

## MONDAY, June 16th, 2025

IUC, Conference Room, Ground Floor

Chairmen: Dr. Daria Karasalihović Sedlar

- 09:30 - 10:00 **OPENING CEREMONY** - Welcome Addresses
- 10:00 - 10:45 **Jadranka Leško (Croatian Ministry of Economy)** - Geothermal Energy Exploration & Development
- 10:45 - 11:30 **Zorica Kurešić (Croatian Hydrocarbon Agency)** - Unlocking Geothermal Potential Through the National Recovery and Resilience Plan: Strategic Role of the Croatian Hydrocarbon Agency
- 11:30 - 12:00 **Coffee break**
- 12:00 - 13:30 **Arnbjörn Ólafsson (GeoCamp Iceland)** - Iceland Geothermal Energy and the Energy Transition in Iceland: Bridging Industry and Education through Geothermal Innovations
- 13:30 - 14:30 **WELCOME RECEPTION**
- 14:30 - 15:30 **Mark Smith (OMV)** - Innovative Technologies in Drilling and Completion in Geothermal Wells, High Pressure/High Temperature in Geothermal Wells
- 15:30 - 16:00 **Dr. Damir Zdravec (Fika Eco)** - The Impact of Thermal Expansion on Geothermal Wells Integrity
- 16:00 - 16:30 **Coffee break**
- 16:30 - 18:00 **Marie-Caroline Spallart (OMV)** - GHG Emissions Monitoring and Management
- 18:00 - 18:45 **Giacomo Rufo Menghetti (Exergy)** - Surface Technologies for Geothermal Power Generation and District Heating: Advances In Binary Cycle Systems and Large-Scale Heat Pumps With European Case Studies

20.00 **NETWORKING DINNER**

## TUESDAY, June 17th, 2025

IUC, Conference Room, Ground Floor

Chairmen: Dr. Luka Perković

- 09:00 - 10:30 **Dr. Keita Yoshika & Dr. Chaofan Chen (Montanuniversität Leoben)** - Borehole Heat Exchanger: Theory and Applications
- 10:30 - 11:00 **Coffee Break**

- 11:00 - 12:30 **Dr. Keita Yoshika & Dr. Chaofan Chen (Montanuniversität Leoben)** - Borehole Heat Exchanger: Modelling with OpenGeoSys
- 12:30 - 13:30 **Break**
- 13:30 - 15:00 **Dr. Keita Yoshika & Dr. Chaofan Chen (Montanuniversität Leoben)** - Open-loop Systems: Theory and Applications
- 15:00 - 15:15 **Break**
- 15:15 - 16:45 **Dr. Keita Yoshika & Dr. Chaofan Chen (Montanuniversität Leoben)** - Open-loop Systems: Modelling with OpenGeoSys
- 16:45 - 17:00 **Break**
- 17:00 - 18:30 **Dr. Luka Perković (Faculty of Mining Geology and Petroleum Engineering)** - Mathematical modelling of operating parameters for the geothermal power plant

## WEDNESDAY, June 18th, 2025

IUC, Conference Room, Ground Floor

Chairmen: Zorica Kurešić

- 09:00 - 10:30 **Giulia Cittadini (European Geothermal Energy Council)** - The Policy Momentum of Geothermal in Europe
- 10:30 - 11:00 **Coffee break**
- 11:00 - 12:30 **Giulia Cittadini (European Geothermal Energy Council)** - Innovative Business Models for Geothermal District Heating and Cooling Systems Development
- 15:00 - 23:00 **EXCURSION – Dubrovnik County**

## THURSDAY, June 19th, 2025

IUC, Conference Room, Ground Floor

Chairmen: Dr. Marija Macenić

- 08:00 - 10:30 **DUBROVNIK OLD CITY GUIDED WALK**
- 11:00 - 12:00 **Darcy Spady (Carbon Connect International)** - Emission Management Related to Geothermal Exploration
- 12:00 - 13:00 **Diana Xiuhneli Herrera (Halliburton)** - Transforming Geothermal Exploration: Digital Well Program Ecosystem Integrating Collaborative Well Engineering, Real Time Solutions and Emissions management
- 13:00 - 13:30 **Coffee break**

- 13:30 - 14:10 **Dr. Tomislav Kurevija (TRANSGEO project)** - Transforming Abandoned Wells for Geothermal Energy Production - TRANSGEO Project Introduction
- 14:10 - 14:40 **Dr. Ferenc Fedor, Dr. Marija Macenić (TRANSGEO project)** - Well Repurposing Potential of Central Europe - Setup of Regional Databases for Pannonian Basin
- 14:40 - 15:30 **Dr. Janos Kovacs, Matej Prkič, Dr. Marija Macenić (TRANSGEO project)** - Development of Well Assessment and Repurpose Potential of the Pannonian Basin System in Hungary, Slovenia and Croatia
- 15:30 - 16:00 **Coffee break**
- 16:00 - 17:30 **Dr. Tomislav Kurevija, Dr. Ferenc Fedor, Dr. Janos Kovacs, Matej Prkič (TRANSGEO project)** - Feasibility Studies for Pilot Sites in Croatia, Hungary and Slovenia

## FRIDAY, June 20th, 2025

IUC, Conference Room, Ground Floor

Chairmen: Katarina Marojević

- 09:00 - 10:00 **Dr. Berislav Gašo (OMV)** - Enhancing OMV's Energy Portfolio by Adding Renewables and Geothermal Solutions to the Traditional E&P Business
- 10:00 - 11:00 **Dr. Hannes Hofmann (GFZ)** - Reuse of Hydrocarbon Wells for Geothermal Energy Production I
- 11:00 - 11:30 **Coffee break**
- 11:30 - 13:00 **Dr. Hannes Hofmann (GFZ)** - Reuse of Hydrocarbon Wells for Geothermal Energy Production II
- 13:00 - 13:30 **CLOSING CEREMONY**
- 13:30 - 14:30 **FAREWELL RECEPTION**

Participants are encouraged to bring their own laptop.  
The organizers reserve the right to make changes to the Program.

## REGISTRATION and GENERAL INFORMATION:

 [www.rgn-pess.com](http://www.rgn-pess.com)

 [Petroleum Engineering Summer School](#)

PESS EXECUTIVE DIRECTOR:  
Dr. Daria Karasalihović Sedlar

CHAIRMAN OF THE PESS ORGANIZING COMMITTEE:  
Dr. Ivan Smajla

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ACCOMMODATION: IUC Dorm, CAAS apartments  
[iuc.hr/accommodation/dormitory](http://iuc.hr/accommodation/dormitory)

LOCATION: IUC Dubrovnik - [iuc.hr](http://iuc.hr)  
Don Frana Bulića 4, HR-20000 Dubrovnik, Croatia

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## OIL & GAS EXPLORATION AND PRODUCTION

### IN CROATIA

#### Production



**23.1**  
Mboe/d  
in 2024

#### 2P Reserves



**65**  
MMboe  
in 2024

### IN EGYPT

#### Production



**1.9**  
Mboe/d  
in 2024

#### Reserves



**2.3**  
MMboe  
in 2024

### ONSHORE AND OFFSHORE

#### Oil fields



**38**  
in production  
in 2024

#### Gas fields



**28**  
in production  
in 2024



## PETROLEUM ENGINEERING SUMMER SCHOOL

**WORKSHOP 58**  
June 16th – 20th 2025  
IUC – DUBROVNIK

### Geothermal Energy Exploration and Production



University of Zagreb  
**FACULTY OF MINING,  
GEOLOGY AND PETROLEUM  
ENGINEERING**

