We will begin momentarily at 2pm ET

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http://ycc.sites.acs.org/catalyzethevote.htm
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Thursday, June 22, 2017

Chemistry and the Economy: Mid-Year Update
Paul Hodges, Chairman, International eChem
William Carroll, Adjunct Professor of Chemistry, Indiana University and Former Board Chair and President, American Chemical Society

Thursday, June 29, 2017

Tuberculosis: An Introduction for Medicinal Chemists
Co-produced with ACS Medicinal Chemistry Division and AAPS
Carl Nathan, MD, R.A. Rees Pritchett Professor and Chairman of the Department of Microbiology and Immunology, Weill Cornell Medicine
Christopher Boyce, Associate Principal Scientist, Merck

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“Exploring Alternative Careers in Chemistry: Part 2”

Rachel Mohler
Senior Chemist, Petroleum Materials Characterization, Chevron

Kristen Kulinowski
Board Member, U.S. Chemical Safety Board

Teresa Fryberger
Senior Director, Chemical Sciences & Technology Board, National Academy of the Sciences

Jyllian Kemsley
Senior Editor, Chemical & Engineering News

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Rachel Mohler, Senior Chemist
Petroleum Materials Characterization, Chevron unit
rmohler@chevron.com

All about Me

• Not satisfied with black boxes!

• Obtained B.S. Chemistry from UCR
  – Inorganic or Analytical chemistry?

• Obtained a Ph.D. Analytical Chemistry
  from University of Washington
  – Biochemistry or Petroleum?
  – Chemometrics? (insert poll on definition of
    chemometrics)

• Hired by Chevron in 2007 as a Research
  Scientist
  – Upstream, Downstream or Environmental?
  – Lab rat, project manager or consultant?
Current Role

- Environmental
  - Advocacy
  - Data Interpretation
    - Source of material
    - Build models to convert spectral data into concentrations

- Downstream
  - Predictive Chemometric Models
    - Crude properties
    - Product blending

Soft Skills Are Required

- Relationships matter
  - Be friendly
  - Smile
  - Be a good listener

- It’s all about working as a team
What soft skills would you like to most improve upon?
(multiple correct answers possible)

- Communication skills
- Time management
- Problem solving
- Adaptability
- Other (type your response in the chat window)
What alternative career paths are of interest to you?

- Government and science policy
- Science journalism and communication
- Chemistry and the law or IP
- Consulting
- Other (type your response in the chat window)
Education/Background

- Bachelors in Chemistry, University of Oklahoma
- PhD in Physical Chemistry, Northwestern University
- NRC Postdoctoral Fellow at National Institute of Standards and Technology
- Brief experience as associate book review editor at Science
- 20 years in government service at NIST, DOE, OSTP, NASA

Current Responsibilities

- Leads National Academies activities on chemical science and engineering issues, including
  - Board on Chemical Sciences and Technology (BCST)
  - Chemical Sciences Roundtable (CSR)
- Oversees studies of important national issues in the chemical sciences
- Responsible for raising/managing the funding for the activities and staff
Skills/Traits Required

• Scientific background but broad interests
• Communication skills - especially writing
• Big picture thinking
• People skills
• High degree of integrity

Resources

Happy to be contacted! tfryberger@nas.edu

For information on BCST: http://dels.nas.edu/bcst

For information about the Academies:
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For job announcements:
http://www.nationalacademies.org/humanresources/
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