

2018

# NANOSCIENCE, NANOTECHNOLOGY & BEYOND

Aug. 19-23 | Boston | MA

AMERICAN CHEMICAL SOCIETY  
National Meeting & Exposition

# CHEMISTRY TEACHER PROGRAM

## REASONS TO ATTEND **the ACS National Meeting in Boston**

- Reduced registration price for middle school and high school teachers
- All day Sunday and Monday afternoon programming specifically for teachers
- Networking opportunities with fellow chemistry teachers and professors and industry professionals
- Earn Professional Development Hours
- Full access to the chemistry teacher program AND the exposition AND the entire ACS meeting!

### WHAT TEACHERS HAVE ENJOYED ABOUT PAST PROGRAMS:

“Hands on was excellent with emphasis on low cost materials”

“Thank you so much for this helpful and engaging teacher workshop. SO MUCH great info!”

“Loved the practical applications done by real teachers.”

“Great energy, session explained from a teacher’s perspective w/ teaching in mind”

Visit [www.acs.org/chemistryteacherprogram](http://www.acs.org/chemistryteacherprogram) for more information



**ACS**  
Chemistry for Life®

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# SCHEDULE

## Chemistry Teacher Program

Sunday, August 19, 2018 | 8:30 AM - 5:00 PM | Seaport World Trade Center, Waterfront Ballroom 1/2

**Organizers:** Sherri Rukes and Ariel Serkin

8:35 - 9:00 AM	Chemistry science investigation: Dognapping. A workshop to inspire STEM students	Timothy Boyle
9:00 - 9:40 AM	Chemistry in three-dimensions (of NGSS): Connecting ideas, practices, and concepts - with data collection	Thomas Loschiavo
9:40 - 10:10 AM	Development of the flame test concept inventory: Measuring student thinking about atomic emission	Stacey Lowery Bretz
10:20 - 10:45 AM	Pathways to entrepreneurship in sustainability and chemistry	Stafford Sheehan
10:45 - 11:25 AM	Experimenting with algae in the classroom	Andrew Potter
11:25 - 11:55 AM	Lab practicals as common summative assessments	Christopher Koutros
1:00 - 1:35 PM	Assessing student growth in chemistry using standards based grading	Michael Chapman
1:35 - 2:10 PM	Inquiry lab into the nature of color: Student design and discovery	Heather Zimmer
2:10 - 2:45 PM	More "bang for the buck": Short laboratory activities to explore multiple concepts	Sharon Palmer
2:50 - 3:15 PM	Discovery learning: Development of a unique active learning environment for introductory chemistry	William Lacourse
3:15 - 3:45 PM	Chemistry is out of this world!	Karen M. Kaleuati
3:45 - 4:10 PM	Metal-organic framework nanospheres for smart drug delivery	Chia-Kuang Tsung
4:15 - 4:55 PM	Organizing chemistry instruction around scientific models	Teresa Marx

## From Nano to Macro: How to Let Students Discover the Applications of Materials

Monday, August 20, 2018 | 1:30 PM - 5:30 PM | Seaport World Trade Center, Waterfront Ballroom 3

**Organizer:** Sherri Rukes

1:30 - 2:35 PM	From nano to macro: A make and take session of multiple demo aids	Sherri Rukes
2:35 - 2:50 PM	Using nanotechnology to teach high school chemistry concepts	Sherri Rukes
2:50 - 3:20 PM	Playing with "nano-blocks" enables learning about environmental applications of nanotechnology	Anjali Mulchandani
3:25 - 3:55 PM	Biomimicry: Inventions and innovations inspired by nature	Eric Nash & Sarah McCarron-Stewart
3:55 - 4:25 PM	Microscopic mycelium: Growing sustainable design solutions	Raksmeiy Derival
4:25 - 4:55 PM	Sustainable textiles: Threads that connect us all	Sarah McCarron-Stewart
4:55 - 5:30 PM	The secrets of sharks' skin	Kate Anderson & Ann Lambert

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