SUMMARY OF ACTIVITIES 2014-15

Complex Systems Lecture Series

Dr. Steven Schladover, Program Manager, California PATH program, UC Berkeley
Road Vehicle Automation: History, Opportunity, and Challenges
September 30, 2014 (17 people)

Dr. Daniel Kammen, Professor of Energy, UC Berkeley
The System is the Solution: Energy Options for the 21st Century
February 5 and 6, 2015 (35 people)

Dr. Raissa D'Souza, Professor of Computer Science and Mechanical Engineering, UC Davis
The Science of Networks: Modeling our complex, interdependent world
April 2 and 3, 2015 (16 people)

Dr. Paul Kockelman, Professor of Linguistic Anthropology, Yale University
The Work of Interpretation in the Age of Computation
April 15 and 17, 2015 (28 people)

Brown Bag Lunch Presentations

George Kamberov: *Unsupervised detection of video sub-scenes*
Frank Witmer: *Spatially explicit modeling of human-environmental interactions*
Jamie Trammell: *Alternative landscape futures*
Jonathan Alevy and Lance Howe: *Choice, risk, and motivational cognition*
Mollie McCarthy: *Unearthing past sockeye salmon populations on the Kenai Peninsula*
Alan Boraas and Hannah Johnson: *Salmon, complexity, and the Cook Inlet Dena'ina*
Kacy Krieger: *Data driven integration*
Sarah Wandersee: *Landscape values mapping on the Kenai Peninsula*
Meagan Krupa: *Stakeholder analysis of the Kenai River fishery*
Matt Reeves: *Potential climate change impacts on basin-scale water resources*
Mark Faller: *The four demons of causal memory*
Martin Cenek and Spencer Dahl: *A computational approach to multiagent simulations*)

Conference: Emergence in Chemical Systems 4.0

Jerzy Maselko and the Complex Systems Group sponsored the four day *Emergence in Chemical Systems 4.0* conference in June 2015. This international conference, hosted on campus for the fourth time, brought 47 scientists and researchers from around the world to discuss many aspects of the origin of life and the development of complex chemical behaviors.

Curriculum Offered in AY15

Fall 2014: CPLX 200 – 14 students
Spring 2015: CPLX/CSCE 394 – 5 students

Program Development

In the UAA Program Prioritization process of 2014-15, Complex Systems was placed into the "transform" category for curriculum offerings and non-academic offerings. The Natural and Complex Systems track within the Honors College was placed in the "further review" category, and is part of an ongoing restructuring of the Honors College. The academic review team called this an "exciting and innovative area", but wished to see a stronger tie to academic and curricular outcomes.