

<b>Thursday, Nov 19</b>	
<b>MORNING SESSION</b>	<b>Room: Gross 270</b>
9:00 - 9:05	<i>Welcoming Remarks</i>
9:05 - 9:45	<b>Mauro Maggioni</b> (Duke University) <a href="#">Geometric methods for learning reduced models for high-dimensional stochastic systems</a>
9:50 - 10:30	<b>Dejan Slepcev</b> (Carnegie Mellon University) <a href="#">Nonlocal interaction equations: phenomena and structures</a>
10:35 - 11:05	<b>COFFEE BREAK</b>
11:05 - 11:55	<b>Sebastien Motsch</b> (Arizona State University) <a href="#">Self-alignment driven by jump processes: macroscopic limit and numerical investigation</a>
12:00 - 2:00	<b>LUNCH (on your own)</b>
<b>AFTERNOON SESSION</b>	<b>Room: Gross 330</b>
2:00 - 2:40	<b>Alexander Kurganov</b> (Tulane University) <a href="#">Adaptive moving-mesh (AMM) methods for chemotaxis systems</a>
2:45 - 3:25	<b>Francis Filbet</b> (Université Paul Sabatier, Toulouse III) <a href="#">Numerical simulations of kinetic models for chemotaxis</a>
3:30 - 4:00	<b>COFFEE BREAK</b>
4:00 - 4:40	<b>Maria Lucakova</b> (Universität Mainz) <a href="#">Numerical methods for a chemotaxis based cancer invasion model</a>
4:45 - 5:40	<b>Short Talks: Introduction to Posters</b>
5:40 - 7:30	<b>Poster Session</b>

#### Posters:

**Nastassia Pouradier Duteil** (Rutgers University-Camden): Optimal Control of a Collective Migration Model

**Louis Fan** (University of Wisconsin at Madison): Stochastic spatial models for complex systems

**Hui Huang** (Duke University): Error estimate of a random particle blob method for the Keller-Segel equation

**Ryan Murray** (Carnegie Mellon University): Decay estimates and the cutoff phenomenon for the Becker-Döring equations

**Zhuolin Qu** (Tulane University): A fast and stable explicit operator splitting method for phase-field models

**Jinhuan Wang** (Liaoning University): Uniqueness of Keller-Segel: Refined hyper-contractivity, sharp condition for the global existence and blow-up

**Tong Wu** (Tulane University): Steady State and Sign Preserving Semi-Implicit Runge-Kutta Methods for ODEs with Stiff Damping Term

**Glenn Young** (University of Pittsburgh): Solitary Modes in Models of Bacterial Chemotaxis

**Jia Zhao** (University of South Carolina): Pattern Formations of Active Liquid Crystals

<b>Friday, Nov 20</b>	
<b>MORNING SESSION</b>	<b>Room: Gross 270</b>
9:30 – 10:10	<b>Eitan Tadmor</b> (University of Maryland) <a href="#">A new paradigm for collective dynamics: the emergence of leaders</a>
10:15 – 10:55	<b>Bob Pego</b> (Carnegie Mellon University) <a href="#">Euler sprays and optimal transportation</a>
11:00 - 11:30	<b>COFFEE BREAK</b>
11:30 - 12:10	<b>Qi Wang</b> (University of South Carolina and Beijing Computational Science Research Center) <a href="#">Models for active matter and their applications to cell motility</a>
12:15 - 2:00	<b>LUNCH (on your own)</b>
<b>AFTERNOON SESSION</b>	<b>Room: Gross 270</b>
2:00 - 2:40	<b>Jacob Bedrossian</b> (University of Maryland) <a href="#">Scaling and criticality in variants of the Patlak-Keller-Segel system</a>
2:45 – 3:25	<b>Nader Masmoudi</b> (New York University) <a href="#">Stability of infinite time aggregation for the critical Patlak-Keller-Segel model in 2 dimension</a>
3:30 - 4:00	<b>COFFEE BREAK</b>
4:00 - 4:40	<b>Alexander Lorz</b> (Université Pierre et Marie Curie - Paris 6) <a href="#">Population dynamics and therapeutic resistance: mathematical models</a>
6:15	<b><a href="#">Conference Dinner at Piedmont Restaurant</a></b>

<b>Saturday, Nov 21</b>	
<b>MORNING SESSION</b>	<b>Room: Gross 270</b>
9:30 – 10:10	<b>Doron Levy</b> (University of Maryland) <a href="#">Modeling selective local interactions with memory</a>
10:15 – 10:55	<b>Razvan Fetecau</b> (Simon Fraser University) <a href="#">The complexities of a simple first-order aggregation model</a>
11:00 – 11:30	<b>COFFEE BREAK</b>
11:30 – 12:10	<b>Nancy Rodriguez</b> (University of North Carolina) <a href="#">Periodic cycles of social outbursts</a>
12:15 – 2:00	<b>LUNCH (on your own)</b>
<b>AFTERNOON SESSION</b>	<b>Room: Gross 270</b>
2:00 – 2:40	<b>Jingwei Hu</b> (Purdue University) <a href="#">Asymptotic-preserving stochastic Galerkin schemes for the Boltzmann equation with uncertainty</a>
2:45 – 3:25	<b>Xu Yang</b> (University of California, Santa Barbara) <a href="#">Pathway-based mean-field models for E. coli chemotaxis</a>
3:30 – 4:00	<b>COFFEE BREAK</b>
4:00 – 4:40	<b>Martin Short</b> (Georgia Institute of Technology) <a href="#">The game of crime: How societies “choose” their crime level</a>

<b>Sunday, Nov 22</b>	
<b>MORNING SESSION</b>	<b>Room: Gross 270</b>
9:30 - 10:10	<b>Li Wang</b> (University of California, Los Angeles) <a href="#">Efficient numerical schemes for multiscale crowd dynamics with emotional contagion</a>
10:15 - 10:55	<b>Yuan Zhang</b> (University of California, Los Angeles) <a href="#">Convergence of stochastic interacting particle systems in probability under a Sobolev norm</a>
11:00 - 11:30	<b>COFFEE BREAK</b>
11:30 - 12:10	<b>Yi Sun</b> (University of South Carolina) <a href="#">Kinetic Monte Carlo simulations of multicellular aggregate self-assembly in biofabrication</a>
12:15	<b>CLOSING</b>