

Energy and Movement in Coherent Chemical Systems

Organizers:

Jeffrey Rack (University of New Mexico)

Len MacGillivray (University of Iowa)

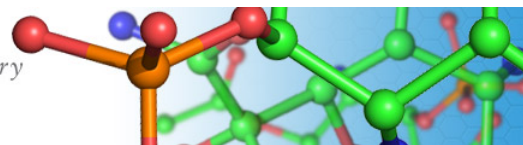
Telluride Science Research Center, Telluride, Colorado

July 4 - 8, 2016

Sponsors:



Department of Chemistry



Schedule: Energy and Movement in Coherent Chemical Systems

Organizers: Jeffrey Rack, Len MacGillivray; **TSRC Host:** Mark Kozak

Location: Telluride Elementary School at 447 W. Columbia Ave., Telluride CO 81435

Each presentation is 40 minutes with 20 minutes for discussion (postdoctoral fellows (PD): 20 min w/10 min discussion)

Monday, 4 July	Speaker/Event	Title
8:30 – 9:00 am	TSRC Catered Breakfast	
<i>9:00 am – 12:20 pm</i>	<i>Moderator</i>	<i>w/Introductory Remarks (Jeffrey Rack, Len MacGillivray)</i>
9:00 – 10:00 am	Chris Barrett	Polymers with Azo Dyes, to Bend and Wiggle, Walk and Roll
10:00 – 10:20 am	<i>Break</i>	
10:20 – 11:20 am	Len Barbour	Structural Flexibility in the Solid State
11:20 – 12:20 pm	Jacqui Cole	Molecular Engineering of Nano-Optomechanical Transducers
12:20 pm – 1:20 pm	TSRC Catered Lunch	
<i>1:30 – 4:40 pm</i>	<i>Moderator</i>	
1:30 – 2:30 pm	Art Bragg	Photochemical Pathways to Mechanical Motion with Thienyl-Ethene Photoswitches
2:30 – 3:30 pm	Chris Bardeen	From Molecular-Scale Reaction Dynamics to Macroscale Shape Changes in Anthracene-Based Photomechanical Crystals
3:30 – 3:40 pm	<i>Break</i>	
3:40 – 4:40 pm	Steve Loeb	Organizing Mechanically Interlocked Molecules to Function Inside Metal-Organic Frameworks
5:00 – 7:00 pm	<i>Dinner in town</i>	Note: July 4 th celebrations occurring in town.

Tuesday, 5 July	Speaker/Event	
8:30 – 9:00 am	TSRC Catered Breakfast	
9:00 – 12:40 am	<i>Moderator</i>	
9:00 – 10:00 am	Mark Hollingsworth	Compression and Self-Compression in Channel Inclusion Compounds
10:00 – 10:30 am	Giorgio Baggi (PD)	Supramolecular Enhancement of Photochromism in Mechanically Interlocked Molecules
10:30 – 10:40 am	<i>Break</i>	
10:40 – 11:40 am	Jason Benedict	Shining Light on Photo-Responsive Metal-Organic Frameworks
11:40 am – 12:40 pm	Jeffrey Rack	Photonastic Soft Materials
12:40 – 1:40 pm	TSRC Catered Lunch	
1:40 – 5:30 pm	<i>Free Time/Explore</i>	
6:00 – 7:15 pm	TRSC Town Talk/Free Public Lecture: “Science and Healthcare: This Time It’s Personal”, Paul O’Shea, University of British Columbia (cash bar at 5:30 pm), Telluride Conference Center	
7:30 – 9:00 pm	<i>Dinner in town</i>	

Wednesday, 6 July	Speaker/Event	
8:30 – 9:00 am	TSRC Catered Breakfast	
9:00 – 12:20 pm	<i>Moderator</i>	
9:00 – 10:00 am	Pance Naumov	Crystals on the Move
10:00 – 10:20 am	<i>Break</i>	
10:20 – 11:20 am	Kazushi Kinbara	Design of Stimuli-Responsive Molecular Materials based on PEG-based Macrocycles
11:20 – 12:20 pm	Tomislav Friscic	New Opportunities for Photo- and Thermo-Mechanical Materials are Crystal Clear
12:20 – 1:20 pm	TSRC Catered Lunch	
1:30 – 4:40 pm	<i>Tomislav Friscic, moderator</i>	
1:30 – 2:30 pm	Ted Burkey	Mechanisms of Light Driven Ultrafast Linkage Isomerization: Structural Limitations and Requirements
2:30 – 3:30 pm	Ted Heilweil	Time-Resolved Infrared Spectroscopy: Ultrafast Measurement of Organometallic Photoswitches and Vibrational Coherent Control of Bond Dissociation
3:30 – 3:40 pm	<i>Break</i>	
3:40 – 4:40 pm	Rick Chu	Organic Materials Constructed Using Supramolecular Principles: From Hydrogen-Bonded Frameworks to Polycyclobutanes
6:00 – 8:00 pm	TSRC Picnic Dinner adjacent to Elementary School (scientists, families, and guests welcome)	

Thursday, 7 July	Speaker/Event	
8:30 – 9:00 am	TSRC Catered Breakfast	
9:00 – 12:20 pm	<i>Moderator</i>	
9:00 – 10:00 am	Alexei Tivanski	Study of Mechanical Properties of Macro- and Nano-Dimensional Solids
10:00 – 10:20 am	<i>Break</i>	
10:20 – 11:20 am	Benjamin King	Two-Dimensional Polymers by Linking Pre-Organized Monomer Lattices
11:20 – 12:20 pm	Len MacGillivray	How Solid is the Organic Solid State?: Insights from Solid-State Reactions
12:20 – 1:00 pm	Discussion/Business	
1:00 – 2:00 pm	<i>Lunch in Town</i>	
2:00 – 5:00 pm	<i>Free Time/Explore</i>	
5:30 pm	<i>Banquet - New Sheridan Chop House</i>	

TSRC: Energy and Movement in Coherent Chemical Systems

July 4-8, 2016

CONTACT INFORMATION

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