

UAA COMPLEX SYSTEMS INITIATIVE

SUMMARY OF ACTIVITIES – FY13

Complex Systems Lecture Series

Matthew Dickerson, Middlebury College – *Multi-agent simulation*

(October 12) (32 people)

Hod Lipson, Cornell University – *Self-reflecting robotic systems*

(February 14 and 15) (49 people)

Scott Ortman, Santa Fe Institute – *Social complexity and archaeology*

(March 20 and 21) (49 people)

Brian Knep, Harvard – emergent art exhibit, Kimura Gallery

(March 27-April 17)

Brown Bag Lunch Presentations

David Bowie – *Modeling linguistic variation and change*

Martin Cenek – *Machine intelligence*

Janet Johnson – *Applying systems science to health issues in Alaska*

Emergence in Chemical Systems 3.0 Conference (June 17-22)

Attended by 70 scientists from around the world

44 presenters, 19 posters

Funded by The Complex Systems Group, the Provost's Office, and the Deep Carbon Observatory, Carnegie Institute of Washington

Curriculum Offered in AY12

Fall 2012: CPLX/BIOLOG 200 – 16 students

Spring 2013: CPLX 394 – 6 students

Created a “Computer Modeling Assistant” to help students and faculty with modeling projects

Program Development

Dr. Martin Cenek was hired in the Computer Science and Engineering department. The Complex Systems Group will fund 25% of his faculty position. This position will teach the curriculum, provide curriculum development, and help coordinate interdisciplinary initiatives and research.