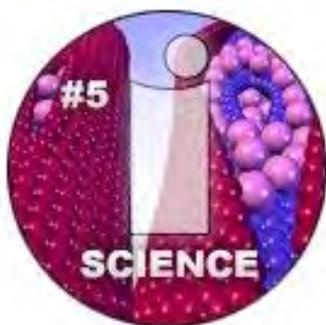


ACS WEBINARS - June 2017

Thursday, June 1, 2017 @ 2 - 3 pm ET

Advances in Graphene Nanotechnology: Making the Paralyzed Walk

Part five of the [2017 Industrial Science Series](#)



Sometimes trying radical ideas can afford radical advances, but it is also best if it is grounded in rational conjectures based upon known phenomenon. Join James Tour and William Sikkema of Rice University as they describe how one drop of graphene nanoribbons dispersed in poly(ethylene glycol) restores near perfect mobility to rats that have had their spinal cords completely severed in

two. This recent discovery has important implications for those with spinal cord injuries that have induced paralysis.

What You Will Learn

- How to make rats recover from spinal cord scission using advanced materials and the implications for humans
- Why this treatment works and is so effective in current studies
- What led us into this research and story behind the discovery

Additional Resources

- [Graphene nanoribbons show promise for healing spinal injuries](#) - Rice University

Webinar Details

- Date: Thursday, June 1, 2017 @ 2-3pm ET
- Fee: Free to Attend
- Download Slides: Available Day of Broadcast

Experts



[James Tour](#)

Rice University



[William Sikkema](#)

Rice University



[Mark Jones](#)

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ACS Committee on Corporation Associates

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Thursday, June 8, 2017 @ 2:00 pm ET

HPLC Method Development Bootcamp: A Straight-Forward Approach to Solve 80% of Separation Problems



High-performance liquid chromatography is supposed to be complicated, right? Imagine trying to find the correct mobile phase, stationary phase, column length, diameter, particle size, solvent strength, buffer, pH, etc. But it is a lot simpler than people think. The majority of HPLC analyses can be accomplished on a good reversed phase column with the correct acetonitrile/water or methanol/water gradient. The major limitation is often our knowledge of HPLC fundamentals

What You Will Learn

- How to develop an HPLC method from scratch
- How to choose the correct gradient conditions
- What is the impact of different column dimensions (length, diameter and particle size)

Additional Resources

- Lee's first broadcast: [Unveiling the Mysteries Behind HPLC and GC Resolution: From Theory to Practice in 30 minutes](#)

Webinar Details

- Date: Thursday, June 8, 2017 @ 2-3pm ET
- Fee: Free to Attend
- Download Slides: Available Day of Broadcast

Experts



[Lee Polite](#)
Axion Analytical Labs



[Bryan Tweedy](#)
American Chemical Society

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[ACS Professional Education](#)



Thursday, June 15, 2017 @ 2:00 pm ET

Exploring Alternative Careers in Chemistry

Part 2



With more uncertainty in the job market for traditional research jobs than in the past, alternative career paths are becoming more attractive. Join us for the second part of our series that seeks to help chemists find employment outside of the bench as we gather a diverse panel that includes Rachel Mohler of Chevron, Teresa Fryberger of the National Academy of Sciences, Mary Beth Mulcahy of the Chemical Safety Board, and Jyllian Kemsley of *Chemical & Engineering News*. The panelists will expose you to several distinct fields that rely fundamentally on chemistry. If you have not been thinking about such possibilities, this broadcast will give you the opportunity to hear from chemists working in nontraditional positions as well as add your own voice to the discussion.

What You Will Learn

- How to plan for a chemistry career that might not involve any time in the lab
- Three examples of jobs for chemists that exist outside of the traditional path
- Additional skills that could be useful in a non-traditional career

Webinar Details

- Date: Thursday, June 15, 2017 @ 2-3pm ET
- Fee: Free to Attend
- Download Slides: Available Day of Broadcast

Experts



[Teresa Fryberger](#)
National Academy of Sciences



[Mary Beth Mulcahy](#)
Chemical Safety Board



[Rachel Mohler](#)
Chevron



[Jyllian Kemsley](#)
Chemical & Engineering News

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Younger Chemists
Committee



Thursday, June 22, 2017 @ 2:00 pm ET

Chemistry and the Economy: Mid-Year Update



Join Paul Hodges of International eChem and former Chair of the ACS Board William Carroll as they return to give their take on the factors affecting the market and what these mean for you. Join us for an update on what is happening with the oil market, how policy in China will affect supply and demand, cover the latest round of mergers as well as what other factors are in play.

What You Will Learn

- Why the oil market is on shaky ground, and how that could lead to major geopolitical tensions where prices could fall back to median historical levels
- Why global deflation may be underway due to China's prioritization of pollution clean-up as a flagship policy
- Why we must “be prepared” and expect the unexpected as a winning strategy for the rest of 2017

Webinar Details

- Date: Thursday, June 22, 2017 @ 2:00-3:00pm ET
- Fee: Free to Attend
- Download Slides: Available Day of Broadcast

Experts



[Paul Hodges](#)
International eChem



[William Carroll](#)
Former Chair of the Board of ACS