Monday, October 14	
9:00 - 9:25	***COFFEE***
MORNING SESSION	***Chair:*** **Sebastien Motsch** (Arizona State University) ***Opening session***
9:25 - 9:30	**Eitan Tadmor** (CSCAMM) *Welcoming Remarks*
9:30 - 10:10	**Yao Yao** (University of Wisconsin-Madison) Enhancement of biological reaction by chemotaxis
10:15 - 10:55	**José Alfredo Cañizo** (University of Birmingham) The diffusive aggregation equation
11:00 - 11:30	***COFFEE BREAK***
11:30 - 12:10	**Ricardo Alonso** (Rice University) Viscoelastic granular materials: Intermediate Gaussian asymptotic state, exponential lower bounds and propagation of regularity.
12:15 - 2:00	***LUNCH (hosted by CSCAMM)***
AFTERNOON SESSION	***Chair:*** **Stephan Martin** (Imperial College London) ***Swarming session***
2:00 - 2:40	**Jesús Rosado Linares** (University of California, Los Angeles) Effects of emotion in swarming dynamics
2:45 - 3:15	***COFFEE BREAK***
3:15 - 4:00	**Changhui Tan** (University of Maryland) Multi-scale representations of flocking models and critical thresholds for the hydrodynamics
4:05 – 4:45	**Daniel Balagué** (North Carolina State University) Stability analysis of rings for 2nd order models in swarming

Tuesday, October 15	
9:00 - 9:25	***COFFEE***
MORNING SESSION	***Chair:*** **Changhui Tan** (CSCAMM) ***Crowds & ants session***
9:30 - 10:10	**Raul Borsche** (Technishe Universitat Kaiserslautern) Interaction of pedestrian motion and traffic networks
10:15 - 10:55	**Sébastien Motsch** (Arizona State University) Towards "crowd weather" prediction
11:00 - 11:30	***COFFEE BREAK – POSTER SESSION***
11:30 – 12:10	**Simon Garnier** (NJIT and Rutgers University) Ant wuz here! Following the trail of recent ant network research
12:15 - 2:00	***LUNCH (hosted by CSCAMM)***
AFTERNOON SESSION	***Chair:*** **Thomas Rey** (CSCAMM) ***Macroscopic PDE session I***
2:00 - 2:40	**Nancy Rodriguez** (Stanford University) Understanding the effects of location on segregation: A PDE approach
2:45 - 3:15	***COFFEE BREAK – POSTER SESSION***
3:15 - 4:00	**Stephan Martin** (Imperial College London) Averaged energy dynamics for linear FPEs under periodic friction and noise
4:05 – 4:45	**Yongyong Cai** (Purdue University) Error analysis of energy stable scheme for phase-field model

Wednesday, October 16	
9:00 - 9:30	*COFFEE*
MORNING SESSION	***Chair:* Maria Bruna** (University of Oxford) ***Macroscopic PDE session II***
09:30 – 10:15	**Amélie Rambaud** (University of Bio-Bio) Derivation of turbulent Shallow Water type models: A general framework
10:15 - 10:55	**Weiran Sun** (Simon Fraser University) Matching Boundary Conditions for Moment Systems
11:00 - 11:30	***COFFEE BREAK – POSTER SESSION***
11:30 - 12:10	**Thomas Rey** (University of Maryland) Moment realizability-based numerical method for multi-scale kinetic equations
AFTERNOON SESSION	***Free Afternoon***
EVENING ACTIVITIES	
7:00	*DINNER*

Thursday, October 17	
9:00 - 9:25	***COFFEE***
MORNING SESSION	***Chair:*** **Ricardo Alonso** (Rice University) ***PDE theory session***
9:30 - 10:10	**Tran Minh-Binh** (Basque Center for Applied Mathematics) Convergence to equilibrium of some kinetic models
10:15 - 10:55	**Jacob Bedrossian** (NYU) Inviscid damping and the asymptotic stability of planar shear flows
11:00 - 11:30	***COFFEE BREAK – POSTER SESSION***
11:30 – 12:10	**Round Table**
12:20 - 2:00	***LUNCH***
AFTERNOON SESSION	***Chair:*** **Nancy Rodriguez** (Stanford University) ***Math Biology session***
2:00 - 2:40	**Sarthok Sircar** (University of Colorado, Boulder) Multi-scale modeling in particulate suspensions and bio-fluids
2:45 - 3:15	***COFFEE BREAK***
3:15 - 4:00	**Maria Bruna** (University of Oxford) Excluded-volume effects in stochastic models of diffusion
4:05 - 4:45	**Diane Peurichard** (Universite Paul Sabatier Toulouse) Modelling adipose tissue homeostasis

Friday, October 18	
9:00 - 9:30	*COFFEE*
MORNING SESSION	*Chair:* **Amélie Rambaud** (University of Bio-Bio) *Kinetic numerics session*
9:30 - 10:10	**Jeff Haack** (University of Texas at Austin) Numerical computation of the Boltzmann equation with singular intermolecular potentials and multi species, multi-energy level gases
10:15 – 10:55	**Qin Li** (California Institute of Technology) Exponential asymptotic preserving scheme for the Boltzmann equation and related
11:00 - 11:30	*COFFEE BREAK*
11:30 - 12:10	**Li Wang** (University of California, Los Angeles) Contagion shocks in one dimension
12:15	*CLOSING*

POSTER SESSION (Tues-Thurs)

List of Posters:

- **Keith Burghardt** (University of Maryland)
  Influence and rumor propagation in equilibrium on networks

- **Yongki Lee** (Iowa State University)
  Thresholds for shock formation in traffic flow models with Arrhenius look-ahead dynamics

- **Krithika Mohan** (John Hopkins University)
  Computational model for cell shape regulation through mechanosensing and mechanical feedback

- **Jose Morales Escalante** (University of Texas at Austin)
  Deterministic full band Boltzmann-Poisson models for hot electron transport by means of empirical pseudopotential methods

- **Anamika Pandey** (Technishe Universitat Kaiserslautern)
  Meshfree particle method for fluctuating hydrodynamic

- **Jia Zhao** (University of South Carolina)
  A macroscopic biofilm model for antimicrobial persistence