

Day 1: June 13, 2019 (Thursday)

8:30-9:00	Registration	
9:00-9:10	Welcome and meeting overview: David Stone (UIC) & Elizabeth Sztul(UAB)	
9:10 - 9:50	<i>Project Presentation 1:</i> Dan Szymanski and Joe Turner (Purdue)	Mechanical modeling of epidermal morphogenesis with integrated experimental verification
9:50 - 10:30	<i>Project Presentation 2:</i> Gregor Neuert (Vanderbilt)	Predictive understanding of cell biological systems through kinetic analysis
10:30 - 11:10	<i>Project Presentation 3:</i> Matthias Falk and Wonpil Im (Lehigh)	Modeling Gap Junctions and Direct Cell-to-Cell Communication: A few examples
11:10 - 11:30	Coffee break	
11:30 - 12:30	<i>Keynote Talk 1:</i> Julien Berro (Yale)	Essentially all models are wrong, but some are useful
12:30 - 1:10	<i>NSF MCB Program Officer:</i> Rita Miller (NSF)	Funding opportunities at NSF-MCB for biological modeling
1:10 - 2:30	Catered lunch	
2:30 - 3:10	<i>Community modeling:</i> Anne Cowan (U Conn)	VCell and the potential of community modeling
3:10 - 4:00	<i>Project Presentation 4:</i> Shahid Mukhtar (UAB)	Getting to the Edge of Diverse Biological Networks
4:00 - 5:30	Posters	
5:30 - ?	Happy hour mixer	

Day 2: June 14, 2019 (Friday)

9:00-9:40	<i>Project Presentation 5:</i> Belinda Akba and Marcela Rojas-Pierce (NCSU)	Qualitative-to-quantitative modeling directs experimental inquiry: uncovering mechanisms of membrane fusion in plants
9:20-10:20	<i>Project Presentation 6:</i> Wouter Jan Rappel (UCSD)	Computational modeling of Eukaryotic cell migration inspired by experiments
10:20-11:00	<i>Project Presentation 7:</i> Lynn Dobrunz (UAB)	Use of Mathematical Modeling to Investigate Mechanisms Regulating Neurotransmitter Release
11:00 - 11:20	Coffee break	
11:20 - 12:20	<i>Keynote Talk 2:</i> Wonpil Im (Lehigh)	Biomolecular Modeling and Simulation using CHARMM-GUI
12:20 - 12:50	<i>Match website:</i> David Stone (UIC) and Michael Blinov (UCHS)	Matching computational and modeling expertise among biologists
12:50 - 2:00	Catered lunch	
2:00 - 2:40	<i>Tools for modeling:</i> Carlos Lopez (Vanderbilt)	Modeling with programs using PySB in Python
2:40 - 3:40	Panel Discussion/Town Hall	Szymansky, Neuert, Im, Lopez, Rappel, Berro, Blinov, Mukhtar, Stone, Turner, Cowan, Akpa
3:40 - 5:40	Meet a Modeler 30 minute consultation sessions: Cowan, Rappel, Mukhtar, Im, Neuert, Berro, Blinov, <i>et al</i>	
5:40	Closing remarks: David Stone(UIC), Carlos Lopez(Vanderbilt), & Elizabeth Sztul (UAB)	
5:50	Depart for the airport or a vacation in the "Heart of Dixie"	