

We will begin momentarily at 2pm ET



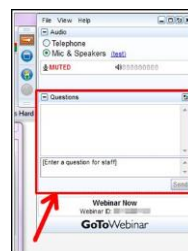
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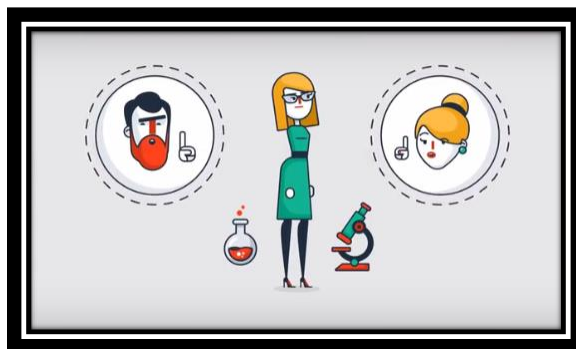
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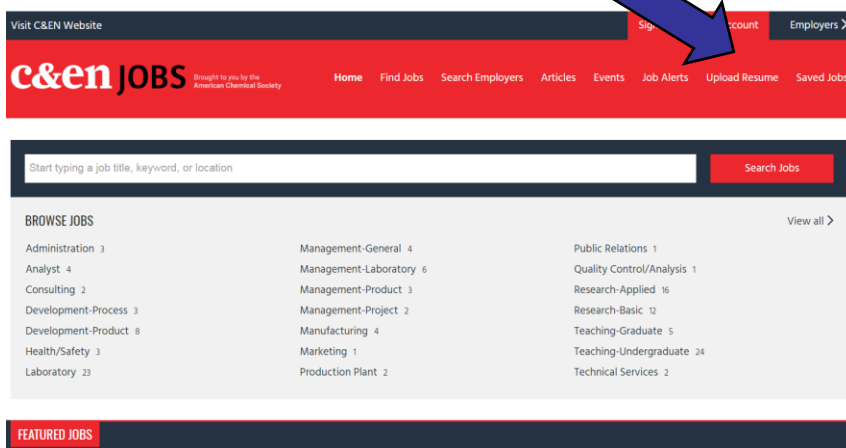
- Know your career options
- Develop strategies to strengthen your skills
- Map a plan to achieve your career goals

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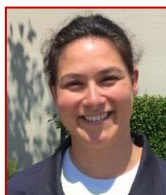
Christopher Boyce, Associate Principal Scientist, Merck

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“Exploring Alternative Careers in Chemistry: Part 2”



Rachel Mohler
Senior Chemist, Petroleum Materials
Characterization, Chevron



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



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



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

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All about Me

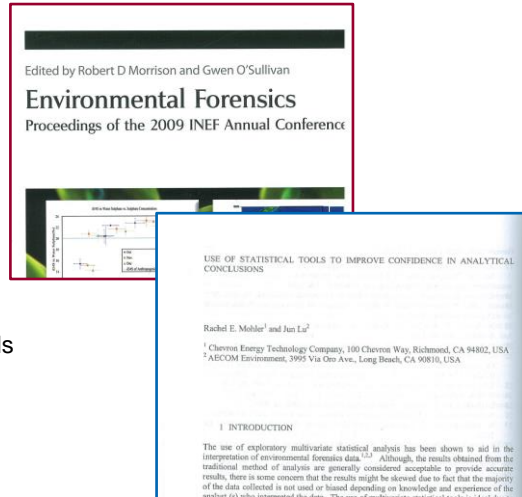
- **Not satisfied with black boxes!**
- **Obtained B.S. Chemistry from UCR**
 - Inorganic or Analytical chemistry?
- **Obtained a Ph.D. Analytical Chemistry from University of Washington**
 - Biochemistry or Petroleum?
 - Chemometrics? (insert poll on definition of chemometrics)
- **Hired by Chevron 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**



Audience Survey Question

ANSWER THE QUESTION ON BLUE SCREEN IN ONE MOMENT



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)


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Kristen Kulinowski, Board Member
U.S. Chemical Safety Board
Kristen.Kulinowski@csb.gov, @Kulinowski


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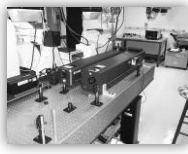
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U.S. Chemical Safety and
Hazard Investigation Board

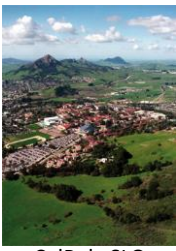
Member Kristen M. Kulinowski






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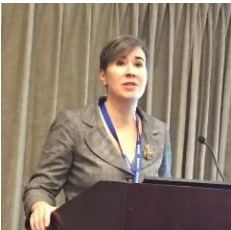


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Hazard Investigation Board


Member Kristen M. Kulinowski




K




H



J



I



K

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Audience Survey Question

ANSWER THE QUESTION ON BLUE SCREEN IN ONE MOMENT



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)

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Teresa Fryberger, Senior Director
Board on Chemical Sciences and Technology,
National Academy of the Sciences
tfryberger@nas.edu

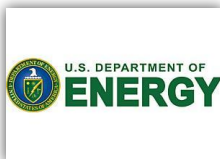
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Education/Background

- 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



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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

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Skills/Traits Required

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



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Resources

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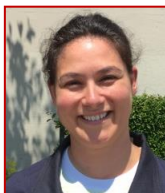
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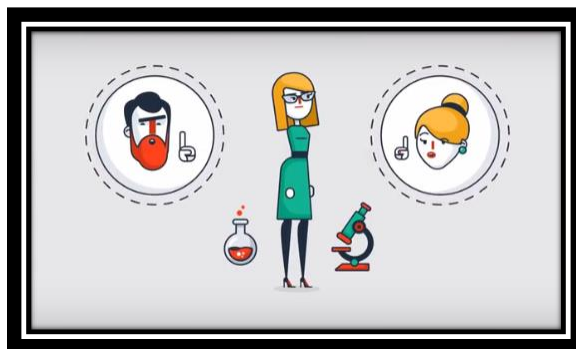
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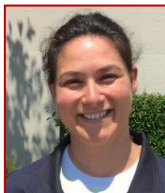


**Jyllian Kemsley, Senior Editor,
Chemical & Engineering News**
j_kemsley@acs.org, @jkemsley

<https://cen.acs.org>

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