



## **III Biennial International Transdisciplinary Seminar on the Complexity Approach February 23 to 27, 2009 Camagüey, Cuba**

### 1st ANNOUNCEMENT

Agency: Ministry of Higher Education

#### **Topics of interest:**

- **Transdisciplinarity:**  
Conceptual and theoretical developments, trans-disciplinary research methodology, trans-disciplinary research projects, challenges and barriers to transdisciplinarity, relationship between discipline, multidiscipline, inter-discipline, trans-discipline and the solution of complex problems of the real world, trans-disciplinary curriculum development, the language of transdisciplinarity.
- **Complexity:**  
Nonlinear Science, Self-organization, Chaos Theory, Fractals, Fuzzy Logic, Soft Computing, Complex Networks Theory, Critical Phenomena, Phase Transitions, Quantum Chaos, Coherent Structures, Random Dynamical Systems Theory, Nonlinear Time Series, Computational Modeling and Simulation of Complex Systems (Agents-based and Cellular Automata); and other ways to approach the study of the complex behavior of the systems. Relationship between complexity and various fields of knowledge. Systematization of the language of complexity.
- **The Transdisciplinary Approach of Complexity:**  
The implications of the complex behavior of systems and the need of a trans-disciplinary vision for their study. Development of complex trans-disciplinary thinking. Reports of examples of solution of complex problems in the real world. The Transdisciplinary University.

#### **Program (preliminary):**

- Workshop sessions on Transdisciplinarity.
- Workshop sessions on Complexity.
- Workshop sessions on the Transdisciplinary Approach of Complexity.
- Workshop sessions on Complexity and social development.
- Workshop special sessions on using Complexity Theory, Simulation and Modeling tools to understand real problems (Including theoretical and hand-on sessions). Agent-based modeling using Netlogo. These sessions will be conducted by researchers from the Santa Fe Complex (New Mexico, USA).
- I Parallel Workshop on Complexity and Aesthetics and Art.
- I Parallel Workshop on Complexity and Medicine.

**Home institution:** Cathedra of Complexity of the University of Camagüey

**Invited home institutions:**

Cathedra of Complexity of the Camagüey Branch of the Higher Institute of Art.  
Center of Medicine and Complexity of the "Carlos J. Finlay" Medical University of Camagüey.  
Center of Study of Community Work at the University of Camaguey.  
Province: Camagüey. Cuba.

**Contacts for information about the workshop:**

- Electronic mail addresses (Please, include in the subject of the message: Taller2009):
- Workshop official e-mail address: [complejidad@reduc.edu.cu](mailto:complejidad@reduc.edu.cu)
- Workshop alternative e-mail address: [3seminariocamaguey2009@gmail.com](mailto:3seminariocamaguey2009@gmail.com)

Lic. Marcelo Chacón Reyes [marcelo.chacon@reduc.edu.cu](mailto:marcelo.chacon@reduc.edu.cu) [marcelochaconr@gmail.com](mailto:marcelochaconr@gmail.com)  
President of the Organizing Committee  
Head of the Cathedrae of Complexity of the University of Camaguey.

**Postal Address:**

III Seminario Bienal Internacional Transdisciplinario sobre el Enfoque de la Complejidad –  
Camagüey 2009  
Cátedra de Complejidad. Universidad de Camagüey  
Carretera de Circunvalación Norte. Km 5.5. Camagüey. Cuba. CP 74650.

**Contact for the I Parallel Workshop on Complexity and Aesthetics and Art:**

Dra.C. Imai Marissa Delgado Guerrero [ITallerCEA@reduc.edu.cu](mailto:ITallerCEA@reduc.edu.cu)  
Head of the Cathedra of Complexity of the Camagüey Branch of the Higher Institute of Art.  
Coordinator of the I Parallel Workshop on Complexity and Aesthetics and Art.

**Contact for the I Parallel Workshop on Complexity and Medicine:**

Lic. Eloy Ortíz Hernández [eloyortiz@infomed.sld.cu](mailto:eloyortiz@infomed.sld.cu)  
Director of the Center of Medicine and Complexity of the "Carlos J. Finlay" Medical  
University of Camagüey.  
Coordinator of the I Parallel Workshop on Complexity and Medicine.

**Internet addresses:**

- <http://www.reduc.edu.cu/otros/eventos/complejidad/taller2009.html>  
General information, calls, dates, programs and so on...
- <http://tallerencamaguey.pbwiki.com/>  
To develop in a collaborative way the program for the special sessions on using  
Complexity Theory, Simulation and Modeling tools to understand real problems (Including  
theoretical and hand-on sessions). Agent-based modeling using Netlogo.
- <http://www.complejidad-camaguey.org/>  
Information about how are we doing complexity in Camaguey, Cuba. A mirror which will  
be updated with the different announcement and calls of the workshop.

The Seminar will be distinguished by its organization, which will promote innovative ways to exchange experiences in order to guarantee and encourage a vision beyond the disciplines, conceptual barriers, experiences and training of the participants; ensuring a dynamical and flexible context for dialogue and debate.

2nd Announcement and Call for papers will be issued soon...