

Telluride Intermediate School, 725 West Colorado Ave Telluride, CO 81435

June 25 to June 29, 2019

Start Time: 8:30 AM

	Mon June 24	Tue June 25	Wed June 26	Thu June 27	Fri June 28	Sat June 29
8:30 AM		Breakfast	Breakfast	Breakfast	Breakfast	Breakfast
9:00 AM		Welcome at 9:30	Niall English (S1)	Paul Brumby (S2)	Tianshu Li (S4)	Free time
10:00 AM		Peter Kusalik (S1)	Chen Yong (S1)	Tomohiro Hasegawa (S3)	Alberto Striolo (S4)	Free time
11:00 AM		Break	Break	Break	Break	Free time
11:30 AM		Stephen Cox (S1)	Robert Bauer (S1)	Zlatko Bacic (S3)	Arnaud Desmedt (S4)	Free time
12:30 PM		Lunch break	Lunch break	Lunch break	Lunch break	
2:30 PM		Free time	Satoshi Takeya (S1)	Free time	Claire Petuya (S4)	
3:30 PM		Free time	Baptiste Bouillot (S2)	Free time	Break	
4:00 PM		Free time	Break	Free time	Group Discussion	
5:00 PM		Free time	Bertrand Chazallon (S2)	Free time	Concluding remarks	
6:00 PM			Picnic			
6:30 PM	Pre-registration (6-7:30 pm)*	Town Talk Conference Center Mountain Village				
7:00 PM				Group Dinner** (Floradora restaurant)		

\* Phoenix Bean located at 221 W. Colorado Avenue

\*\* Floradora restaurant located at 103 W Colorado Ave

- **Session 1: Nucleation / dissociation**

1. Peter Kusalik: Exploring Important Factors in Gas Hydrate Nucleation: Mixtures and Composition
2. Stephen Cox: Simulations of heterogeneous nucleation in aqueous systems
3. Nail English: Molecular-level understanding of gas-hydrate kinetics
4. Chen Yong: Investigation of the mechanism of nucleation of structure II hydrate
5. Robert Bauer: Homogeneous Nucleation of Gas Hydrates from Amorphous Films
6. Satoshi Takeya: Study on dissociation process of clathrate hydrates below ice point

- **Session 2: Structure / crystallization / stability**

1. Baptiste Bouillot: Non-equilibrium crystallization of mixed hydrates and formation of cyclopentane hydrates: thermodynamic and crystal growth study
2. Bertrand Chazallon: Influence of crystallization parameters on guest's selectivity and structures in CO<sub>2</sub>-based clathrates and semi-clathrates
3. Paul Brumby: Equilibrium properties of structure II hydrogen hydrate from Gibbs ensemble Monte Carlo simulations

- **Session 3: Quantum / Diffusion**

1. Zlatko Bacic: H<sub>2</sub>, HD, and D<sub>2</sub> in the condensed-phase environment of clathrate hydrates: Vibrational frequency shifts from fully-coupled quantum six-dimensional calculations of the vibration-translation-rotation eigenstates
2. Tomohiro Hasegawa: The interactions of hydrogen, SF<sub>6</sub> and water molecules

- **Session 4: Applications / unconventional environment**

1. Tianshu Li: Predicting the formation of inclusion-type silicon phase: inspired by the analogy between clathrate hydrate and inorganic clathrate
2. Alberto Striolo: Hydrates Management Using Surfactants: A Molecular Perspective
3. Arnaud Desmedt: Impact of sediments onto gas selectivity and formation kinetics of mixed gas hydrates
4. Claire Petuya: Effect of ammonia on the stability of cyclopentane and tetrahydrofuran clathrate hydrates