

# Breaking and Making Bonds with Light

*Organizers:*

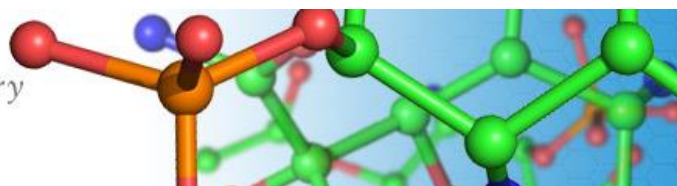
*Jeffrey Rack (University of New Mexico)*

*Jason Benedict (University at Buffalo, SUNY)*

*Telluride Science Research Center, Telluride, Colorado*

*July 9 - 12, 2018*

We gratefully acknowledge the financial support of our sponsors:



## Schedule: Breaking and Making Bonds with Light

**Organizers:** Jeffrey Rack, Jason Benedict; **TSRC Host:** Mark Kozak

**Location:** Telluride Intermediate School at 725 W. Colorado Ave., Telluride CO 81435

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

<b>Monday, 9 July</b>	<b>Speaker/Event</b>	<b>Title</b>
8:30 – 9:00 am	<b>TSRC Catered Breakfast</b>	
9:00 am – 12:20 pm	<i>Moderator</i>	<i>w/Introductory Remarks (Jeffrey Rack, Jason Benedict)</i>
9:00 – 10:00 am	Chris Bardeen	Using photochromism to modulate material mechanical properties
10:00 – 10:20 am	<i>Break</i>	
10:20 – 11:20 am	Arri Priimagi	Liquid crystal elastomer photoactuators: towards autonomy, self-regulation and reconfigurability
11:20 – 12:20 pm	Elizabeth Harbron	Using Photochromism to Control Fluorescence in Conjugated Polymer Nanoparticles
12:20 pm – 1:20 pm	<b>TSRC Catered Lunch</b>	
1:30 – 4:40 pm	<i>Moderator</i>	
1:30 – 2:30 pm	Dan Patel	Naphthoquinone Diarylethenes: Synthetic Challenges and Optical Rewards
2:30 – 3:30 pm	Francisco Raymo	Activatable Fluorophores
3:30 – 3:40 pm	<i>Break</i>	
3:40 – 4:40 pm	Natia Frank	Opto-Spintronics: Gating Spin States With Light on the Ultrafast Timescale
5:00 – 7:00 pm	<i>Dinner in town</i>	

**Tuesday, 10 July****Speaker/Event**

8:30 – 9:00 am

**TSRC Catered Breakfast**

9:00 – 12:20 pm

*Moderator*

9:00 – 10:00 am

Mark Hollingsworth

Phase transitions and self-compression in channel inclusion compounds

10:00 – 10:20 am

*Break*

10:20 – 11:20 am

Amanda Morris

Photo-degradable Metal Organic Framework Nanocages for the  
Controlled Delivery of Therapeutics

11:20 – 12:20 pm

Benjamin King

TBD

12:40 – 1:40 pm

**TSRC Catered Lunch**

1:40 – 5:30 pm

*Free Time/Explore*

6:00 – 7:15 pm

TRSC Town Talk/Free Public Lecture: “TBD”, (cash bar at 5:30 pm), Telluride Conference Center

7:30 – 9:00 pm

*Dinner in town*

<b>Wednesday, 11 July</b>	<b>Speaker/Event</b>	
8:30 – 9:00 am	<b>TSRC Catered Breakfast</b>	
9:00 – 12:20 pm	<i>Moderator</i>	
9:00 – 10:00 am	Rabih Al-Kaysi	Photomechanical Molecular Crystals
10:00 – 10:20 am	<i>Break</i>	
10:20 – 11:20 am	Jacqui Cole	Molecular Engineering of Optical Switching and Optomechanical Transduction in Linkage photo-isomers
11:20 – 12:20 pm	Pance Naumov	Crystal Adaptronics: Mechanically Compliant and Adaptive Molecular Crystals
12:20 – 1:20 pm	<b>TSRC Catered Lunch</b>	
1:30 – 4:40 pm	<i>Moderator</i>	
1:30 – 2:30 pm	Javier Read de Alaniz	Design and development of negative photochromic material
2:30 – 3:30 pm	Alexis Ostrowski	Harnessing the photochemistry of metal coordination complexes for responsive materials
3:30 – 3:40 pm	<i>Break</i>	
3:40 – 4:40 pm	Jason Benedict	Engineering Photoactive Crystals
6:00 – 8:00 pm	TSRC Picnic Dinner adjacent to Elementary School (scientists, families, and guests welcome)	

<b>Thursday, 12 July</b>	<b>Speaker/Event</b>	
8:30 – 9:00 am	<b>TSRC Catered Breakfast</b>	
9:00 – 12:20 pm	<i>Moderator</i>	
9:00 – 10:00 am	Ted Heilweil	Ultrafast Dynamics of Functionalized [FeFe]-Hydrogenase Model Compounds and Molecular Photoswitches
10:00 – 10:20 am	<i>Break</i>	
10:20 – 11:20 am	Martial Boggio-Pasqua	Computational Investigation of the Complex Photochemistry of Photochromic Ruthenium Nitrosyl Complexes
11:20 – 1:00 pm	Lunch in town	
1:00 – 2:00 pm	Claudia Turro	Photoinduced Ligand Exchange from Ru(II) with Near-IR Light
2:00 – 2:20 pm	<i>Break</i>	
2:20 – 3:20 pm	Jeff Rack	Isomerization dynamics in Ruthenium Sulfoxide Complexes
3:20 – 4:30 pm	Discussion/Business	
5:30 pm	<i>Banquet – Village Table</i>	618 Mountain Village Blvd, Telluride, CO 81435 <a href="http://www.thevillagetablerestaurant.com">www.thevillagetablerestaurant.com</a>

## TSRC: Breaking and Making Bonds with Light

July 9-12, 2018

### CONTACT INFORMATION

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