

**Missouri University of Science and Technology**  
**Fall Semester 2014**  
**Chemistry Department Seminar Schedule**

All seminars are held on Mondays at 4:30 p.m. in 126 Schrenk Hall, except on Sept. 8, when the seminar will be held in G3 Schrenk Hall.

Monday, Sept. 1  
Labor Day – No Seminar

Monday, Sept. 8  
General Laboratory Safety Training  
Phyllis Lewis, Environmental Specialist  
Environmental Health and Safety  
Missouri University of Science and Technology

Monday, Sept. 15  
Recent Advances on Pebble Bed Nuclear Reactor Dynamics by Developing Advanced Measurement and Computational Techniques  
Prof. Muthanna Al-Dahhan  
Department of Chemical and Biochemical Engineering  
Missouri University of Science and Technology

Monday, Sept. 22  
Structure-Property Studies in Photoresponsive Cyanometalates  
Stephen M. Holmes  
Department of Chemistry and Biochemistry  
University of Missouri-St. Louis

Monday, Sept. 29  
Hydrophobically-modified Polyacrylamides Prepared by Water-free Emulsion Polymerization and Their Application in Enhanced Oil Recovery  
Zun Chen  
Department of Chemistry  
Missouri University of Science and Technology

Monday, Oct. 6  
Conversion of Electrodeposited  $\text{Co}(\text{OH})_2$  to  $\text{CoOOH}$  and  $\text{Co}_3\text{O}_4$  and a Comparison of their Catalytic Activity for the Oxygen Evolution Reaction  
Ying-Chau Liu  
Department of Chemistry  
Missouri University of Science and Technology

Monday, Oct. 13  
Accelerating Functional Genomics Using Mass Spectrometry  
Dr. Trent R. Northen  
Lawrence Berkeley National Laboratory  
Berkeley, Ca.

Monday, 20 October 2014  
The Colorful Chemistry of Chromogenics

Dr. Harlan Byker  
CEO, Pleotint  
Jenison, Mich.

Monday, Oct. 27

The Challenges and the Fun of Internal Rotation in Rotational Spectroscopy

Dr. Peter Groner

Department of Chemistry

University of Missouri-Kansas City

Monday, Nov. 3

Cathode Materials for Lithium-Ion Batteries

Hooman Yaghoobnejad Asl

Department of Chemistry

Missouri University of Science and Technology

Monday, Nov. 10

Innovative Applications of Polymeric Materials in Microelectronic Devices - An Overview of Brewer Science Technologies

Dr. Tony D. Flaim

Brewer Science, Inc.

Monday, Nov.17

Synthesis and Characterization of Vanadium Oxide Nanomaterials for Li-ion Battery Cathodes

Tyler Fears

Department of Chemistry

Missouri University of Science and Technology

Monday, Nov. 24

Thanksgiving Vacation – No Seminar

Monday, Dec. 1

Effects of the Novel Thiol Antioxidant *N*-acetylcysteineamide Eyedrops on Reversing Sodium Selenite-induced Cataracts in Wistar Rats

Sri Krishna Yasaswi Maddirala

Department of Chemistry

Missouri University of Science and Technology

Monday, Dec. 8

The Use of Polymeric Photorefractive Materials to Correct Phase Aberations

Yichen Liang

Department of Chemistry

Missouri University of Science and Technology