

SECOND ANNUAL MPP WORKSHOP SCHEDULE

Friday, January 8, 2010

- 2:00pm Registration
- 4:00pm Introduction (Winfree)
- 4:30pm **Josh Bishop** (“A feedback regulated transcriptional switch”)
- 5:00pm **Richard Murray** (“Why do human-designed biological circuits suck?”)
- 5:30pm **Niles Pierce** (“Readout and regulation via programmable mechanical transduction with RNA”)
- 6:00pm Break / Posters / Demos
- 6:30pm Dinner
- 8:00pm Keynote #1:
Ned Seeman (“DNA: 3D crystals and an assembly line”)

Saturday, January 9, 2010

- 9:00am Keynote #2:
Charles Bennett (“Toward a thermodynamics of error-correction and self-organization”)
- 9:45am Break
- 10:00am **Dave Zhang** (“Poking a gray box: `what-if` questions about an entropy-driven DNA catalyst system”)
- 10:30am **Lulu Qian** (“Simulating brains with DNA”)
- 11:00am **Brian Wolfe** (“Nucleic acid sequence design”)
- 11:30am Break
- 11:45am Software Demos #1
- 12:30pm Lunch
- 2:00pm Afternoon Free Time
- 4:30pm **Hana El Samad** (“Non-genetic individuality: noise as a phenotype”)
- 5:00pm **Hongchao Zhou** (“Synthesis of stochastic flow in networks”)
- 5:30pm **Eric Klavins** (“Control of Low Copy Number Chemical Reactions”)
- 6:00pm Break / Posters / Demos
- 6:30pm Dinner
- 8:00pm Panel Discussion

Sunday, January 10, 2010

- 9:00am Keynote #3:
John Hopfield (“Form follows function, or perhaps function follows form”)
- 9:45am Break
- 10:00am **Walter Fontana** (“Rule-based models and exact coarse-graining of distributed molecular systems”)
- 10:30am **Peng Yin** (“Active self-assembly of algorithmic shapes in logarithmic time”)
- 11:00am **Ho-Lin Chen** (“Primitives for molecular actions”)
- 11:30am Break
- 11:45am Software Demos #2
- 12:30pm Lunch
- 2:00pm **Sungwook Woo** (“Creating programmable stacking bonds using DNA origami”)
- 2:30pm **Erik Winfree** (“Turing-universal computation with DNA polymers”)
- 3:00pm Concluding Remarks & Discussion
- 4:00pm Adjourn