

**Summer School on Green Chemistry and Sustainable Energy**  
**Colorado School of Mines**  
**July 10-17, 2018**  
**Marquez Hall 326**

**Daily Schedule**

**Tuesday, July 10**

- 10:00 AM-5:00 PM    Check in  
Maple Hall Lobby
- 7:00 PM              Opening BBQ  
Stratton Commons (Illinois Street between 14<sup>th</sup> and 15<sup>th</sup> Streets)

**Wednesday, July 11**

- 7:30-8:30 AM        Breakfast, Mines Market
- 9:00 AM              Welcome and Introductions  
Green Chemistry: Principles and Practice  
Mary Kirchhoff, American Chemical Society
- 10:30 AM             Break
- 11:00 AM             Systems Thinking in Chemistry: Part I  
Jim Hutchison, University of Oregon
- 12:30 PM             Lunch, Mines Market
- 1:30 PM               Biomass Utilization: Opportunities and Challenges  
Josh Schaidle, National Renewable Energy Laboratory
- 3:00 PM               Break
- 3:30 PM               Writing Competitive Research Grant Proposals  
Nancy Jensen, ACS Petroleum Research Fund
- 5:00-6:30 PM        Dinner, Mines Market

**Thursday, July 12**

- 7:30-8:30 AM Breakfast, Mines Market
- 9:00 AM Fuel Cells  
Bryan Pivovar, National Renewable Energy Laboratory
- 10:30 AM Break
- 11:00 AM Building Your Own Business, Part I: From Green Science to Green Innovation  
Eric Beckman, University of Pittsburgh
- 12:30 PM Lunch, Mines Market
- 1:30 PM Zen and How to Get a Job, Keep a Job, and Maybe even Prosper in the Chemical Sciences!!  
Ryan Richards, Colorado School of Mines
- 3:00 PM Break
- 3:30 PM Systems Thinking in Chemistry: Part II  
Jim Hutchison, University of Oregon
- 5:00-6:30 PM Dinner, Mines Market
- 7:30 PM Poster Session I  
Coolbaugh Hall Atrium

**Friday, July 13**

- 7:30-8:30 AM Breakfast, Mines Market
- 9:00 AM Choosing the Greenest Synthesis  
Philip Jessop, Queen's University
- 10:30 AM Break
- 11:00 AM ACS Resources for Graduate Students and Postdoctoral Scholars  
Joerg Schlatterer
- 12:30 PM Lunch, Mines Market
- 1:30 PM Building Your Own Business, Part II: Building the Enterprise  
Eric Beckman, University of Pittsburgh
- 3:00 PM Break

3:30 PM	Greening Fossil Fuels Joan Brennecke, University of Texas at Austin
5:00-6:30 PM	Dinner, Mines Market
7:30 PM	Poster Session II Coolbaugh Hall Atrium
<b>Saturday, July 14</b>	<b>Rafting!</b>
<b>Sunday, July 15</b>	
7:30-8:30 AM	Breakfast, Mines Market
9:00 AM	Sustainable and Green Chemistry by Design David Constable, ACS Green Chemistry Institute
10:30 AM	Break
11:00 AM	Energy Applications of Ionic Liquids Joan Brennecke, University of Texas at Austin
12:30 PM	Lunch, Mines Market
1:30 PM	Greener Solvents Philip Jessop, Queen's University
3:00 PM	Break
3:30 PM	Choosing the Greenest Synthesis Working Session
5:00-6:30 PM	Dinner, Mines Market
<b>Monday, July 16</b>	
7:30-8:30 AM	Breakfast, Mines Market
8:30 AM	Choosing the Greenest Synthesis Reporting Out
10:00 AM	Break
10:30 AM	TBD
12:00 PM	Lunch, Mines Market
1:00 PM	Greening Your Research – Practical Tools You Can Use Now

David Constable, ACS Green Chemistry Institute

2:30 PM

Wrap-up, Evaluations, and Break

7:00 PM

Closing Dinner and Presentation of Certificates  
Student Center, Ballroom DE