

## Shape Responsive Fluorophores 2

Organizers:

**Kyril Solntsev** (404-358-8352) and **Ben Zhong Tang**

TSRC Host: Mark Kozak, 970-708-4426

Location:

Telluride Elementary School  
477 W Columbia Ave Telluride CO 81435

### Monday, June 22

7:30 pm Informal get-together at New Sheridan Bar.  
231 W Colorado Ave, Telluride, CO 81435.

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### Tuesday, June 23

7:30 - 8:30 am Breakfast @ TSRC

Morning session 8:30 am – 12:25 pm  
Ziad Ganim – Chair.

8:30 - 8:45 am. **Kyril Solntsev** and **Ben Zhong Tang**  
*Greetings from the organizers*

8:45 – 9:35 am **Zujin Zhao** (South China University of Technology, China)  
*Substituent Effect on the Aggregation-Induced Emission of Siloles.*

9:35 - 10:25 am **Kyril Solntsev** (Georgia Institute of Technology, USA)  
*Fluorescence imaging using synthetic GFP chromophores*

10:25 - 10:45 am Coffee break

10:45 - 11:35 am **Grigory Filonov** (Weill Cornell Medical College, USA)  
*Towards the full-color palette of RNA mimics of fluorescent proteins*

11:35am - 12:25 pm **Oh-Hoon Kwon** (Ulsan National Institute of Science and Technology, Korea)  
*Photoinduced Ultrafast Tautomerization of 8-Hydroxyquinoline in Water: the Origin of Ultraweak Fluorescence*

12:30 –1:30 pm Catered Lunch @ TSRC

**Suggested afternoon activities: Drive (camping) to Hovenweep Natl Monument or Mesa Verde National Park.**

6 pm TSRC Town Talk. Elementary School (Steven Berry Tribute Town Talk and Open House). TSRC-sponsored picnic.

## Wednesday, June 24

**Suggested morning activities: Return from Hovenweep / Mesa Verde. Free time**

Afternoon session 1:30 pm – 5:10 pm

Tao Yi - Chair

- 1:30 - 2:20 pm **Ziad Ganim** (Yale University, USA).  
*Conformational Substates and Fluorescence Modulation in Single Molecules of Green Fluorescent Protein.*
- 2:20 - 3:10 pm **Ben Zhong Tang** (The Hong Kong University of Science and Technology)  
*Aggregation-Induced Emission: Photophysical Processes, Working Mechanisms, and High-Tech Applications.*
- 3:10 - 3:30 pm Coffee break.
- 3:30 - 4:20 pm **Francisco Raymo** (University of Miami, USA)  
*Photochemical Strategies to Activate Fluorescence.*
- 4:20 - 5:10 pm **Ehud Pines** (Ben Gurion University of Negev, Israel)  
*Controlling Reactivity by Remote Protonation of a Basic Side Group.*
- 6 pm. TSRC-sponsored Picnic/BBQ.

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## Thursday, June 25

**Suggested morning activities: Group hike to Bear Creek Trail**

Afternoon session 1:30 pm – 6:00 pm

Oh-Hoon Kwon - Chair

**Students day. The best presenter gets a prize!**

- 1:30 - 2:20 pm **Meijuan Jian** (The Hong Kong University of Science and Technology)  
*Fluorescent bioprobes with AIE characteristics for Bioimaging.*
- 2:20 - 3:10 pm **Tomislav Suhina** (University of Amsterdam, Netherlands)  
*Visualizing surface contacts with fluorescence: application and mechanistic study of free-volume sensitive molecules.*
- 3:10 - 3:30 pm Coffee break.
- 3:30 - 4:20 pm **Jianjun He** (Carnegie Mellon University, USA)  
*A NIR genetically targetable and activatable photosensitizer.*
- 4:20 - 5:10 pm **Elizabeth Santos** (Michigan State University, USA)  
*Design of Protein-Based Fluorescent Fusion Tags and pH.*
- 5:10 - 6:00 pm **Zhegang Song** (The Hong Kong University of Science and Technology)  
*Recent Advances in AIE-Based Chemo/Biosensors.*
- 6:30 pm Group Dinner at *Rustico Ristorante*. 114 E Colorado Ave, Telluride, CO, 81435. \$50/person. Best student talk award during the dinner.

## Friday, June 26

7:30 - 8:30 am Breakfast @ TSRC

Morning session 8:30 am – 12:10 pm  
Francisco Raymo – Chair.

- 8:30 – 9:20 am      **Mark Maroncelli** (Pennsylvania State University, USA)  
*Fundamental Aspects of Some Common Fluorescence Sensors: How They Work and What They Sense.*
- 9:20 – 10:10 am    **Tao Yi** (Fudan University, China)  
*Switchable fluorescent probes for sensing and imaging biomolecules.*
- 10:10 - 10:30 am    Coffee break
- 10:30 - 11:20 am    **Yong Min Rhee** (POSTECH, Korea)  
*Biomolecular environment for efficient fluorescence emissions: Understanding photodynamics through computer simulations.*
- 11:20am - 12:10 pm **Pance Naumov** (New York University Abu Dhabi, UAE)  
*Keto or Enol—That is the Question: Recent Progress in Spectra-Structure Correlations of Firefly Oxyluciferin and its Derivatives.*
- 12:10 –1:10 pm      Catered Lunch @ TSRC

**Suggested afternoon activities: Drive to Mt. Sneffels area and visiting hot springs in Ouray.**

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## Saturday, June 27

8:00 - 9:00 am Breakfast @ TSRC

Morning session 9:00 am – 12 noon  
Pance Naumov – Chair.

- 9:00 – 9:50 am      **Sung Cho** (Chonnam National University, Korea)  
*Solution Phase Exterior Chain Effect on Self-Assembled Structure and Aggregation Mechanism of Tetraphenylethene Derivatives.*
- 9:50 – 10:40 am    **Evgenia Vaganova** (Hebrew University of Jerusalem, Israel)  
*Effect of a DC Electric Field on the pH of Polymer Blends as Probed by Rhodamine B.*
- 10:40 – 11:00 am    Coffee break
- 11:00 – 11:40 am    **Andrey Romanyuk** (Georgia Tech, USA)  
*Microneedles for vaccination and biomedical diagnostics.*
- 11:40 am              Wrap up.