

Archaeology, Environment, Complexity

Collaboration between archaeology and science has always been extraordinarily fertile, contributing significantly to the understanding of historical processes and stimulating research and application to the study of complex scientific phenomena recorded in the field of archaeology and in the research on the origins of life (archaea bacteria). An intention in proposing this chair was to recognize an interesting new chapter of this alliance. Research into the traces of past activity, like a plot to decipher, persists in different environmental matrices as different forms of contamination, revealing precious historical information. At the same time, past activity can also provide information on sources of environmental contamination and how they spread. Environmental and ecological modelling can be useful to describe and interpret the complexity of these data. A further lesson that can be drawn from this type of research is closely linked to the sustainability of human exploitation of land and resources. Loss of natural resources can be a consequence of activities that had irreversible impact in the course of history.

Sven Erik Jørgensen

- Emeritus professor at Copenhagen University in Environmental Chemistry, Denmark
- Einstein Professor at the Chinese Academy of Science
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- Dr. Hon Cau. at Coimbra University, Portugal and at Dar es Salaam University, Tanzania

For updates, check on our website www.unisi.it/santachiara

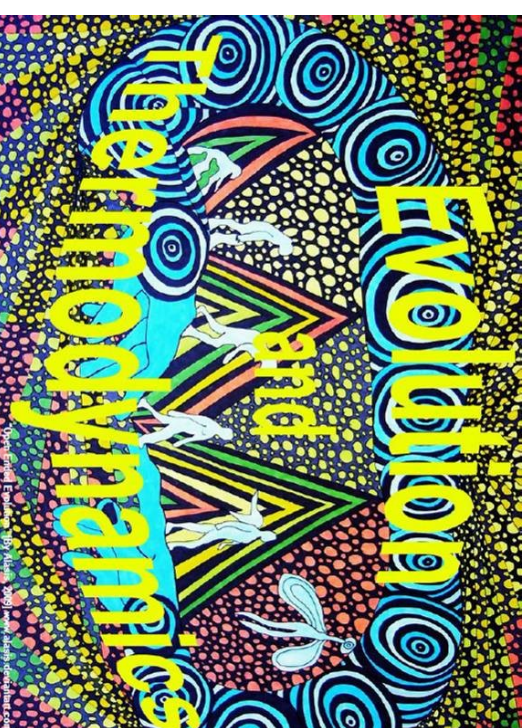


UNIVERSITÀ DEGLI STUDI DI SIENA

- *Riccardo Francovich: Medieval History and Archaeology, Institutions and Archives* -
- Environmental Sciences and Technologies -
- Chemical Sciences -

Innovative scientific methods in archaeological and environmental studying

April 2010



Con il contributo di



FONDAZIONE
MONTE DEI PASCHI
DI SIENA

1st Advanced Course on Ecological Modelling

Course Director:
Sven Erik Jørgensen
Co-teacher:
Simone Bastianoni

Contents of the course
(Topics of Lectures) *How to go modelling 1*
How to go modelling 2
Model types
Biogeochemical models
Population dynamic models
Ecotoxicological models
Spatial models
Structurally dynamic models

12 April 2010
h. 9-13+14.30-18.30

13 April 2010
h. 9-13+14.30-18.30

14 April 2010
h. 9-13+14.30-18.30

15 April 2010
h. 9-13+14.30-18.30

(Exercises/group work) working groups
consisting of 2/4 members for developing
own models

16 April 2010
h. 9-13+14-18

All lessons and seminars will be held in Centro Didattico
Laterino, Via del Laterino 2

Evolution and Thermodynamics
Closure seminar

19 April 2010
h. 16:30
Auditorium S. Chiara

CHAIR EVENTS OF PROF. S.E. JØRGENSEN: NEXT AUTUMN 2010

Chair in **Archaeology, Environment,**

Complexity
Prof. Sven E. Jørgensen

