

TSRI Workshop on Designing Biomolecular Switches, 2014

Location of breakfasts and talks:

The Telluride Intermediate School, 725 W. Colorado Ave., Telluride, CO 81435

Names and emails of organizers:

Lillian Chong (ltchong@pitt.edu), cell: 415-350-9029

Stewart Loh (lohs@upstate.edu), cell: 315-427-8431

TSRC hosts:

Nana Naisbitt 970-708-0004

Rory Sullivan 970-708-4542

| Sunday, 8/3 | Monday | Tuesday | Wednesday | Thursday | Friday 8/8 |
|---|-------------------------------|--|---|--|-------------------------------|
| | 7:30-8:30 Breakfast | 7:30-8:30 Breakfast | 7:30-8:30 Breakfast | 7:30-8:30 Breakfast | 7:30-8:30 Breakfast |
| | 9:00-10:30 Stewart Loh | 9:00-10:30 Thomas Kiefhaber | Free time | Free time | 9:00-10:30 Wrap-up Session |
| | 10:30 Break | 10:30 Break | | | Free time |
| | 10:45-12:15 Patricia Clark | 10:45-12:15 Tobin Sosnick | | | |
| | Lunch in town | Lunch in town | | | |
| 6:00-8:00 "Meet and greet" Cash bar at Arroyo Wine Bar and Gallery, 220 E. Colorado Ave. | 2:00-3:30 Hue Sun Chan | 2:00-3:30 Lillian Chong | 1:30-3:00 Marc Ostermeier | 1:30-3:00 John Karanicolas | |
| | 3:30-5:00 Andrew Woolley | Free time | 3:00 Break | 3:00 Break | |
| | | | 3:15-4:45 Alexis Vallee-Belisle | 3:15-4:45 Liviu Movileanu | |
| | Dinner in town | 6:00-7:15 TSRC Town Talk at Conference Center in Mountain Village | 6:00-9:00 TSRC picnic at Ah Haa School for the Arts, 300 S. Townsend (Family and guest welcome free of charge) | 5:30 Dinner at New Sheridan Chop House, 233 W. Colorado Ave., \$55/person for 3-course prix fixe dinner | |

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Title of talks

Monday 8/4:

| | |
|-----------------|--|
| Loh, Stewart | Protein switching by engineered domain swaps, fragment complementation, and circular permutation |
| Clark, Patricia | Exploiting mutually exclusive protein folds to measure ribosome translation rates |
| Chan, Hue Sun | Conformational switches in protein design and evolution |
| Woolley, Andrew | Designing switches based on azobenzenes and photoactive yellow proteins |

Tuesday 8/5:

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|-------------------|--|
| Kiefhaber, Thomas | Dynamics of binding-induced protein folding reactions |
| Sosnick, Tobin | Design and control of biological processes with light-sensitive proteins |
| Chong, Lillian | Molecular simulations of mutually exclusive folding in protein –based switches |

Wednesday 8/6:

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| Ostermeier, Marc | Recent switch designs |
| Vallee-Belisle, Alexis | Programmable DNA-based structure-switching sensors |

Thursday 8/7:

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|-------------------|--|
| Karanicolas, John | Designing protein-based switches and sensor via chemical rescue of structure |
| Movileanu, Liviu | Engineered stimuli-responsive protein nanovalves for targeted release of small molecules |