

# C&EN picks speakers and symposia to catch in Philadelphia



**Lydia Contreras,**  
**University of Texas at Austin**  
Harnessing RNA as a built-in biosensor



**Sambeeta Das,**  
**University of Delaware**  
Using magnetic micromotors to steer signaling molecules



**Domenic Di Mondo,**  
**GreenMantra Technologies**  
Depolymerizing plastic to make additives that can boost recycled content



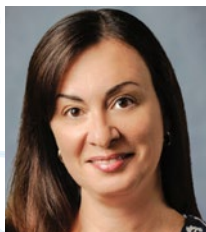
**Ulrica Edlund,**  
**KTH Royal Institute of Technology**  
Developing materials for clean air and water



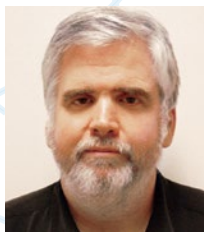
**Millicent Firestone,**  
**Los Alamos National Laboratory**  
3-D printing shape-changing nanoparticle composites



**Aaron Frank,**  
**University of Michigan**  
Speeding up molecular dynamics simulations to work with biological systems



**Maria Gallardo-Williams,**  
**North Carolina State University**  
Improving inclusion in the classroom by using virtual reality



**Eric Garber,**  
**US Food and Drug Administration**  
Detecting 15 food allergens, plus gluten, in a single assay



**Terry Hazen,**  
**University of Tennessee, Knoxville**  
Sequencing underground microbes to predict unconventional oil and gas activity



**Jennifer Johnston,**  
**Merck & Co.**  
Using computational analysis of peptide macrocycles to guide drug design



**Gavin Jones,**  
**IBM**  
Closing the loop on plastics recycling with computational chemistry



**Bart Kahr,**  
**New York University**  
Making new polymorphs of pretty much any molecular crystal



**Niveen Khashab,**  
**King Abdullah University of Science and Technology**  
Fine-tuning the microporosity of supramolecular structures



**Tamar Kohn,**  
**Swiss Federal Institute of Technology Lausanne (EPFL)**  
Measuring how ozone inactivates waterborne viruses



**Carmelo La Rosa,**  
**University of Catania**  
Explaining how amyloids and intrinsically disordered proteins damage membranes



**Kimberley Lentz,**  
**Bristol-Myers Squibb**  
Predicting the correct human dose for drugs



**Kang Liang,**  
**University of New South Wales**  
Combining enzymes and metal-organic frameworks to make tunable biocatalysts



**Joshua Pottel,**  
**Molecular Forecaster**  
Finding better asymmetric catalysts with virtual screening



**Kathleen Reape,**  
**Spark Therapeutics**  
Getting a gene therapy approved



**Robert Strongin,**  
**Portland State University**  
Analyzing aerosols formed from cannabis extracts during vaping

The program can be overwhelming. Here are a few symposia to get you started.

Title	Description	Time
<b>Graph Theory Underpinning New Domains of Physical Chemistry</b>	Machine learning can reveal the what of data correlations but can't explain the why. For that, there's graph theory.	Sunday a.m./p.m., Monday a.m.
<b>Food Packaging Materials: Safety, Active Packaging &amp; Sustainability</b>	Scientists will describe developments to make packaging materials that keep food safe and fresh	Sunday a.m./p.m., Monday a.m./p.m., Tuesday a.m.
<b>Chemical Safety Film Festival</b>	Come learn what makes a good safety video, and watch excerpts from some of the best.	Sunday p.m.
<b>Scientists Running for Public Office</b>	In this panel discussion, scientist candidates will describe their experiences on the campaign trail.	Sunday p.m.
<b>Meet C&amp;EN's 2020 Trailblazers: The Women Reshaping Chemistry's Start-Up Landscape</b>	This symposium featuring women entrepreneurs will be preceded by a Power Hour breakfast co-hosted by the Gordon Research Conferences.	Monday a.m.
<b>Strategies for Optimizing &amp; Predicting Human Dose</b>	Pharma scientists will talk about the challenges of accurately predicting the best dose for a drug early in the development process.	Monday a.m.
<b>Challenges &amp; Opportunities for Inclusive Chemistry Curriculum Design</b>	Educators will discuss how strategies such as course-based research experiences can lead to a more inclusive curriculum.	Monday a.m.
<b>Mental Health &amp; Graduate School</b>	This panel discussion will feature honest talk on the mental health challenges that graduate students face. Audience members will be able to participate in an anonymous Q&A moderated by C&EN.	Monday a.m.
<b>Re-envisioning Chemistry's Role in Environmental Sustainability: Perspectives on Progress &amp; Future Directions</b>	Chemists are key players in achieving environmental sustainability. This session will address issues such as green engineering, the circular economy, and critical education needs.	Tuesday a.m./p.m.
<b>Macromolecular Science at the Dawn of Its Second Century</b>	A century ago, the publication of Hermann Staudinger's macromolecular hypothesis launched the field of polymer chemistry. This symposium will look at the current state of the field and the challenges ahead.	Tuesday a.m./p.m., Wednesday a.m./p.m.

► C&EN's editorial team, not its BrandLab team, selected the speakers and symposia in this meeting guide. Senior Correspondent Celia Henry Arnaud spearheaded the effort.

## More online

To find more details about the dates and times for these presenters and symposia, visit [cenm.ag/2020philadelphia](https://cenm.ag/2020philadelphia)