

ACS-NSF Colloquium
Perspectives in Chemistry: 150 Years of the Periodic Table

20 November 2019
National Academy of Sciences Building
2101 Constitution Avenue NW
Washington, DC 20006

9:00 am to 9:15 am	Welcoming Remarks
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9:15 to 10:05	History and Discovery What made Mendeleev unique? David Lewis, <i>University of Wisconsin – Eau Claire</i> Modern-day alchemy Jacklyn Gates, <i>Lawrence Berkeley National Laboratory</i>
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10:05 to 10:20	Q&A
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10:20 to 10:40	Break
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10:40 to 11:30	Today's Challenges: Sustainability Addressing Sustainability Challenges with Chemistry & Emerging Technology in Industry Research Jeannette Garcia, <i>IBM</i> Sustainable polymers in a circular materials economy Eugene Chen, <i>Colorado State University</i>
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11:30 to 11:45	Q&A
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11:45 to 12:45	Lunch Discussion Questions: <ul style="list-style-type: none">• <i>What are the top challenges to diversifying the chemistry enterprise?</i>• <i>How can we overcome these challenges?</i>
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12:45 to 1:35	Today's Challenges: Energy Storage and Synthesis Harnessing the versatility of the periodic table for energy storage Amy Prieto, <i>Colorado State University</i> Making molecules Malika Jeffries-El, <i>Boston University</i>
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1:35 to 1:50

Q&A

1:50 to 2:40

Tomorrow's Opportunities: High Throughput Experimentation & Automation

Synthesis for all

Martin Burke, *University of Illinois at Urbana-Champaign*

Industrial/academic collaborations to power discoveries in chemistry

Gary Molander, *University of Pennsylvania*

2:40 to 2:55

Q&A

2:55 to 3:15

Break

3:15 to 4:05

Tomorrow's Opportunities: Quantum Computing and Chemical Engineering

The promise of quantum computing for chemistry

Ryan Babbush, *Google*

What is chemical engineering in the 21st century?

Eric Kaler, *University of Minnesota*

4:05 to 4:20

Q&A

4:20 to 5:20

Panel Discussion

5:20 to 5:30

Closing Remarks/Wrap Up

5:30 to 6:45

Reception