

Monday, October 6	Modeling and Control in Social Dynamics
9:00 - 9:25	COFFEE
MORNING SESSION	Chair: Benedetto Piccoli (Rutgers University-Camden)
9:25 - 9:30	Eitan Tadmor (CSCAMM) <i>Welcoming Remarks</i>
9:30 - 10:10	Magnus Egerstedt (Georgia Tech) "Eulerian Swarms"
10:15 - 10:55	Naomi Leonard (Princeton University) "Decision-making and leadership in noisy networks"
11:00 - 11:30	COFFEE BREAK
11:30 - 12:10	Nicola Bellomo (Politecnico Torino) "Kinetic theory and stochastic differential games toward a systems sociology approach"
12:15 - 2:00	LUNCH (hosted by Center for Computational and Integrative Biology)
AFTERNOON SESSION	Chair: Andrea Tosin (IAC, Rome)
2:00 - 2:40	Juan Soler (University of Granada) "Kinetic and hydrodynamic descriptions in social dynamics"
2:45 - 3:25	Igor Aronson (Argonne National Laboratory) "Instabilities and collective motion in suspensions of bacteria"
3:30 - 4:00	COFFEE BREAK
4:00 - 4:40	Magali Tournus (Penn State and University of Maryland) "How does the flagellum affect bacterial swimming?"

Tuesday, October 7	Modeling and Control in Social Dynamics
9:00 - 9:30	COFFEE
MORNING SESSION	Chair: Eitan Tadmor (University of Maryland)
9:30 - 10:10	Rainer Hegselmann (Universitat Bayreuth) "Radical groups, dogmatists, and charismatic leaders a simple unifying modeling approach"
10:15 - 10:55	Nancy Rodriguez (Stanford University) "On a stochastic non-local model for civil unrest"
11:00 - 11:30	COFFEE BREAK
11:30 - 12:10	Victor Yakovenko (University of Maryland) "Statistical mechanics of money, income, debt, and energy consumption"
12:15 - 2:00	LUNCH BREAK
AFTERNOON SESSION	Chair: Juan Soler (University of Granada)
2:00 - 3:30	Roundtable: Bellomo, Ben-Naim, Fibich, Hegselmann, Tadmor
3:30 - 4:00	COFFEE BREAK
4:00 - 4:40	Christian Ringhofer (Arizona State University) "Wealth evolution in spatially structured economies driven by local Nash equilibria with risk averse trading strategies"
EVENING ACTIVITIES	
7:00	DINNER AT TBD

Wednesday, October 8	Modeling and Control in Social Dynamics
9:00 - 9:30	COFFEE
MORNING SESSION	Chair: Rainer Hegselmann (University of Bayreuth)
9:30 - 10:10	Eitan Tadmor (University of Maryland) "Analysis of agent-based social dynamics: local vs. global models, spectral analysis vs. energy method"
10:15 - 10:55	Changhui Tan (University of Maryland) "Flocking dynamics in different scales"
11:00 - 11:30	COFFEE BREAK
11:30 - 12:10	Gadi Fibich (Tel Aviv University) "Is adoption of new products affected by the social network? Mathematical Marketing and Agent-Based approaches"
12:15 - 2:00	LUNCH (hosted by Center for Computational and Integrative Biology)
AFTERNOON SESSION	Chair: Dieter Armbruster (Arizona State University)
2:00 - 2:40	Pierre-Emmanuel Jabin (University of Maryland) "Well posedness for new pedestrian models"
2:45 - 3:25	Andrea Tosin (IAC, Rome) "Generalized kinetic equations and stochastic game theory for social systems"
3:30 - 4:00	COFFEE BREAK
4:00 - 4:40	Eli Ben-Naim (Los Alamos National Laboratory) "Kinetics of extreme values"

Thursday, October 9	Modeling and Control in Social Dynamics
9:00 - 9:30	COFFEE
MORNING SESSION	Chair: Nicola Bellomo (Politecnico Torino)
9:30 - 10:10	Massimo Fornasier (Technical University of Munich) "Sparse mean field optimal control"
10:15 - 10:55	Marco Caponigro (CNAM, Paris) "Modeling and control of opinion formation"
11:00 - 11:30	COFFEE BREAK
11:30 - 12:10	Dieter Armbruster (Arizona State University) "Market modeling: agent based simulations and their kinetic description"
12:15 - 2:00	LUNCH (hosted by Center for Computational and Integrative Biology)
AFTERNOON SESSION	Chair: Pierre-Emmanuel Jabin (University of Maryland)
2:00 - 2:40	Sebastien Motsch (Arizona State University) "Emergence of Consensus"
2:45 - 3:15	COFFEE BREAK
3:15 - 4:00	Benedetto Piccoli (Rutgers University- Camden) "Nonlinear transport models with sources for social dynamics"
4:00	CLOSING