Complexity in the Oil Industry Applications to subsurface modelling COI 2007 First call for papers

NATAL, BRAZIL 5th-9th August 2007

Introduction:

An international meeting to promote collaboration between physical scientists and oil industry engineers working on the modelling of geological reservoirs as complex systems. The subsurface can be studied with theories and techniques developed /in complexity science: the presence of multiple length-scales, the need to preserve heterogeneity while compressing information and the high degree of uncertainty at all stages of modelling and decision making. Results from statistical physics are routinely applied in modelling geological systems, which often present scaling phenomena such as fractal geometry complex and dynamics.

Invited speakers:

Brian Berkowitz, Weizmann Institute, Israel Alex Hansen, NTNU, Norway Felix Herrmann, UBC, Canada Lincoln Paterson, CSIRO, Australia Mohammad Sahimi, USC, USA Carlos Tadeu da Costa Fraga, CENPES (Petrobras Research Center)

Suggested topics:

- Percolation theory and fast methods for reservoir performance estimation
- Fractal/multifractal and anomalous transport
- Applications of wavelets to geological modelling and seismic interpretation
- Uncertainty and estimation of risk
- Inverse problems

Liacir Lucena, UFRN, Brazil; Peter King, Vera Pancaldi, Imperial College London, UK

Geological process modelling

You are invited to submit a

1 page abstract to abstracts@coi2007.com

Deadline for abstract submission 23rd February 2007

Accepted papers will be notified by 30th March 2007. Authors of papers not accepted for oral presentation will be offered the opportunity to present a Poster.

Deadline for early registration 1st June 2007

For further information and to register interest in attending contact vera.pancaldi@imperial.ac.uk or info@coi2007.com

Conference website http://www.coi2007.com/

Venue: Hotel Rifoles http://www.rifoles.com.br/

International organising committee:

Call for papers and deadlines: