

Petroleum Engineering Summer School
University of Zagreb
Faculty of Mining Geology and Petroleum Engineering
Pierottijeva 6
10000 Zagreb
Croatia



Petroleum Engineering Summer School (PESS) Dubrovnik

Short Review

Petroleum Engineering Summer School (PESS) has been operating within the academic program for advanced studies of the Inter-University Centre Dubrovnik (IUC) for more than twenty years. The interactive seminars within PESS are organized by the Executive Director of the PESS, a professor from the Petroleum Engineering Department of Faculty of Mining, Geology & Petroleum Engineering (www.rgn.hr) University of Zagreb, and co-directors, distinguished professors from Croatian universities and abroad.

The mission of the Petroleum Engineering Summer School is the exchange of knowledge at academic and expert level, offering the extensive possibilities for international collaboration of the professionals in the energy sector.

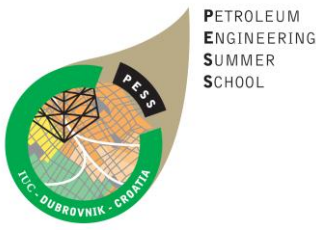
Petroleum Engineering Summer School (PESS) is organized every year in June with two interactive seminars or workshops, each lasting five days, and it is held in the IUC building (www.iuc.hr), in the historic city of Dubrovnik.

The topics covered by Petroleum Engineering Summer School are current contemporary technical, technological, environmental and economic issues in field of petroleum industry and energy industry in general.

Papers prepared by participants are presented in English and followed by professional discussions. Outstanding professors and experts from the USA, Europe, and other regions participate as guest speakers or lecturers. Lectures are supplemented by voluminous syllabi printed in English or issued on CD-ROM.

Since 1987, the following issues have been covered by PESS (chronologically):

- Downhole Production Fluid Dynamics,
- Downhole Drilling Data Acquisition,
- Enhanced Oil Recovery,
- Well Completion Mechanics – Casing and Tubing,
- System Analysis (Nodal Analysis) to Maximize Production,
- Open Hole Well Log Measurement,
- Open Hole Well Log Interpretation,
- Selection of Optimal Artificial Lift System,
- Pressure Transient Test Analysis,



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- Rational Development in Marginal and Mature Oil and Gas Reservoirs,
- Lifecycle Oil and Gas Management,
- Geomodelling in Exploration and Production of Oil and Gas,
- Optimization of Oil and Gas Production,
- Gas Engineering,
- Risk Minimization and Probabilistic Application in the Petroleum Industry,
- Research and Development in a Modern Petroleum Production Company,
- Synergy Between Science, Engineering and Economy in the Management of the Petroleum Industry,
- IOR Methods for Economical Oil Recovery from Small Oil Fields,
- Waste Management in the Petroleum Industry,
- Natural Gas – from Reservoir to the Burner Tip,
- Contemporary Oil Gas Well Completion and Workover Jobs,
- The Big Future Picture of Petroleum Engineering,
- Natural Gas – from Reservoir to the Burner Tip (part two),
- The Impact of New E&P Technologies on Oil Peak and HC Reserves,
- The New Aspects of Formation Damage & Water Control,
- Production Operations – Artificial Lift,
- Geothermal Fields Development,
- Production Operations – Surface Facilities Design,
- Unconventional IOR Methods and Unconventional HC Reserves.

Interactive Seminars-Workshops in June 2011:

- **Workshop 31: Contemporary Challenges of Economics and Management in Oil & Gas Industry** with short courses **Energy Security and Supply** and **Health, Safety and Environmental Protection**
- **Workshop 32: New Frontiers of Exploration, Production and Processing in Oil & Gas Industry** with short courses: **Risk Management** and **Natural Gas Market Issues**

Postgraduate students of petroleum engineering, geology and other technical professionals, young managers, as well as economists, participate in PESS. Papers presented at the workshops, have been published in the scientific journal "Nafta", published by Croatian National Committee World Petroleum Council and Croatian Academy of Science and Arts or in "The Mining-Geological-Petroleum Engineering Bulletin", publication of Faculty of Mining, Geology & Petroleum Engineering, University of Zagreb.

Approximately fifty to sixty participants attend each of the workshops. At the end of each workshop, the Inter-University Centre Dubrovnik (IUC) awards participants with a special Certificate of Participation.



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Long-term collaboration in organizing the Petroleum Engineering Summer School has been established with university professors from the USA (Louisiana State University, University of Louisiana at Lafayette, the Colorado School of Mines, the University of Oklahoma, the University of Tulsa, Texas A&M University), Austria (Innsbruck University, Leoben University), Hungary (the Miskolc University, University of Szeged), Russia (Gubkin State University), Romania (Petroleum and Gas University-Ploesti), the Netherlands (TU Delft), Venezuela, Iraq (University of Sulaimani) and Malaysia (University of Technology Petronas).

The majority of participants are, in addition to students, professors from the Faculty of Mining, Geology & Petroleum engineering University of Zagreb, as well as experts, professionals and managers from INA Group, MOL Group, and ENI S.p.A., and other energy companies mostly from neighbouring countries.

In addition to financial support of the Croatian Ministry of Science, Education and Sport, the traditional sponsors of PESS are: INA Group, MOL Group, INAgip, JANAF, Plc, PLINACRO, Plc, Adria LNG Schlumberger, MI SWACO and Croatian National Committee World Petroleum Council, as well as SPE Croatian Section.

Professor Igor Dekanić, Ph.D.

PESS Executive Director

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