

THURSDAY, JULY 28

Thu-08:45-P-01, Rood Hall, Room 1110 Presentation

Thu 8:45-9:30 AM

Converting Chemistry Curriculum to an Interactive Whiteboard

Cricket McCaffrey-Clark, cricket@colonial.net

A 6 year journey converting chemistry curriculum and instruction to electronic flipchart format. A selection of electronic flipcharts and customized visualizations will be shared. In addition, a demonstration of the use of a handheld learner response system and Moodle to support student learning will also be shared.

Thu-08:45-P-02, Rood Hall, Room 1118 Presentation

Thu 8:45-9:30 AM

Targeting Inquiry Standards with Project Based Learning (PBL)

Jody Tuls, jtuls@mattawanschools.org, Heather Kramer and Laura Bell

Ever wondered if you could teach a PBL unit in chemistry? This is the session for you! Come and discover how to put together a PBL unit that includes hydrocarbons, thermodynamics, covalent bonding, IMFs, and polymers. In addition, students gain technology skills and inquiry standards that are often overlooked.

Thu-08:45-P-04, Wood Hall, Room 1107 Presentation

Thu 8:45-9:30 AM

Worksheets to Hands on Activities

Jamie Flint, jamie.flint@springbranchisd.com, and Alicia Midler

Come discover some hands on manipulatives for many topics of a high school chemistry class. Many of these ideas you will be able to use to make manipulatives for any topic.

Thu-08:45-P-05, Wood Hall, Room 1127 Presentation

Thu 8:45-9:30 AM

Technology Enhances Chemistry Labs

Gene Wicks, gwicks@eup.k12.mi.us

High school science students use laptop computers, Vernier LabPros, and chemistry sensors to decrease the time needed for data collection and increase the quality of the results. For most students, this technology makes scientific relationships more clearly observable and lab experiences more enjoyable.

Thu-08:45-P-06, Wood Hall, Room 1710 Presentation

Thu 8:45-9:30 AM

Don't Try This At Home - Using Mythbusters in Your Science Classroom!

Kathy Winczewski, kwinc@hotmail.com, Rebecca Fredrick and Erika Fatura

Learn how to use the popular Discovery Channel show "Mythbusters" in your science classroom! You will get a copy of a detailed episode guide that is aligned to the Michigan state standards and broken down into specific content area. Also - Oprah's Favorites - A quick look at some valued teaching ideas.

Thu-08:45-P-07, Wood Hall, Room 1718.....Presentation

Thu 8:45-9:30 AM

Chemical Potential from the Beginning

Dr. Regina Ruffler, Regina.Rueffler@job-stiftung.de

The chemical potential μ is reputed to be very hard to grasp. Therefore, we propose a new concept for introducing (μ) which allows to teach the subject even at introductory high school level. Selected experiments contribute strongly to comprehension.

Thu-08:45-W-01, Chemistry Building, Room 1260.....Workshop

Thu 8:45-10:15 AM

Spectacular Chemistry Demonstrations

Brian Rohrig, blrohrig@columbus.rr.com

A variety of unique and dramatic demos will be presented to stimulate student interest and promote critical thinking. Topics covered include reactions, light, density, combustion and some incredible uses for the microwave oven. Most demos involve minimal cost and set-up.

Thu-09:45-P-01, Chemistry Building, Room 1720Presentation

Thu 9:45-10:30 AM

Toys of Chemistry

Jo King, jking@canyonisd.net; and Jeff Hepburn

Toys can demonstrate chemistry concepts and grab the students' attention and convince them that chemistry is relevant and exciting!

Thu-09:45-P-03, Wood Hall, Room 1107Presentation

Thu 9:45-10:30 AM

iPads and Netbooks

Doug Ragan, dragan@hpseagles.net; and Ryan Schoenborn

This session will show how two high school chemistry teachers integrated technology into their chemistry classes. The use of ipad apps, websites, moodle, and google docs including specific examples of students work and classroom assignments will all be discussed.

Thu-09:45-P-04, Wood Hall, Room 1127Presentation

Thu 9:45-10:30 AM

How to Solve It!

Andy Cherkas, cherkas@sympatico.ca

This session will take you through problem solving techniques for various types of chemistry problems.

Thu-09:45-P-05, Wood Hall, Room 1301.....Presentation

Thu 9:45-10:30 AM

Pop Culture in the Chemistry Classroom

Elizabeth Mitchell, ekmitche@syr.edu

Do you find your students are not interested in what they learn in class? Engaging students by incorporating popular culture in the classroom is a great way to entice your students to learn. Find out how The Wizard of Oz, Indiana Jones, and Lost can be used to teach important concepts in the chemistry curriculum!

Thu-09:45-P-06, Wood Hall, Room 1710.....Presentation

Thu 9:45-10:30 AM

Jokes, Gags, and Puns for Chemistry

Jamie Benigna, jamie.benigna@roeper.org,

My students swear there is a Chemistry teacher's joke book containing the bad jokes, gags, comic strips, and puns that I tell. Since no book exists, why not make our own? Bring your favorite; we will share and categorize. All attendees will receive the compilation via email.

Thu-09:45-P-07, Wood Hll, Room 1718.....Presentation

Thu 9:45-10:30 AM

The Physical Plant and Professional Responsibility: the ACS Guidelines and Recommendations for Teaching High School Chemistry, a Resource for High School Chemistry Teaching

Terri Taylor, t_taylor@acs.org; Bettyann Howson, Diane Krone, Brian Kennedy, and Carol Rulli

Don't miss an interactive discussion on the "Physical Plant for High School Chemistry" and "Professional Responsibility" segments of the ACS Guidelines and Recommendations on Teaching High School Chemistry and their use in high school chemistry programs. Explore guidelines related to safety, the laboratory and classroom settings, technology, and professional development.,

Closing Ceremonies.....Miller Auditorium

Thu 10:45 AM-12:00 PM

**Keynote Speaker: Dr. Bonnie Lasby, University of Guelph, Ontario, Canada
*Nanoscale Chemistry is Not Too Cool for School***

This presentation will introduce some aspects of nanoscience as they relate to chemistry. Resources and applications for the classroom will be discussed. Demonstrations relating to these applications will be presented along with instructions on how to recreate these demonstrations, making nanoscale chemistry accessible in nearly any classroom setting.