

Detailed Program

Friday 24.08.12

Arrival Day

Welcome Reception / Registration
17.00-Open end, Ruedis House

Saturday 25.08.12

Morning Session 9.00-11.30

9.00-9.20 C. Grebogi
Talk title: Traffic Jam Generates Phase Transition in Translation
9.25-9.45 W.Mathis
Talk title: Dissipative Hamiltonian Systems and the Cassini Oscillator
9.50-10.10 Y.Nishio
Talk title: Various Nonlinear Phenomena in Coupled Simultaneous Oscillators

Coffee break

10.45-11.05 M. Schüle
Talk title: Leibniz, Cellular Automata and the Stoop Notion of Computation
11.10-11.30 N. Corron
Talk title: Exactly Solvable Chaos

Lunch

Afternoon Session 16.00-18.30

16.00-16.20 B. Kappen
Talk title: The Statistical Physics of Control Theory
16.25-16.45 N. Stoop
Talk title: Packing Problems of Thin Elastic Structures

Coffee break

17.15-17.35 H. Herrmann
Talk title: Fracturing Ranked Surfaces
17.40-18.00 T. Ott
Talk title: Online Clustering on Crowdsourcing Platforms using Hebbian-based PCA networks
18.05-18.25 J. Joller
Talk title:

Dinner

20.30 Social program in Ruedis house

Sunday 26.08.12

Morning Session 9.00-11.30

9.00-9.20 J. Kurths
Talk title: Recurrence Networks - A New Paradigm of Time Series Analysis
9.25-9.45 T. Shinbrot
Talk title: Possible Earthquake Precursors

Coffee break

60th Birthday Lectures

10.15-11.15 R. Stoop
Talk title: Beyond Scale-Free Small-World Networks: Cortical Columns for Quick Brains
Chair: L. Bunimovich

11.30-12.30 D. Gonzalez
Talk title: Nonlinear Dynamics: La Vera Scienza dell'Armonia
Chair: O. Piro

Afternoon Excursion to the Thermal Bath Zernez
Meeting point : 14.40, Train Station Lavin
Bring your own swimwear.

19:00 Galadiner at Hotel Crusch Alba

Monday 27.08.12

10:00 Excursion to the Alp Lavinuoz
Meeting Point: 10.00 Ruedis house

Hiking to Alp Lavinuoz with hiker's picnic
Bring some solid shoes if possible.
A "taxi"-service will be provided where needed.

19:00 Barbeque at Ruedis House

Tuesday, 28.08.12

Morning Session 9.00-11.30

9.00-9.20 S. Boccaletti
Talk title: Emerging Topological Features from Adaptive Synchronization of Complex Networks

9.25-9.45 L. Bunimovich
Talk title: Useful Multipurpose Transformations of Networks

9.50-10.10 G. Casati
Talk title: Time Irreversible Billiards

Coffee break

10.45-11.05 A. Pisarchik
Talk title: Stochastic Control of Multistability

11.10-11.30 Ralph Stoop
Talk title: Chemical Sensing using Silicon Nanowire Field-Effect Transistors

Lunch

Afternoon Session 16.00-18.30

16.00-16.20 O. Piro
Talk title: From the Ears of Geckos to a Weird Type of Dynamical Systems

16.25-16.45 S. Martignoli
Talk title: Stochastic Transmission in the Peripheral Auditory System

Coffee break

17.15-17.35 F. Gomez
Talk title: Tuning the Hopf Cochlea Towards Listening

17.40-18.00 R. Klages
Talk title: Spatio-Temporal Dynamics of Bumblebees Foraging under Predation Risk

Dinner

20.30 Social program in Ruedis house

Wednesday, 28.08.12

Morning Session 9.00-11.30

9.00-9.20 U. Feudel
Talk title: Biodiversity in the Ocean: Non-Equilibrium Coexistence of Competing Species

9.25-9.45 J. Cartwright
Talk title: Ice Structures, Patterns, and Processes: A View across the Icefields

9.50-10.10 C. Albert
Talk title: Computational Challenges in Environmental Sciences

Coffee break

10.45-11.05 R. Mathis
Talk title: Nambu Mechanics and Canonical Dissipative Damping

11.10-11.30 Y. Uwate
Talk title: Synchronization in Coupled Polygonal Oscillatory Networks

Departure



Complex Systems 12
CRP Lavin

Co-organized by



Centro di Cultura Scientifica
"Alessandro Volta"

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