - Warren Hendricks, OSHA Salt Lake Technical Center, Sandy, UT
9:55 – 10:15	The Real Issue with Wall Deposits in Closed Filter Cassettes – What’s the Sample? - Michael J. Brisson, Savannah River Nuclear Solutions, Aiken, SC
10:15 – 10:30 am	BREAK – Sponsored by Brush Wellman
10:30 – 10:50 am	Beryllium Particulates and Wall Deposits – What are our options - Melecita M. Archuleta, Sandia National Laboratories, Albuquerque, NM

Symposium at a Glance

- 10:50 – 11:10 am **AIHA Accreditation and Proficiency Testing for Beryllium - Cheryl O. Morton, American Industrial Hygiene Association, Fairfax, VA**
- 11:10 – 11:30 am **Generating “Fit for Purpose” Data when Sampling and Testing - Albert A. Liabastre, US Army Center for Health Promotion and Preventive Medicine- South, Fort McPherson, GA**
- 11:30 – 11:50 am **A Brief Exposé of “Detection Limits”: Science, Politics, and Public Relations - Charles B. Davis, EnviroStat, Las Vegas, NV**
- 11:50 – 12:10 pm **Advantages of Multivariate Spectral Deconvolution Techniques in Correcting for Interferences in Beryllium Analysis by ICP-OES - James M. Robbins, US Department of Energy, National Energy Technology Laboratory, Albany, OR**
- 12:10 pm-1:30 pm **Lunch – Sponsored by National Jewish Health Exhibits Staffed**
- SESSION D Auditorium** **Research Frontiers - New Advances and Research Needs – David Weitzman, Department of Energy, Office of Worker Safety and Health Policy, Presiding**
- Sponsored by DOE**
- 1:30 – 1:35 pm **Introduction – David Weitzman**
- 1:35 – 1:55 pm **The Development of an Interactive Guide to Working Safely with Beryllium and Beryllium-Containing Materials - Marc E. Kolanz, Brush Wellman Inc., Cleveland, OH**
- 1:55 – 2:15 pm **New Method for Removal of Spectral Interferences for Beryllium Assay using Inductively-Coupled Plasma Atomic Emission Spectrometry - Sherrod L. Maxwell, Savannah River Nuclear Solutions, Aiken, SC**
- 2:15 – 2:35 pm **Beryllium Speciation in Physiological Conditions - T Mark McCleskey, Los Alamos National Laboratory, Los Alamos, NM**

Symposium at a Glance

- 2:35 – 2:55 pm **Reference Material (SRM) 1877 Beryllium Oxide Powder: Certification of Beryllium Mass Fraction- Michael R. Winchester, National Institute of Standards and Technology, Gaithersburg, MD**
- 2:55 – 3:15 pm **BREAK - Sponsored by High Purity Standards
Last Chance to View Vendor Exhibits**
- 3:15 – 3:35 pm **Dissolution Studies on Large BeO Ceramic Particles using Ammonium Bifluoride Aqueous Solutions – Anoop Agrawal, Berylliant, Inc., Tucson, AZ**
- 3:35 – 3:55 pm **An Improved Beryllium Determination for Air Filters and Surface Smears Utilizing High Throughput Automated Fluorescence - Thomas J. Oatts, B&W Y-12, Y-12 National Security Complex, Oak Ridge, TN**
- 3:55 – 4:15 pm **Extraction and Fluorescence Method for the Determination of Trace Beryllium in Soils - Kevin Ashley, CDC/NIOSH, Cincinnati, OH**
- 4:15 – 4:35 pm **Comparison of Beryllium Determinations by High Throughput Fluorescence and ICP Emission Spectroscopy: Data from the Oak Ridge Y-12 National Security Complex - Thomas J. Oatts, B&W Y-12, Y-12 National Security Complex, Oak Ridge, TN**
- 4:35 – 4:55 pm **Fluorescence Analysis of Beryllium in Samples Contaminated by Strongly Fluorescent Impurities - Anoop Agrawal, Berylliant Inc, Tucson, AZ**
- 4:55 – 5:15 pm **Beryllium Research Needs - Mike McCawley, Department of Community Medicine, School of Medicine, West Virginia University, Morgantown, WV**
- 5:15 – 5:30 pm **CLOSING REMARKS – Amy A. Ekechukwu, Savannah River National Laboratory**



AGENDA – BHSC Fall Meeting
November 20, 2008 – University of New Mexico Continuing Education Conference Center
Albuquerque, NM (Final Rev. 0)

- 0800-0830 Registration
0830-0845 Welcome – Melecita Archuleta, Sandia National Lab
Announcements – Mike Brisson
0845-0930 Beryllium as an emerging contaminant in DoD
Kelly Scanlon, DoD Office of Emerging Contaminants
0930-1000 NNSA Beryllium Initiative – Don Harvey
1000-1020 Break
1020-1150 Roundtable on Risk Communication
1020-1050 Lori Geckle (USA CHPPM) – presentation
1050-1105 Tom Ford (Y-12) – presentation
1105-1120 Steve Jahn (SRS) – presentation
1120-1150 Group discussion
1150-1320 Lunch (on your own)
1320-1500 Subcommittee Reports
1320-1330 Medical/Epidemiological (Donna Cragle)
1330-1340 Research Needs (Mike McCawley)
1340-1350 Risk Communication (Steve Jahn)
1350-1400 Technical Standards, Practices, and Measures (David Weitzman)
1400-1410 Sampling and Analysis (Melecita Archuleta)
1410-1440 Meetings and Symposia (Amy Ekechukwu)
Review of this week’s symposium – what went right, opportunities for
improvement, action items for BHSC
1440-1500 Break
1500-1545 Review of NAS Study, Part 2, for U.S. Air Force – speaker(s) TBD
1545-1600 Regulatory Updates (DOE, OSHA)
1600-1615 Beryllium Foundation (Jahn/McCawley)
1615-1630 BHSC Operations Update (Mike Brisson)
Web Site
Membership
Progress on Charter and By-Laws
1630-1645 Election of two at-large Board members
1645-1700 Other business and wrap-up