



## Short Courses

ECROFI XVIII - Siena 4-5 July 2005

### Fluid inclusions applied to petroleum geology (b)

#### Program

**Day 1: 04-07-2005**

Morning 1 (common to the two courses a & b)

10.00

Welcome

*R.J. Bodnar*

Introduction

11.30 - Coffee break

12.00 – *R. Bakker*

Introduction to PVT modelling

Some definitions (isochore, fluid phases, diagrams, etc...)

13.00 - Lunch

Afternoon 1 (b) *J. Pironon*

14.30 - Introduction to petroleum inclusions.

Petrography and UV fluorescence

16.00 - Coffee break

16.30 - Introduction to analytical techniques:

Focus on individual analyses

- Microthermometry
- Raman spectrometry
- Infrared spectrometry
- Confocal scanning laser microscopy

18.00 - End of day 1

**Day 2: 05-07-2005**

Morning 2 (b) R. Bakker

9.30 - Introduction to PVT modelling applied to petroleum fluids (*J. Pironon*)  
PVT modelling of the H<sub>2</sub>O-CH<sub>4</sub>-NaCl system (role of gases on pressure reconstruction)

11.00 - Coffee break

11.30 - PVT modelling of petroleum inclusions (composition, two-phase domains, etc)  
Coupling aqueous and petroleum systems (trapping P-T conditions)

13.00 - Lunch

Afternoon 2 (b)

14.30 - J. Pironon  
Applications (some examples)

15.00 - J. Pironon and R. Bakker  
Discussions

16.00 - *End of course*

18.00 - *Welcome Party ECROFI XVIII*