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**Summer School on Green Chemistry and Sustainability
July 22-30, 2009
Colorado School of Mines**

Daily Schedule

Wednesday, July 22

7:00-10:00 PM Opening Dinner, Commons Area (Illinois Street between 14th and 15th Streets)

Thursday, July 23

7:00-9:00 AM Breakfast, Slate Café

Coolbaugh Hall, Room 209

9:00 AM Introductions and Overview
Mary Kirchhoff, American Chemical Society
Kent Voorhees, Colorado School of Mines

10:00 AM Green Chemistry Principles
John Warner, Warner Babcock Institute for Green Chemistry

11:00 AM Break

11:30 AM Introduction to Metrics for Chemical Professionals
Eric Beckman, University of Pittsburgh

12:30 PM Discussion

1:00 PM Lunch, Slate Café

Coolbaugh Hall, Room 209

2:00 PM TBA
John Turner, National Renewable Energy Lab

3:00 PM Discussion

3:30 PM Break

4:00 PM Green Chemistry and Engineering Principles in Pharmaceutical R&D
Buzz Cue, BWC Pharma Consulting, LLC

5:00 PM Discussion

6:30 PM Alpine Conservation Partnership Reception

Friday, July 24

7:00-9:00 AM Breakfast, Slate Café

Coolbaugh Hall, Room 209

9:00 AM	Entropic Control Entrepreneurship and Innovation John Warner, Warner Babcock Institute for Green Chemistry
10:00 AM	Discussion
10:30 AM	Break
11:00 AM	Greening the Supply Chain: Challenges and Opportunities Roger McFadden, Staples
12:00 PM	Discussion
12:30 PM	Lunch, Slate Café
1:30 PM	Crops: A Green Approach toward Self-Assembled Soft Materials George John, The City College of New York
2:30 PM	Discussion
3:00 PM	Break
3:30 PM	Emerging Technologies that Deliver a Greener Footprint for Pharmaceuticals Buzz Cue, BWC Pharma Consulting, LLC
4:30 PM	Discussion
5:00 PM	Examining the Green Chemistry Literature Mary Kirchhoff, American Chemical Society
6:00 PM	Dinner
7:30 PM	Line Dancing

Saturday, July 25

- 7:00-9:00 AM Breakfast, Slate Café
- 9:00 AM - 12:00 PM Morning free for Buffalo Bill Days
Parade starts at 10:00 AM
- 12:00 - 1:00 PM Lunch, Slate Café

Coolbaugh Hall, Room 209

- 1:00 PM Product Design
Eric Beckman, University of Pittsburgh
- 2:00 PM Discussion
- 2:30 PM Break
- 3:30 PM Greener Solvents
Philip Jessop, Queen's University
- 4:30 PM Discussion
- 5:00 PM Inspired by Nature
Tom Lane, American Chemical Society
- 6:30 PM Dinner, Slate Café

Sunday, July 26

- 7:00-9:00 AM Breakfast, Slate Café
- 9:00 AM - 12:00 PM Morning free for outdoor activities
- 12:00-1:00 PM Lunch, Slate Café
- 1:00 PM Choosing the Greenest Synthesis (Part I)
Philip Jessop, Queen's University
- 2:30 PM Break
- 3:00 PM Examining the Green Chemistry Literature
Student Presentations
- 4:00 PM Green Chemistry Education
Jim Hutchison, University of Oregon
- 5:00 PM Discussion
- 5:30 PM Dinner, Slate Café

Monday, July 27

7:00-9:00 AM Breakfast, Slate Café

Coolbaugh Hall, Room 209

9:00 AM Choosing the Greenest Synthesis (Part II)
Philip Jessop, Queen's University

10:30 AM Break

11:00 AM Green Separations
Kim Williams, Colorado School of Mines

12:00 PM Discussion

12:30 PM Lunch, Slate Café

1:30 PM Lab Overview
Scott Cowley, Colorado School of Mines

Coolbaugh Hall, Labs

2:00 PM Green Chemistry Experiments

6:00 PM Dinner, Slate Café

7:30 PM Poster Session I, Coolbaugh Hall Atrium

Tuesday, July 28

7:00-9:00 AM Breakfast, Slate Café

Coolbaugh Hall, Room 209

9:00 AM Photovoltaics
Reuben Collins, Colorado School of Mines

10:00 AM Discussion

10:30 AM Break

11:00 AM Green Nanoscience
Jim Hutchison, University of Oregon

12:00 PM Discussion

12:30 PM Lunch, Slate Café

1:30 PM Field Trip: Research and Testing at Staples (Tentative)

6:00 PM Dinner, Slate Café

7:30 PM Poster Session II, Coolbaugh Hall Atrium

Wednesday, July 29

7:00-9:00 AM Breakfast, Slate Café

Coolbaugh Hall, Room 209

9:00 AM Nanostructured Materials for Green Catalysis
Ryan Richards, Colorado School of Mines

10:00 AM Discussion

10:30 AM Break

11:00 AM Sustainability at New Belgium
Katie Wallace, New Belgium Brewery

12:00 PM Discussion

12:30 PM Lunch, Slate Café

1:30 PM Materials Approaches to Improvements for Advanced Low and Intermediate
Temperature Fuel Cells
Andy Herring, Colorado School of Mines

2:30 PM Discussion

3:00 PM Break

3:30 PM Wrap-Up: Certificates and Evaluations

7:00 PM Closing Dinner, Student Center, Ballrooms B and C
Green Chemistry: Science or Regulation?
Bill Carroll, American Chemical Society