American Nuclear Society

AGENDA

Detecting Radiation in Our Radioactive World

Saturday, November 7, 2015

Washington Marriott Wardman Park - Washington, DC

Room: Lincoln 2

7:30 AM	Attendee Check-in begins (Continental Breakfast available)
8:00	Welcome & Introductions; Overview of Workshop - Mary Lou Dunzik-Gougar
8:05	Introduction to Radiation –Dunzik-Gougar
8:45	**Demonstration: Alpha and Beta Decay**
8:50	**Activity: Modeling Atoms – Mini Rutherford 1.1**
9:30	**Activity: Half-Life of M&Ms 5.11**
10:00	**BREAK**
10:15	Nuclear Power / Electricity Generation – Candace Davison
10:45	Fuel Cycle / Waste Management - Dunzik-Gougar
11:15	**LUNCH (provided)**
12:00 PM	Brief History of Particle Physics – Eric Loewen
12:30	Applications of Nuclear Science and Technology – Davison
1:15	Career Opportunities for Students - Davison
1:30	**Demonstration: Radioactive vs Irradiated Salt 4.17**
1:40	**Activity: Making Atoms Visible - Cloud Chamber 2.1**
2:10	**Activity: Making Atoms Visible - Autoradiographs 2.8**
2:20	**Demonstration: Understanding Radiographs**
2:30	**BREAK**
2:45	Chart of Nuclides / Isotopes – Bill Wabbersen
3:00	**Activity: Isotope Discovery Kit**
3:30	**Activity: Measuring and Units – Is it Radioactive? (Geiger Counters) 6.1**
4:15	Summary and Evaluations
5:00	Workshop Ends

Final presentations will be available at http://www.ans.org/pi/edu/teachers/presentations/

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American Nuclear Society's Center for Nuclear Science and Technology Information

www.NuclearConnect.org