



The Principles of Complexity: Life, Scale, and Civilization

July 31, August 1, 2, 2013
Santa Fe Institute

Agenda

Wednesday July 31, 2013

- 5.45pm** **Reception, Hotel Santa Fe**
7.00 *Shuttle to the James A. Little Theater*
- 7.30** **Dr. Michael Crow** *President Arizona State University*
"New Problems, New Partnerships: What Tomorrow's University Must Be"
James A. Little Theater, 1060 Cerrillos Road, Santa Fe
- 9.00** *Shuttle from James A. Little Theater to Hotel Santa Fe*

Thursday, August 1, 2013

Workshop DAY 1

SANTA FE INSTITUTE
Robert Noyce Conference Room

- 8.15am** *Shuttle from Hotel Santa Fe to Santa Fe Institute*
- 8.30** **BREAKFAST**
- 9.00** **Jerry Sabloff** *Santa Fe Institute*
Welcome and opening remarks
- 9.15** **Jerry Sabloff** *Santa Fe Institute*
Group Introduction
- Laura Fortunato and Hannah DeRose- Wilson**
Santa Fe Institute
"What is Social Complexity, Anyway"
- Paula Sabloff** *Santa Fe Institute*
"Comparative Analysis of State Formation"
"Comparative Analysis of State Hierarchies"
- Scott Ortman** *Santa Fe Institute*
"Urban Scaling in the Ancient World: Evidence from Pre-Hispanic Central Mexico"

Eric Rupley *Santa Fe Institute*

“Structural and Dynamic Foundations for the Initial Emergence of the State”

10.45

COFFEE BREAK

11.00am – 12.30pm

Geoffrey West and Luis Bettencourt *Santa Fe Institute*
Group Introduction

Clio Andris *Santa Fe Institute*

“Regularities and Patterns in the US Inter-urban Migration System”

Yaoli Wang *University of Georgia-Athens*

“Spatializing Social Networks in an Urban Context”

Marcus Hamilton *Santa Fe Institute*

“Scaling the Size and Dynamics of Publicly-traded Firms and Markets”

Madeleine Daepf *Washington University-St Louis*

“The Lifespan of Publicly Traded Companies”

12.30

LUNCH

1.30

Jessica Flack

Univ. of Wisconsin - Madison,

The Center for Complexity & Collective Computation (C4)

Group Introduction Part 1

Eddie Lee *Univ. of Wisconsin - Madison, (C4)*

“Regularities of Macroscopic Observables”

Eleanor Brush *Univ. of Wisconsin - Madison, (C4)*

“Consensus Formation as a Mechanism for Producing New Temporal and Spatial Scales”

Philip Poon *Univ. of Wisconsin - Madison, (C4)*

“Niche Construction and Macroscopic Tuning via Adaptive Learning Rules”

David Krakauer *Univ. of Wisconsin - Madison, (C4)*
Group Introduction Part 2

Chris Ellison *Univ. of Wisconsin - Madison, (C4)*
“Inferential Evolution and the Complexity of Life”

Bryan Daniels *Univ. of Wisconsin - Madison, (C4)*
“Criticality and Information Flow in an Adaptive System”

Evandro Ferrada *Santa Fe Institute*
“The Simon Modularity Principle”

3.00

TEA

3.30

Melanie Mitchell *Portland State University*
Group Introduction

David Feldman *College of the Atlantic*
“A Massive Open Online Course (MOOC) on Dynamics and Chaos”

John Driscoll *Portland State University*
“Fractals, Biological Scaling and Urban Scaling”

4.30

Recap of the day

5.30

Cocktails

6.00

Dinner at Santa Fe Institute

7.30 and 8.00

Shuttle will leave for Hotel Santa Fe

Friday, August 2, 2013
Workshop DAY 2

SANTA FE INSTITUTE
Robert Noyce Conference Room

- 8.15am** *Shuttle from Hotel Santa Fe to Santa Fe Institute*
- 8.30** **BREAKFAST**
- 9.00** **Geoffrey West**
Introduction and Recap
- 9.10** **Krakauer/Flack Group Discussion**
Moderated by Melanie Mitchell
- 11.00** **COFFEE BREAK**
- 11.15** **Sabloff Group Discussion**
Moderated by Luis Bettencourt
- Noon – 1.00pm** **LUNCH**
- 1.00** **West/Bettencourt Group Discussion**
Moderated by David Krakauer
- 3.00** **TEA**
- 3.30** **Richardson/Mitchell Group Discussion**
Moderated by Jerry Sabloff
- 4.30** **Jerry Sabloff**
Closing Remarks
- 5.00** *Shuttle will leave for Hotel Santa Fe*