

 Duke CNCS

## Seminar Series

[CNCS Home](#)
[People](#)
[Research](#)
[Resources](#)
[Seminar](#)
[Duke University](#)
[Duke Phonebook](#)

Departments:

[Biology](#)
[Cell Biology](#)
[Mathematics](#)
[Physics](#)
[Earth & Ocean  
Sciences](#)
[Biomedical  
Engineering](#)
[Civil &  
Environmental  
Engineering.](#)
[Electrical and  
Computer  
Engineering.](#)
[Mechanical  
Engineering &  
Materials.Science](#)
[Neurobiology](#)
[Nicholas School  
of.the.Environment](#)

# Nonlinear Seminars

The regular time and place for this series is **2:15pm** on Tuesday in Room 113 of the Physics Building.

CNCS faculty wishing to reserve a date and/or invite a speaker should contact [Prof. Earl Dowell](#)

## Spring 2003

Tuesday, Jan. 14,  
2003  
2:15 pm

Room 113

**Michel Baranger** -- New England Complex Systems Inst., U. of Arizona, MIT

[\*The Interdependence of Spatial Complexity and Genetic Diversity in Evolutionary Biology\*](#)

Tuesday, Jan. 21,  
2003  
2:15 pm

Room 113

**Gaby Katul** -- Duke Nicholas School of the Environment

[\*Anthropogenic Perturbations on the Coupled Water-Carbon Cycles of Forested Ecosystems\*](#)

Tuesday, Feb. 4,  
2003  
2:15 pm

Room 113

**John Albertson** -- Duke Civil Engineering

[\*On the temporal dynamics of water and carbon cycling in an African Savanna\*](#)

Friday, Feb. 7,  
2003  
4:00 PM

 Room 234  
Physics

**Ehud Meron** -- Ben-Gurion University

[\*Vegetation patchiness and desertification: a pattern formation approach\*](#)

Tuesday, Feb. 11,  
2003  
2:15 pm

**Anand Jayaraman** -- Duke Physics

[Psychiatry and Behavioral Science](#)

[Altavista \(simple\)](#)

Room 113 [\*Unsteady motion of falling spheres: an hydrodynamic instability in worm-like micellar fluids\*](#)

Tuesday, Feb. 18, 2003  
2:15 pm **Silvia Ferrari** -- Duke Mechanical Engineering and Materials Science

Room 113 [\*Algebraic and Adaptive Learning in Neural Control Systems\*](#)

Thursday, Feb. 20, 2003  
11:00 AM **Dennis C. Rapaport** -- Department of Physics, Bar-Ilan University

Room 234 Physics [\*Emergent behavior in many-particle systems\*](#)

Friday, Feb. 21, 2003  
2:30 **Tom Burton** -- Department of Mechanical Engineering, Texas Tech University

Room 125 Hudson Hall [\*Reduced Order Modeling of Large Structural Systems with Non-Smooth Nonlinear Damping\*](#)

Tuesday, Feb. 25, 2003  
2:15 pm **Horst Meyer** -- Duke Physics

Room 113 [\*Heat Transfer and Convection Onset in a Compressible Fluid:  \$^3\text{He}\$  Near the Critical Point\*](#)

**CANCELED**

Tuesday, Mar. 4, 2003  
2:25 pm **CANCELED Jie Liu** -- Duke Chemistry

Room 113 [\*Gaining Control in the Synthesis of One-Dimensional Nanoscale Materials\*](#)

Tuesday, Mar. 18, 2003  
9:00 AM **Stefan Muller** -- Otto-von-Guericke-Universitat-Magdeburg

Room 234 Physics [\*Control of Spiral Waves in Excitable Media\*](#)

Tuesday, Mar. 18, 2003  
2:15 PM **Phill Holmes** -- Princeton University

Room 113 [\*Low-dimensional models of turbulent plane Couette flow\*](#)

Tuesday, Mar. 25, 2003  
2:15 PM **Nicola Scafetta** -- Duke Physics and ECE Departments

Room 113 [\*Solar intermittency in earth's global and regional temperature anomalies\*](#)

Thursday, Apr. 3,

2003

11:00 AM

Room 234

Physics

**Jean-Philippe Bouchaud** -- CNRS-Saclay

[\*Glassy dynamics in granular media\*](#)

Monday, Apr. 7,

2003

12:15 PM

Room 054

Physics

**Bjorn Birnir** -- UCSB

[\*Systems of Color: complexity in landscape evolution\*](#)

**CANCELED**

Tuesday, Apr. 8,

2003

2:15 PM

Room 113

**CANCELED Richard Gray** -- University of Alabama at Birmingham

[\*Non-linear dynamics in the heart: From single cell to the whole heart\*](#)

Tuesday, Apr. 15,

2003

1:00 PM

Room 054

Physics

**Iain Couzin** -- Ecology and Evolutionary Biology, Princeton University

[\*Self-organisation and collective behaviour in animal groups\*](#)

Tuesday, Apr. 15,

2003

2:15 pm

Room 113

**Emil Simiu** -- NIST at Gaithersburg

[\*TBA\*](#)

Monday, Jun. 23,

2003

10:00 AM

Room 054

Physics

**Camilla Voelt** -- University of Bayreuth and Cornell University

[\*Sedimentation and shearing of suspensions\*](#)

## [\*\*Fall 2003 Schedule\*\*](#)

### **Previous CNCS Nonlinear Seminars:**

[\*\*Fall 2002, Spring 2002, Fall 2001, Spring 2001, Fall 2000, Spring 2000, Fall 1999, Spring 1999, 1998, 1997\*\*](#)

---

Contact [Dan Gauthier](#) to make changes or additions to this page.

