

## LECTURERS:

### I. Short Course: *The Role of Oil and Natural Gas in Light of the New Mineral Resources Management Strategy in Croatia (June, 15<sup>th</sup>) – Setting general & specific strategic goals, implementation measures and problems*

1. *Faculty of Mining, Geology & Petroleum Engineering, University of Zagreb, Croatia*
2. *Croatian Hydrocarbon Agency, Croatia*
3. *Croatian Energy Regulatory Agency (HERA)*
4. *Croatian Energy Market Operator (HROTE)*
5. *INA Plc., Croatia (exploration and production perspective)*
6. *INA Plc., Croatia (refining perspective)*
7. *Janaf Plc., Croatia*
8. *Plinacro Ltd., Croatia*
9. *LNG Croatia Ltd., Croatia*
10. *PSP Ltd., Croatia*
11. *INA Plc., Croatia (gas market perspective)*
12. *HEP Plc., Croatia*
13. *Balancing group leaders*

### II. Short Course: *Reservoir Stimulation Techniques (from acidizing to massive frac) & Naturally Fractured Reservoirs (June, 16<sup>th</sup> -19<sup>th</sup>)*

1. DSc Arash Dahi Teleghani (Louisiana State University, USA)
  - *Introduction to hydraulic fracturing treatment*
  - *Rock Mechanics and Elasticity principles*
  - *Fracture mechanics*
  - *Natural fractures and their role in hydrocarbon reservoirs*
  - *In situ stress and rock mechanical properties*
  - *Hydraulic Fracture Geometry*
  - *Design issues*
2. DSc Branimir Cvetković (Petro Brelle Energy Ltd., Norway):
  - *Naturally fractured reservoirs (Fractured system determination, Fractured system distribution, Flow simulation in fractured system)*
  - *Coupling of well with fracture to reservoir- modelling & simulation*
  - *Screening production profiles*
3. Krešo Kurt Butula (Schlumberger Russia & Central Asia):

- *Horizontal well multi stage fracturing (Completion systems, design, execution, measurements & case history)*
- *Re-fracturing Horizontal well multi stage fracturing (Completion systems, design & case history)*

## WORKSHOP OVERVIEW

### **Sunday – June 14, 2015**

5.00 p.m. – 7.00 p.m. Registration of Participants  
(Inter-University Centre (IUC),  
4 Don Frana Bulića, Dubrovnik)

### **Monday – June 15, 2015**

8.00 a.m. – 9.00 a.m. Registration of Participants (IUC, PESS Office, First Floor)

9.00 a.m. – 9.30 a.m. Opening Ceremony (IUC, Conference Room, Ground Floor)

9.30 a.m. – 11.00 a.m. I. Session (IUC, Conference Room, Ground Floor)  
Croatian Hydrocarbon Agency, Croatia  
Croatian Energy Regulatory Agency (HERA)  
Croatian Energy Market Operator (HROTE)

11.00 a.m. – 11.30 a.m. Coffee Break (IUC Atrium)

11.30 a.m. – 1.00 p.m. II. Session (IUC, Conference Room, Ground Floor)  
*INA Plc., Croatia (exploration and production perspective)*  
*INA Plc., Croatia (refining perspective)*  
*Janaf Plc., Croatia*

1.00 p.m. – 1.30 p.m. **Welcome Cocktail** (IUC Atrium)

1.30 a.m. – 3.00 p.m. III. Session (IUC, Conference Room, Ground Floor)

Plinacro Ltd., Croatia  
LNG Croatia Ltd., Croatia  
PSP Ltd., Croatia

3.00 p.m. – 3.30 a.m. Coffee Break (IUC Atrium)

3.30 a.m. – 5.00 p.m. IV. Session (IUC, Conference Room, Ground Floor)  
INA Plc., Croatia (gas market perspective)  
HEP Plc., Croatia  
Balancing group leaders

5.00 p.m. **Late Lunch/Early Dinner** (Mimosa Restaurant)

### **Tuesday – June 16, 2015**

9.30 a.m. – 11.00 a.m. IV. Session (IUC, Conference Room, Ground Floor)  
DSc Branimir Cvetkovic (Petro Brelle Energy Ltd., Norway):

- *Naturally fractured reservoirs (Fractured system determination, Fractured system distribution)*

11.00 a.m. – 11.30 a.m. Coffee Break (IUC Atrium)

11.30 a.m. – 1.00 p.m. V. Session (IUC, Conference Room, Ground Floor)  
DSc Branimir Cvetkovic (Petro Brelle Energy Ltd., Norway):

- *Naturally fractured reservoirs (Flow simulation in fractured system)*

1.00 p.m. – 1.30 p.m. Coffee Break (IUC Atrium)

1.30 a.m. – 3.00 p.m. VI. Session (IUC, Conference Room, Ground Floor)  
DSc Branimir Cvetkovic (Petro Brelle Energy Ltd., Norway):

- *Coupling of well with fracture to reservoir- modelling & simulation*

### **Wednesday – June 17, 2015**

9.30 a.m. – 11.00 a.m. VII. Session (IUC, Conference Room, Ground Floor)  
DSc Branimir Cvetkovic (Petro Brelle Energy Ltd., Norway):

- *Screening production profiles*

11.00 a.m. – 11.30 a.m. Coffee Break (IUC Atrium)

11.30 a.m. – 1.00 p.m. VIII. Session (IUC, Conference Room, Ground Floor)  
DSc Arash Dahi Teleghani (Louisiana State University, USA)

- *Introduction to hydraulic fracturing treatment*
- *Rock Mechanics and Elasticity principles*

2.00 p.m. **Excursion**

### **Thursday – June 18, 2015**

9.30 a.m. – 11.00 a.m. IX. Session (IUC, Conference Room, Ground Floor)  
DSc Arash Dahi Teleghani (Louisiana State University, USA)

- *Fracture mechanics*

11.00 a.m. – 11.30 p.m. Coffee Break (IUC Atrium)

11.30 p.m. – 13.00 p.m. X. Session (IUC, Conference Room, Ground Floor)  
DSc Arash Dahi Teleghani (Louisiana State University, USA)

- *Natural fractures and their role in hydrocarbon reservoirs*
- *In situ stress and rock mechanical properties*

13.00 a.m. – 13.30 p.m. Coffee Break (IUC Atrium)

13.30 p.m. – 14.30 p.m. X. Session (IUC, Conference Room, Ground Floor)  
DSc Arash Dahi Teleghani (Louisiana State University, USA)

- *Hydraulic Fracture Geometry*
- *Design issues*

