**TSRC Workshop on Macromolecular Crowding**

**Telluride, Colorado, July 16-20, 2019**

Monday Evening, July 15

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| **5:00-6:30**  | **MIXER at Oak, 250 W San Juan Avenue (Gus's Way; below Camels Garden Hotel and near gondola).** |

Tuesday Morning, July 16

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| **8:00-8:30**  | **BREAKFAST AT THE SCHOOL** |
| **8:30-9:10**  | Klaus Huber(University of Paderborn)**Mimicking Nature – Self-Assembly of a Synthetic Dyestuff under Crowding Conditions** |
| **9:10-9:50**  | Stéphane Longeville (Laboratoire Léon Brillouin, France)**Chain compression due to macromolecular crowding.** |
| **9:50-10:30**  | Kristin Slade (Hobart and William Smith Colleges)**Excluded volume effects on enzyme kinetics are all about the details** |
| **10:30-10:45**  | **COFFEE BREAK** |
|  | **Joint session with Intrinsically Disordered Proteins** |
| **10:45-11:25**  | Richard Kriwacki (St. Jude Children’s Research Hospital) “IDPs in Regulation of Key Biological Processes through Phase Separation” |
| **11:25-12:05**  | Margaret Cheung(University of Houston)***Critical phenomena in the temperature-pressure-crowding phase diagram of a protein*** |

Tuesday afternoon/evening, July 16

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|  | **Free time – group activities (hiking, mountain bike, etc…)** |
| **7:00**  | **The town talk has been canceled.** |

Wednesday morning, July 17

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| **8:00-8:30** | **BREAKFAST AT THE SCHOOL** |
| **8:30-noon** | **Free time – group activities (hiking, mountain bike, etc…)** |

Wednesday afternoon/evening, July 17

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| **1:45-2:25** | Shahar Sukenik (University of California Merced)**Tuning the activity of disordered proteins by changing solution conditions** |
| **2:25-3:05** | Daniel Harries (*The Hebrew University*)**How Osmolytes Modulate Lipid Interactions** |
| **3:05-3:20** | **COFFEE BREAK** |
| **3:20-4:00** | Ben Schuler (University of Zurich)**Depletion interactions modulate coupled folding and binding in crowded environments** |
| **4:00-4:40** | Tom Record (UW Madison)**Chemical and Excluded Volume Interactions of PEG and PVP with Proteins** |
| **6:00-7:00** | BBQ dinner in TSRC tent outside the school; food, soft drinks, beer & wine provided |
|  | **Joint Session with “Crowding” workshop** |
| **7:00-7:40** | **Vince Hilser, Johns Hopkins University** “Disorder and bi-directional allostery” |
| **7:40-8:30** | ***Gary Pielak, University of North Carolina, Chapel Hill; “***Understanding protein behavior in cells” |

Thursday morning, July 18

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| **8:00-8:30**  | **BREAKFAST AT THE SCHOOL** |
| **8:30-9:10**  | Wylie Stroberg (University of Michigan)**Chemical sensing in crowded environments**  |
| **9:10-9:50**  | Caitlin M. Davis (University of Illinois at Urbana-Champaign)**Tuning protein stability in vitro and in cells** |
| **9:50-10:30**  | Jaan Männik (University of Tennessee)**Interplay of Polydisperse Set of Crowders in Compacting Escherichia coli Nucleoid** |
| **10:30-10:45**  | **COFFEE BREAK** |
| **10:45-11:25**  | Yuji Sugita (RIKEN Institute)**Slow-down of protein and metabolite diffusion in protein crowded solution.** |
| **11:25-12:05**  | Fabio Sterpone (LBT/IBPC)**Toward microscopic simulations of crowded cell-like environments.** |
| **12:05-12:45**  | Peter B. Crowley (NUI Galway)**Porous Protein Crystals** |

Thursday afternoon, July 18

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|  | **Free time – group activities (hiking, mountain bike, etc…)** |

Friday morning, July 19

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| **8:00-8:30**  | **BREAKFAST AT THE SCHOOL** |
| **8:30-9:10**  | Prija Banerjee (University at Buffalo)**On the Molecular Driving Forces of Ribonucleoprotein Condensation**  |
| **9:10-9:50**  | Shana Elbaum-Garfinkle (City University of New York)**Protein phase separation and emergent material properties** |
| **9:50-10:30**  | Loren Hough (University of Colorado Boulder)**Molecular consequences of yeast cellular stress measured by in cell NMR** |
| **10:30-10:45**  | **COFFEE BREAK** |
| **10:45-11:25**  | Huan-Xiang Zhou (University of Illinois at Chicago)**Physical Basis of Protein Liquid-Liquid Phase Separation** |
| **11:25-12:05**  | Andrea Soranno (Washington University in St Louis)**Single-molecule spectroscopy reveals polymer effects in crowding** |

Friday afternoon/evening, July 19

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|  | **Free time – group activities (hiking, mountain bike, etc…)** |
| **7:00-9:00**  | We are invited to the Group Dinner of the “IDP” Workshop.Pizza Party w/ drinks in the TSRC tent ($45 each, paying guests welcome) |

Saturday morning, July 20

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| **8:00-8:30**  | **BREAKFAST AT THE SCHOOL** |