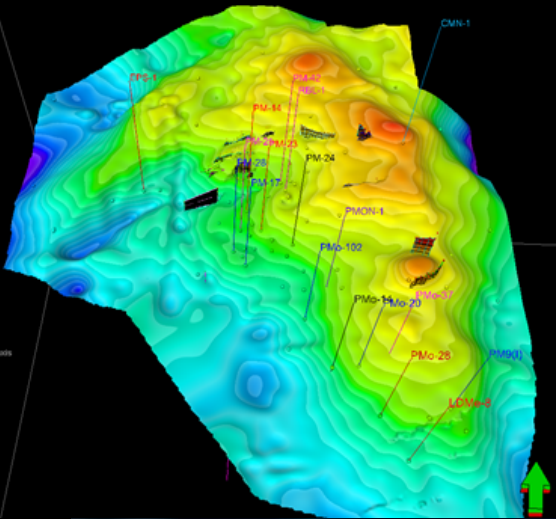


GEOSCIENCE IN THE ENERGY INDUSTRY

Dr. Elena Morettini
Geoscience Advisor - YPF



YPF

Short Course

Department of Physics and Geology, Perugia University

December, 4th – 7th, 2018 – Room F (Palazzo delle Scienze)

DAY 1

Tuesday 4th December

9.00 – 12.30hs

1. Introduction and Course Outline
2. The last 20 years of the Oil and Gas Industry
3. Reservoir Geology: a multidisciplinary approach
4. Q&A Session

14.30 – 17.00hs

1. Carbonate and Siliclastic Reservoirs
2. Conventional and Unconventional Reservoirs
3. Fractured Reservoirs
4. Q&A Session

DAY 2

Wednesday 5th December

9.00 – 12.30hs

1. Characterization of Carbonate Reservoirs
2. Characterization of Siliclastic Reservoirs
3. Mixed Reservoirs
4. Q&A Session

14.30 – 17.00hs

1. The 3D Reservoir World
2. Static Reservoir Modelling
3. Dynamic Reservoir Modelling
4. Q&A Session

DAY 3

Thursday 6th December

9.00 – 12.30hs

1. Integrated 3D Static and Dynamic Modelling: methodology
2. Case studies: Oil and Gas Fields 3D Models
3. Q&A Session

14.30 – 17.00hs

1. The applications of reservoir models
2. Oil and Gas Field Development Planning
3. Q&A Session

For informations:

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DAY 4

Friday 7th December

9.00 – 12.30hs

1. Energy Today: energy transitions, energy efficiency, energy access.
2. Resource efficiency, circular economy and climate change
3. Just Transitions: a concept we all need to embrace
4. Q&A Session

14.30 – 17.00hs

1. The future of Geosciences in the Energy Industry : Horizon 2050
2. Concluding Remarks
3. Q&A Session

Elena Morettini - Brief CV Narrative

She is Chief Development Geologist. Her principal activity has been project and portfolio management and optimization, based on reservoir characterization and modelling and field development and planning. Previously in the oil industry, she has worked on field development plans for giant fields (BuHasa, Asab, Fahud, North Pars, Zhakum among others), and modelled conventional siliciclastic and carbonate reservoirs in the Middle East, Mediterranean, Central America and South America Regions [MAS CIFRAS]. During the past 6 months, she has been in charge, as B20-YPF Officer, of the Energy, Resource Efficiency and Sustainability B20 TaskForce. In such capacity, she led a multidisciplinary team formed by 150 international energy companies representing their respective countries, that was responsible of issuing policy recommendations to the Energy Ministers of the G20.

Main Expertise

- Energy Transitions
- Conventional and unconventional field development and re-development, optimization and planning.
- Reservoir characterization and integrated static and dynamic modelling for primary, secondary and EOR hydrocarbon recovery.
- Volume re-quantification, reserves booking of oil and gas fields at all scales.
- Strategic planning for oil and gas assets.
- Project Management and supervision at all levels

