

International Conference on Complex Systems

October 25-30, 1998
Nashua, NH (near Boston, MA)



New England Complex Systems Institute

<http://necsi.net>

necsi@necsi.net

Conference Chairman:
Executive Committee:

Yaneer Bar-Yam – NECSI
Michael Lissack – NECSI
Larry Rudolph – MIT

• PEDAGOGICAL SESSIONS:

The conference will include pedagogical sessions Sunday, October 25.

• PRECONFERENCES (Separate Registration and Deadlines)

Statistical Physics of Complex Systems

October 23-24, 1998

Location: Boston Area site to be announced

<http://www.necsi.net/events/spcs.html>

"Managing the Complex"

A Semi-Annual Colloquium on Complex Systems
and the Management of Organizations

October 22-25, 1998

Swissotel, Boston, Massachusetts

<http://lissack.com/managing.html>

• ICCS REGISTRATION: Apply to iccs@necsi.net

Payment information will be sent out with notification of application acceptance.
Registration fees (includes lunch Monday through Friday at the conference) :

	Regular (member*)	Student (member*)
Registration: Sept. 20	\$450 (\$400)**	\$275 (\$250)**

*For NECSI membership information see <http://necsi.net/member.html>
Annual Membership Dues: Student \$20, Academic \$50, Other \$100

**An additional \$100 penalty will be charged for those who register at the conference site.

We anticipate having some funds available to assist conferees according to need.
Application to the conference organizers (iccs@necsi.net) may be made for this financial support.

1998 ICCS CONFERENCE PROGRAM

SUNDAY October 25

9:00AM-5:00PM PEDAGOGICAL SESSIONS

*Dan Stein - Pedagogical sessions: session chair.

- *Alfred Hubler - Overview
- *Gerard Vichniac - CA
- *Cris Moore - Computational Complexity
- *Charlie Doering - Convection, Stability & Turbulence
- *Fred Nijhout - Patterns in Development
- *Ken Kollman - Society & Economics
- Geoffrey West - Scaling

5:00PM-8:00PM RECEPTION

MONDAY October 26

9:00AM-12:20PM EMERGENCE

*Jerome Kagan - Emergence

- *Philip Anderson
- Stuart Kauffman
- *Stephen Kosslyn - The Visual Mind
- *Norman I. Badler - Virtual Humans

2:00PM-5:20PM DESCRIPTION AND MODELING

*Steve Lansing - Description and Modeling

- *John Sterman - System Dynamics
- *David Harel - Statecharts
- *Richard Palmer - Statistical Strategies
- Tomasso Poggio - Vision

7:30PM-9:30PM FUNDING COMPLEX SYSTEMS RESEARCH

- *James Anderson - NIH (NIGMS)
- *Mike McCloskey - NSF

TUESDAY October 27

9:00AM-12:20PM SELF-ORGANIZATION

*Irving Epstein - Self-Organization

- *David Campbell
- *J. A. Scott Kelso
- Max Boisot

2:00PM-5:00PM AFTERNOON PARALLEL BREAKOUT SESSIONS

*Bob Savit - Modeling Social Systems

- *Bennett Levitan/Stuart Kauffman/Jose Lobo/Richard Schuler,
- *Ali Minai/James Uber/Marco Propato,
- *Thad Brown, *David Meyer, Josh Epstein

*Richard Bagley - Quantum Information and Computation

- *David Divincenzo, *Seth Lloyd, John Preskill

*Thomas Deisboeck - Medical Complexity

- *Jason Haugh, *Steven Kleinstein, *Andre Van Der Kouwe, *Ary Goldberger, *Donald Coffey

*Sean Rice - Evolution: Multi Level Selection and the Structure of Biological Systems

- *Leticia Aviles, *Charles Goodnight,
- *David Sloan Wilson, Elizabeth Lloyd

*Robert Berwick - A-Languages

7:00PM-10:00PM EVENING PARALLEL BREAKOUT SESSIONS

*Dan Braha - Modeling the Design Process

- *Bill Birmingham, *David Brown,
- *Pradeep Khosla, James Rinderle

*Terrence Deacon - Consciousness

*Seth Lloyd - Symbolic Dynamics/Information Mechanics

*Tim Keitt/*Les Kaufman - Dynamics in Ecological Networks

Mark Bedeau - Artificial Evolution and Optimization

WEDNESDAY October 28

9:00AM-12:20PM NETWORKS

*Larry Rudolph - NETWORKS

- *Eli Upfal - Structure and Analysis of Networks
- David Culler - The Network is the Computer
- Antonio Coniglio - Percolation and Fractal Networks

AFTERNOON EXCURSION

BANQUET

*Dean LeBaron - Banquet Session

Edward N. Lorenz

THURSDAY October 29

9:00AM-11:40AM TIME SERIES

*Richard Cohen - Time Series

- *Doyne Farmer
- *Andrew Lo
- Bill Ditto

11:40AM-12:20PM MANAGING COMPLEXITY

*Harris Berman - Medical Management

2:00PM-5:00PM AFTERNOON PARALLEL BREAKOUT SESSIONS

*Kosta Tsipis - Global Systems

- *Frank Schweitzer, *Manjula Waldron,
- *Susan Aaron, *Roberto Serra

*Per Bak - Networks

- *Sorinel Oprisan, *Bruce Sawhill, *Daniel Coore, *Duncan Watts

*Max Garzon - DNA Computing

*Helen Harte/*Farrell Jorgensen - Health Care Management

- *Mark Van Kooy, *Martin Merry, *William Braswell, Mark Smith, Jeff Goldstein

Jay Lee Jaroslav - Artificial Minds

7:00PM-10:00PM EVENING PARALLEL BREAKOUT SESSIONS

*Anjali Sastry - System Dynamics

- *George Richardson, *Chris White,
- *Jim Hines/Jody House

*Walter Freeman/*Ali Minai - Neural Computation

- *Steve Bressler, *John Lismann, *Randy McIntosh,
- Mike Hasselmo, *Jorge Jose, *John Symons

*Michael Jacobson - Education & Complex Systems

- *Win Farrell, *Marshall Clemens, *Jim Kaput,
- *Uri Wilensky/Kenneth Reisman, Kenneth Brecher

Mihail Roco - Nanotechnology

FRIDAY October 30

9:00AM-12:20PM AGENTS IN ACTION

*William Fulkerson - Agents in Action

- *Rob Axtell
- *Van Parunak
- Chris Langton
- Patty Maes

12:20PM-5:20PM COMPLEXITY AND MANAGEMENT

(EXTENDED SESSION INCLUDING LUNCH)

*Tom Petzinger - Complexity and Management

- *Michael Hammer
- *William Mckelvey
- Henry Mintzberg
- *Laurence Prusak
- *Peter Senge

* indicates confirmed