



Agenda

Detecting Radiation in Our Radioactive World

The American Nuclear Society's Teacher Workshop on Nuclear Science & Technology

Saturday, November 9, 2013

Omni Shoreham Hotel -- Executive Room

7:30 AM	Registrant Check-in (Continental Breakfast available)
8:00	Welcome & Introductions; Workshop Overview - Chuck Vincent
8:05	Seeing the Unseen (activity) - Ms. Candace Davison
8:40	Introduction to Radiation - Dr. Mary Lou Dunzik-Gougar/Ms. Candace Davison Related Activities - Modeling radiation types; half-life activities (licorice; M&M) Paper half-life; modeling radioactive decay (demo)
10:00	BREAK
10:15	Brief History of Particle Physics – Dr. Eric Loewen
11:00	Nuclear Fuel Cycle: An Overview - Dr. Mary Lou Dunzik-Gougar
11:30	Nuclear Power/Electricity Generation – William “Art” Wharton
12:15	LUNCH (provided)
1:00	Other Applications of Nuclear - Ms. Candace Davison
1:45	Isotopes/Chart of Nuclides (activity/demo) – Bill Wabbersen
2:30	Cloud Chambers activity & Irradiated Salt demo - Chuck Vincent/Candace Davison Radiography info
3:00	BREAK
3:15	Understanding Risk – Dr. Richard Denning
4:00	Radiation Monitors and How to Use Them in Your Classroom -Chuck/Candace/staff
4:30	Opportunities/Careers for Students
4:45	Summary & Evaluation “Geiger Counter Coupons” collected Evaluations completed and collected Certificates of Attendance distributed
5:15	Workshop Ends

Funding for the ANS Teacher Workshop is provided, in part, through individual and organizational contributions to ANS Outreach and the Center for Nuclear Science & Technology Information

Photos of participants will be taken as they are involved in workshop activities.



Presenters

Ms. Candace Davison, M.Eng.

Senior Reactor Operator/Research Education Specialist
Breazeale Reactor, Penn State University
University Park, PA

Dr. Richard Denning

Professor, Nuclear Engineering, Dept. of Mechanical and Aerospace Engineering
The Ohio State University
Columbus, OH

Dr. Mary Lou Dunzik-Gougar

Asst. Prof., Nuclear Engineering, Idaho State University
Research Scientist, Idaho National Laboratory
Idaho Falls, ID

Dr. Eric P. Loewen

Chief Engineer, General Electric
Wilmington, NC
A Past President, American Nuclear Society

Mr. William Wabbersen

Facility Evaluation Board, SRNS
Member of Savannah River Local Section of ANS; Aiken, SC

William “Art” Wharton

Principal Project Engineer
Westinghouse Electric Co.
Monroeville, PA

ANS Workshop Staff

Chuck Vincent

Communications Administrator
ANS Teacher Workshop Coordinator
American Nuclear Society
La Grange Park, IL