

Shape Responsive Fluorophores

Organizers:

Kyril Solntsev (Georgia Tech, Atlanta, GA, USA) cellphone 404-358-8352
and

Ben Zhong Tang (The Hong Kong University of Science and Technology)

Hosts:

TSRC

Nana Naisbitt 970-708-0004

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Location:

Telluride Intermediate School

725 West Colorado Avenue

Telluride CO 81435

Sunday, June 9

6:00 - 9:00 pm Welcome Reception at *New Sheridan Bar*
233 W Colorado Ave

Monday, June 10

7:30 - 8:30 am Breakfast @ TSRC

Morning session 8:30 am – 12:30 pm

Laren Tolbert – Chair.

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

8:45 – 9:35 am Ben Zhong Tang (The Hong Kong University of Science and Technology) *Recent Progress in the AIE study.*

9:35 - 10:25 am Yitzhak Tor (Univ of CA, San Diego, USA) *New Responsive Fluorescent Nucleosides for Studying RNA-based Processes.*

10:25 - 10:50 am Coffee break

10:50 - 11:40 am Felix Hoefelmann (Humboldt University Berlin, Germany) *Forced intercalation of Thiazole Orange – hybridization probes for RNA imaging.*

11:40am - 12:30 pm Seth Olsen (University of Queensland, Australia) *Monomethine Molecular Rotors: Implications of the Cyanine Limit.*

12:30 – 1:30 pm Catered Lunch @ TSRC

Tuesday, June 11

Afternoon session 1:30 pm – 5:45 pm

Yitzhak Tor - Chair

- 1:30 - 2:25 pm Kyril Solntsev (Georgia Tech, Atlanta, GA, USA). *Photophysics and photochemistry of the Green Fluorescence Protein synthetic chromophores.*
- 2:25 - 3:20 pm Mogens Brøndsted Nielsen (University of Copenhagen, Denmark) *Absorption and Fluorescence Tuning of the GFP Chromophore.*
- 3:20 - 3:55 pm Coffee break.
- 3:55 - 4:50 pm Laren Tolbert (Georgia Tech, Atlanta, GA, USA) *GFP synthetic chromophores as “turn-on” fluorescent probes for proteins.*
- 4:50 - 5:45 pm Alexander Mishin (Shemyakin-Ovchinnikov Institute of Bioorganic Chem, Moscow, Russia) *Bacterial proteins for specific binding of fluorogenic Kaede-like chromophores.*
- 6:00 pm Group dinner at *New Sheridan Chop House* at 233 W Colorado Ave. \$55/person.

Wednesday, June 12

12:30 – 1:30 pm Catered Lunch @ TSRC

Afternoon session 1:30pm – 5:45 pm

Eric Vauthey - Chair

- 1:30 - 2:25 pm Zhen Li (Wuhan University, China) *The Design, Synthesis and Properties of Some New Blue Fluorophores with Aggregation-Induced Emission.*
- 2:25 - 3:20 pm Deqing Zhang (Institute of Chemistry, Chinese Academy of Sciences) *New aspects of aggregation-induced emission: red-emissive luminogens for biosensors/imaging and polymorphism-dependent emission.*
- 3:20 - 3:55 pm Coffee break.
- 3:55 - 4:50 pm Alex Rebane (Montana State Univ, Bozeman, MT, USA) *Probing molecular-level interactions using quantitative two-photon absorption spectroscopy.*
- 4:50 - 5:45 pm Mikhail Drobizhev (Montana State Univ, Bozeman, MT, USA) *Interplay between Electronic Effects and Steric Hindrance in Controlling Reversible Photo-isomerization in Red Fluorescent Proteins.*
- 6:00 pm Telluride picnic at the *Ah Haa School for the Arts*, 300 S. Townsend, Telluride

Thursday, June 13

7:30 - 8:30 am Breakfast @ TSRC

Morning session 8:30 am – 12:35 pm
Seth Olsen – Chair.

- 8:30 – 9:25 am Eric Vauthey (University of Geneva, Switzerland) *Ultrafast excited-state dynamics of shape and environment-responsive molecules.*
- 9:25 – 10:20 am Ognjen Miljanic (University of Houston, TX, USA) *Cross-Conjugated Benzobisoxazoles and Benzimidazoles as Versatile Fluorescent Sensors.*
- 10:20 - 10:45 am Coffee break
- 10:45 - 11:40 am Anjun Qin (Zhejiang University, China) *Luminogenic Polymers with Aggregation-Induced Emission characteristics.*
- 11:40am - 12:35 pm Omar Abdelsaboor (KAUST, Saudi Arabia) *Charge Transfer Assisted by Collective Hydrogen-Bonding Dynamics.*

Friday, June 14

7:30 - 8:30 am Breakfast @ TSRC

Morning session 8:30 am – noon
Mikhail Drobizhev – Chair.

- 8:30 – 9:25 am Suzanne Fery-Forgues (Advanced Technology Institute for Life Sciences, Toulouse, France) *Organic ion-pairs exhibiting Aggregation-Induced Emission and their use for biological applications.*
- 9:25 – 10:20 am Vandana Bhalla (Guru Nanak Dev University, India) *Fluorescent Discotic Materials: Self Assembly and Sensing Applications.*
- 10:20 - 10:45 am Coffee break
- 10:45 – 11:40 am Brett Fellows (Georgia Tech, Atlanta, GA, USA) *Combinatorial synthesis of RFP chromophores. GFP chromophore – based polymers.*
- 11:40 am Wrap up.