11th OFFSHORE MEDITERRANEAN CONFERENCE & EXHIBITION
CHARTING A COURSE IN A CHANGING SEA

RAVENNA
March 20–22, 2013

CONFERENCE PROGRAMME
PALA DE ANDRÉ
RAVENNA, ITALY
MARCH 20–22, 2013

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In recent years several factors have deeply influenced the international energy scenario: the ongoing financial crisis, the geopolitical instability not only in North Africa and the price volatility especially of gas, just to mention a few. Nevertheless the industry is strongly committed to securing the energy supply to fuel economic growth. Achieving this goal requires huge investments, the development of highly sophisticated technologies. Top priority is the need to guarantee health and safety for the communities and the protection of the environment.

These considerations provided the theme for OMC 2013. The framework the Energy Industry operates in can be compared to a turbulent sea and we are urging the industry to chart new courses in this changing sea.

The focus will be on the relevant challenges that have recently come up: the huge discoveries in the Eastern Mediterranean and the opening of new blocks offshore Algeria, the exploration for unconventional gas, and the perspective developments in Western Africa and Mozambique.

A special session will be dedicated to the “Social responsibility” of the industry in their area of operations. Social responsibility has become a key issue intersecting the full cycle of any project: its proper management helps to reduce the project risk and promote sustainability.

A specialized workshop organised by the Automation Industry Association will provide an overview on the new solid technologies to enable Oil Companies in improving energy management, process control, and safe operations in conventional and unconventional fields, whilst a workshop organized by the Maritime Industry Association will address the progress made in the design and operational features of new offshore service vessels.

The prestigious list of invited delegations at the next OMC 2013 will include the Ministers of Petroleum and CEOs of North Africa, West Africa and the Middle East, as well as from Eastern Mediterranean countries and Mozambique which stand out as new major producing countries.
MESSAGE FROM OMC 2013
PROGRAMME COMMITTEE CHAIRMAN

The ample response to the call-for-papers proves, one again this year, that OMC provides a unique and valued context for discussing the latest developments in oil & gas technology and their applications.

A wide-ranging technical programme comprised of 26 Technical Sessions and crossing the entire E&P chain, from exploration to production, promises to recognise the scientific, technological and professional achievements of the oil & gas sector. In the pages that follow you will find details about the Sessions.

A special Session will be dedicated to “Social Responsibility,” showcasing the commitment of the oil & gas industry to operate in an environmentally friendly way, respectful of social issues and fully compliant with regulatory requirements.

For the third concurrent edition OMC will dedicate special attention to Young Talents. The Student Arena will host young people to engage in discussion with senior industry leaders and learn about what the industry can offer them. In addition, the SPE European Regional Student Paper Contest will be run for the first time within the OMC conference: students from across Europe will be presenting their work and competing for recognition.

I invite you not to miss out on the opportunity to attend the largest Mediterranean gathering of the petroleum industry.

See you in Ravenna!

Thomas Lockhart
OMC 2013
STEERING COMMITTEE

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Michelangelo TORTORELLA Proger Spa, Italy
Nasser WALI Egpc, Egypt
Piero ZIPOLI IES, Italy

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Alex STILLAVATO eni e&p, Italy
Claude VALENCHON SAIPEM Sa, France
Danilo VARDANEGA Schlumberger, Italy
Francesca VERGA Politecnico di Torino, Italy
Paul WHITE Ge oil & gas, Uk
Steve YOUNG M-I Swaco, Usa
**TECHNICAL SESSIONS**

**Tuesday 19th**
- 14,30 Exploration Prospects in the Mediterranean Basin
- 14,30 Flow Assurance
- 14,30 Drilling Technology Advances
- 16,25 Seismic Interpretation & Satellite Field Exploration
- 16,25 Gas Valorisation
- 16,25 Drilling Optimization

**Wednesday 20th**
- 09,00 Drilling Fluids
- 09,00 Protecting the Community and the Environment
- 09,00 Deepwater Technologies
- 09,50 Hydrocarbon Prospectivity of Different Basins 1
- 11,05 Hydrocarbon Prospectivity of Different Basins 2
- 11,05 Completion
- 11,05 Offshore Technologies
- 14,30 Risk Evaluation and Training
- 14,30 Increasing Reserves
- 14,30 Unconventional Resources 1
- 16,25 Monitoring, Inspection and Operations
- 16,25 Advanced Methodologies for Complex Reservoirs
- 16,25 Unconventional Resources 2
- 17,15 Technologies for the Future 1

**Thursday 21st**
- 09,00 HP-HT and E&P Challenges
- 09,00 Field & Production Optimisation
- 09,00 Technologies for the Future 2
- 11,05 New Logging Techniques
- 11,05 Offshore Pipeline Integrity
- 11,05 Safety Enhancement for Facilities and Materials

**Friday 22nd**
- 09,00 Workshop: Facing the new Oil & Gas challenges: Automation industry today is able to provide solid technologies to enable Oil Companies in improving production optimization, energy management, process control, and safety operations in conventional and unconventional Fields.

**SPECIAL SESSIONS AND SIDE EVENTS**

**Tuesday 19th**
- 09,30 Inauguration
- 10,30 Opening Ceremony
- 11,00 Opening Plenary Session ‘Charting a Course in a Changing Sea’

**Wednesday 20th**
- 09,00 Workshop: Facing the new Oil & Gas challenges: Automation industry today is able to provide solid technologies to enable Oil Companies in improving production optimization, energy management, process control, and safety operations in conventional and unconventional Fields.
- from 09,00 all day SFE Student Contest Room A
- from 09,00 all day Students meet the industry, in the Student Arena
- 14,30 Workshop: Service Vessels: Features, Technology, Innovation
- from 09,00 all day SFE Student Contest in the Student Arena
- 09,00 Special Session: Social Responsibility in Frontier and Mature Areas

**Thursday 21st**
- 09,00 Golf Trophy at Adriatic Golf Club in Cervia
- 20,00 Welcome reception at OMC Venue sponsored by Ravenna Chamber of Commerce
- 09,00 The Adventure of Mosaics Guided Tour
- 15,00 Ravenna City Centre Guided Tour
- 20,00 Gala Concert in Sant’Apollinare in Classe sponsored by Shell
- 09,00 Tiles Tales Guided Tour

**SOCIAL EVENTS**

- 15,00 Welcome to Ravenna Guided Tour
- 21,00 Gala Dinner at OMC Venue sponsored by Eni
**ROOM B**

**Exploration Prospects in the Mediterranean Basin**

**Chairmen:** Boubekeur Malek, Sonatrach - Mostafa El Bahr, EGAS

**IMMED_02**
Deep Structure and Foredrop Evolution of the Levant Margin
Alessio Cappelletti, Chiara Barbieri, Matteo Gilardi, Francesca Melchiori, Giuseppe Rea, eni spa

**IMMED_03**
Aspects of the Depositional History of the Levantine Basin, Offshore Cyprus and Lebanon
Fürstenau Jörn, Euan Anderson, John Comstock, Caroline Jane Lowrey, Petroleum Geo-Services, Nicolas Hawie, Université Pierre et Marie Curie

**IMMED_04**
Available Data and Petroleum Interest of the Algerian Offshore Basin
Nahim Khennaf, Abderrahmane Laddada, Sonatrach Exploration

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**ROOM C**

**Flow Assurance**

**Chairmen:** Peter Johannesen, Aker Solutions - Eric Deville, IFP

**FLOW_01**
Optimization of Finger Type Slugcatcher Design Through Rigorous Transient Multiphase Flow Analysis
Vittorio Faluomi, Simone Sodini, Cristiano Di Benga, Tea Sistemi

**FLOW_02**
Contribution to Integrity Assessment of Pipelines Transporting Hydrocarbons
Antonio Bennardo, Gabetta Giovanna, Michele Margarone, eni E&P

**FLOW_03**
Waelo Hamed Abdel Moati, Petrobel

**FLOW_04**
Advanced Flow Assurance Diagnostics in Val d’Agri
Marco Piantanida, Alberto Di Lullo, Cristina Bottani, Luigi Padula, eni, Gilberto Latini, Saipem

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**ALTERNATE**

**FLOW_06A**
Methodology for Characterising Hydrodynamic Slugs and Operational Mitigation Strategy Using Olga Slug Tracking Module for Egina Field Development
Sunday Omowunmi, Mohamed Abdussalam, Rob Janssen, Patrick Otigbah, Total E&P
Drilling Technology Advances

Room D 
14.30 – 16.05

Chairmen: Tony Martin, Baker Hughes - Paolo Allara, Saipem

DRILTEC _01
Meeting the Challenge of Coring within an Unconsolidated and Unconventional Reservoir in the Adriatic Sea: a Successful Case History in Small-size Borehole

DRILTEC _02
Downhole Chemical Tracer Applications for Clean-up and Production Inflow Monitoring with Onshore Wells in Italy

DRILTEC _03
Advanced Drilling Time Analysis Through the Combination of Operations Reporting & Sensors Data
Fabrizio Zausa, Silvia Masi, eni E&P, Jean Michelez, Nicola Rossi, Kwantis

DRILTEC _04
Developing a Drilling Automation Technology Roadmap
Mario Zamora, Tom Geehan, MI Swaco

Seismic Interpretation & Satellite Field Exploration

Room B 
16.25 – 18.05

Chairmen: Hany Dahy, EGPC - Wanis El Ruemi, eni Libya

SAT _01
Satellite Field Exploration
Assia Guenifi, Sonatrach

SAT _02
The Hydrocarbon Potential of Hamra Quartzites Reservoir around Hassi Messoud and Oued Mya Basin
Walid Gahlouz, Sonatrach Exploration Division

SAT _03
Uncertainty Analysis in Seismic Velocity Estimation. A case history from West Africa
Clara Andreozetti, Giulia Manuela Capponi, Mauro della Martera, Ruggero Bacenetti, eni E&P

SAT _04
Event Automatic Picking & Technique Tracking Seismic Horizon Using a Linear Prediction
Idir Samir, Sonatrach Exploration Division

X-Ray Computed Tomography Technology Applied to evaluate and Confirm Benefits in OBM Removal Applying Nanoemulsion as a Cement Spacer
Gianfranco Maserati, eni E&P
**TECHNICAL PROGRAMME**
**WEDNESDAY 20th MARCH**

**ROOM C**
**Gas Valorisation**

16.25 – 18.05

Chairmen: Claude Valenchon, Saipem - Simone Bertolo, Enel

**GAS_01**
Technology Innovation for Natural Gas Monetization
Stefano Rossini, Alberto Delbianco, Roberto Zennaro, eni E&P

**GAS_02**
Syncrude Production from Associated Gas: Streams Compatibility Assessment
Massimo Iovane, Sebastiano Carrera, eni E&P

**GAS_03**
How Gas Quality Affects the Compressed Natural Gas Delivery Chain
Lorena Cavazzoni, Raffaella Cristofaro, Paola Meninno
Tecnomare SpA

**GAS_04**
Qualification of an Innovative Offshore LNG Tandem Offloading System with Floating Cryogenic Hoses
Benjamin Mauries, Saipem, Vincent Lagarrigue, James Hermary, Trelleborg

**ALTERNATE**

**GAS_05A**
Storage Capacity Prospects in Italy
Liliana Panei, Antonino Caliri, Luca Forte, Ministero Sviluppo Economico

**ROOM D**
**Drilling Optimization**

16.25 – 18.05

Chairmen: Danilo Maddalena, Tecnomatico - Joachim Oppelt, Baker Hughes

**DRILOP_01**
The Combined Application of Continuous Circulation And Wellbore Strengthening Allow to Save an Expandable Liner: successful Field Test Offshore Italy
Giuseppe De Grandis, Alberto Maliardi, Angelo Ligrone, eni E&P, Franco Arpini, Ava

**DRILOP_02**
Hybrid Bit Produces Breakthrough Performance and Savings for Inland Application in Turkey
Ali Okutucu, TPAO Turkey, Maurizio Di Pasquale, Edoardo Calvaresi, Koray Gozubuyukogullari, Gianluca Guerrini, Baker Hughes

**DRILOP_03**
The New Concept for Modeling Clays: Application for Stabilizing Boreholes while Drilling Reactive Shale Formations in Oil and Gas Wells
Nadia Haddoum-Kherfellah, Drilling Division Sonatrach, Ahmed Hadjadj, Boumerdes University, Med Ameziane Taouinet, Drilling Division Sonatrach

**DRILOP_05**
Design Considerations for the Next-Generation Stimulation Vessel in Europe
A.N. Martin, Simon Austin, Alexander Glennie, Jeffrey Martinez, Stan Bradford, A.J. Leblanc, Baker Hughes

**DRILOP_06A**
Achieving Brazilian Extended Reach Drilling Records on Polvo Project with Ultra-High Torque Connection
Nathan Biddle, Devon Energy do Brasil, Luciana Osorio, Hector Arevalo, Marcelo Velho, Flores Vincent, VAM Drilling Brazil, Scott Granger, VAM Drilling France, Fabien Carrois, Vallourec & Mannesmann France
TECHNICAL PROGRAMME
THURSDAY 21st MARCH

ROOM B
Drilling Fluids
Chairmen: James Friedheim, M-I Swaco - Joe Grant, AWA

FLU_01
High Performance Drilling Fluid Application in Val d’Agri Development
Alberto Malliardi, Alberto Guarnieri, Bruno Ravagli, eni spa, Eric Van Beest, Sergiacomo Massimo, Halliburton

FLU_01
Field Lubricity Results Correlate to Improved Well Performance in High-Performance Drilling Fluid
Michael Redburn, Harry Dearing, Newpark Drilling Fluids, Fred Growcock, Oxy

ALTERNATE
FLU_03A
New Automated Lubricity Tester Evaluates Fluids Additives, Systems and Their Application
Stan E. Alford, Ken Slater, Schlumberger

ROOM B
Hydrocarbon Prospectivity of Different Basins 1
Chairmen: Nacera Meraghni, Sonatrach - Andrea Cozzi, Ieoc

HYDRO2_01
Prospective Zones for Shale Gas in Tinrhet (Illizi Basin)
Mohamed Semch Eddine Skender, Sonatrach Petroleum Engineering & Development

HYDRO2_02
Wireline Logging Including 2-Dimensional NMR and Downhole Spectroscopy Facilitates Accurate Identification of Pay and Composition of Formation Fluids in a Complex Reservoir
Chiara Cavalleri, Iliara De Santo, Marcus Donaldson, Denise Freed, Schlumberger

ALTERNATE
HYDRO2_03A
A Tool for Fast Underground Characterization for Trenchless Pipeline Construction by Horizontal Directional Drilling Technology
Wael Hamed A. Moati, Petrobel Egypt, Daniele Boiero, Laura Valentina Socco, Politecnico di Torino

ROOM C
Protecting the Community and the Environment
Chairmen: Sylvan Nothhelder, Total - Franca Mazzatorta, Shell

ENV_01
Ecological Risk Analyses in Sediments Impacted by the Oil Industry: a Multidisciplinary Approach
Marco Abbiati, Simona Maccaterri, Università di Bologna, Francesco Begoli, Francesco Piva, Univ. Politecnica delle Marche, Fulvio Onorati, ISPRA Roma, Stefano Isidori, Mabashi Mahal, Paolo Ambrosini, Saipem

ENV_02
eni Ghana Short-Term Community Investment in Effasu, Jomoro District
Francesco Manglaviti, Maame Bartels-Kodwo, eni Ghana E&P Ltd, Cristiano Facciotto, Anna Sambo, eni E&P

ENV_03
Water Management Approach in O&G

ENV_04
GHG Management: eni’s Approach
Rosanna Fusco, Renato De Filippo, Monica Musicanti, Leonardo Gelpi, eni
## TECHNICAL PROGRAMME

**THURSDAY 21st MARCH**

### ROOM D

**Deepwater Technologies**

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<td><strong>DEEP .02</strong></td>
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<td>Horizontal vs. Vertical Subsea Xmas-Trees:</td>
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<td>2000-2010 Technical and Market Assessment</td>
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<td>Andrea Pacilli, Francesco Guzzo, Gianfederico Citi, <em>eni E&amp;P</em></td>
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<td>Design Considerations for Dual Band Communications</td>
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<td>on Subsea Umbilicals</td>
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<td>Steve Simpson, James Evans, <em>GE oil &amp; Gas</em></td>
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<td>Deep and Ultra Deep Riser Concepts Allowing</td>
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<td>F. Lirola, F-R. Pionetti, C. Bruguier, L. Altmann, <em>Saipem</em></td>
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<td>Large Bore Pipeline Connection Systems for Deepwater</td>
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<td>Gas Developments</td>
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<td>Fredrik Witting, <em>Ge Oil &amp; Gas</em></td>
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### ROOM B

**Hydrocarbon Prospectivity of Different Basins, part 2**

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<td>Hydrocarbon Prospectivity and Risk Analysis of an Under-Explored,</td>
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<td>Western Kirthar Fold Belt of Pakistan</td>
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<td>Arshad Khan, Muhammad Imran, <em>eni Pakistan Limited</em>, Muhammad Iqbal,</td>
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<td>Adeel Nazeer, <em>Pakistan Petroleum Limited</em></td>
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<td><strong>HYDRO1 .02</strong></td>
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<td>Carbonate Reef Growth Vs. Siliciclastic Input in Gulf of Suez:</td>
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<td><strong>HYDRO1 .03</strong></td>
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<td>Petroleum Systems and Miocene Turbidite Leads</td>
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<td>Barbara Bosica, Peter Shiner, <em>Petroceltic Italia Srl</em></td>
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<td><strong>HYDRO1 .04</strong></td>
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<td>Exploration Approach of the South East Constantine Basin</td>
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<td>Malek Boubekeur, <em>Sonatrach</em>, Mohamed Semch Eddine Skender,</td>
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<td><em>Sonatrach Petroleum Engineering &amp; Development</em></td>
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### ALTERNATE

**DEEP .07A**

*Assessing Component and System Reliability of Offshore Structures*

M.N. Coccon, *Enginsoft fellow* - *University of Padua*,
**ROOM C**

11.05 – 12.45

Completion

Chairmen: Stefano Di Vicenzo, eni E&P - Giovanni D’Amico, Weatherford

**COMP_02**
Thermo Setting Crosslinked Polymers for Zonal Isolation
Guido De Stefano, Andrew Chew, Sashikumar Mettath, Steve Young, M-I Swaco

**COMP_03**
Open Hole Gravel Pack: From Trial to Large Scale Deployment
Coffin Maxime, Alexandre Courtier, Nenjamin Baricos, Halliburton Energy Services, Matthew McEwan, Carlos Meneses, Luis Benchimol, Jean Noël Furgier, Total E&P Angola

**COMP_05**
Effective Zonal Isolation for the Life of a Well
Karina Padilla Vela, Schlumberger, Massimo Ciancaglini, Nicola Bazzi, Marco Mascena, eni e&P, Ilker Unanue, Schlumberger

**COMP_06**
ADA3 Dir Remediation Job with Freezing Technology
Antonio Pasquale, Antonio Santangelo, Ludovico Petrilli, John S. David, eni E&P

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**ROOM D**

11.05 – 12.45

Offshore Technology

Chairmen: Paul White, GE - Giuseppe Dali, Edison

**OFFTEC_01**
Life Extension of a Fixed Offshore Platform Structure Based on Monitoring Results
Stefano Copello, RINA Services, Paolo Castelli, Edison

**OFFTEC_02**
Next Generation High Performance Casing Connector for Subsea Drilling and Production
Kevin O’Dell, Baozhi Zhu, Wangming Wu, Thomas Steen, GE Oil & Gas

**OFFTEC_03**
New Technologies for Offshore Piles Installation
Spagnoli Giovanni, Leonhard Weixler, BAUER Maschinen GmbH

**OFFTEC_04**
FSO Replacement in the Rospo Oil Field, Italy
Susanna Donà, Vincenzo Penzo, Studio Tecnico Ing. Dona, Angelo Zuffetti, Edison spa, Jacapo Morganti, Studio Associato Fabrica Progetti

**OFFTEC_05A**
Improved Integrity & Reliability for Subsea Hydraulic Multi-function Connections
Anthony Vangasse, GE oil&gas
**TECHNICAL PROGRAMME**

**THURSDAY 21st MARCH**

**ROOM B**

**Risk Evaluation and Training**

*14.30 – 16.05*

**Chairmen:** Silvano Suigi, Shell - Fernanda Panvini, Enel

**RISK_01**
The Value at Risk of Oil Barrel in a Safety Wise Perspective
Petrone Annamaria, Laura La Rosa, Erin Pavli, Eugenio Sordini, Luciano Scataglini, Francesco Dresda, eni E&P, Stefano Pellino, Paolo Cherubini, Riccardo Bandini, Tecnomare, Federco Parrella, AMEC, Michele Bonuccelli, TEA

**RISK_02**
EU Offshore Protocol Update
Liliana Panei, Mariagiavanna Montalbano, Antonino Caliri, Ministero Sviluppo Economico

**RISK_03**
Benefits of Using Dynamic Simulations and 3-D Virtual Reality for Safety
John M. Gilmore Jr., Invesys Operations Management

**RISK_05**
A Guidance Note For The Classification of Floating Offshore Gas Terminals
Marie-Françoise Renard, Bureau Veritas

**ROOM C**

**Increasing Reserves**

*14.30 – 16.05*

**Chairmen:** Leopold Bräuer, OMV – Danilo Vardanega, Schlumberger

**INCRES_01**
Well Placement & Proactive Geosteering, the Path for Adding Reserves and Increasing Productivity.
Southern Italy Carbonate Reservoir Case History

**INCRES_02**
New Logging-While-Drilling Ranging and Formation Evaluation Technique
Michael Bittar, Hsu-Hsiang Wu, Halliburton

**INCRES_03**
Experimental Investigation of Immiscible Water-Alternating Gas (WAG) in Viscous Oil
Valerio Parasiliti Parrocchetto, Martin Bartosek, Franco Masserano, eni E&P

**INCRES_04**
Polymer Viscosity in Porous Media and Near Wellbore Behaviour of a Polymer Pilot in the Matzen Field, Austria
Thomas Gumpenberger, Martin Kornberger, Marie Deckers, Torsten Clemens, OMV E&P
TECHNICAL PROGRAMME
THURSDAY 21st MARCH

ROOM D
14.30 – 16.05
Unconventional Resources 1

Chairmen: Patrick Pluen, Total - Steve Young, M-I Swaco

UNCONV1.01
Hydraulic Fracture Optimization in Unconventional Reservoirs
Pedro Saldungaray, Terry T. Palmich, CARBO Ceramics Inc.

UNCONV1.02
Shale-Gas Well Construction and Fracturing Technology and Standards Help Minimize Environmental Concerns
Ken Huggins, Halliburton, Ronald Sweatman, consultant

UNCONV1.03
Environmentally Friendly Drilling Fluids for Unconventional Shale
Steven Young, James Friedheim, M-I Swaco

UNCONV1.04
Numbers Do Not Lie, Charting for Optimization of Completion and Stimulation in Bakken Shale Horizontal Wells
Andy Sookprasong, William D. Holcomb, Justyna S. Ferraro, Chunlou Li, Baker Hughes

ALTERNATE

UNCONV 05A
Coal Seam Gas Water Treatment Facilities in Australia
Maurizio Piazzardi, Peter Crane, MWH

TECHNICAL PROGRAMME
THURSDAY 21st MARCH

ROOM B
16.25 – 18.05
Monitoring, Inspection and Operations

Chairmen: Ivan Baggi, Shell - Simonetta Sandri, eni E&P

MIO 01
Offshore Environmental Monitoring Management in Oil&Gas Activities: eni Experience on Baseline Acquisition and Operational Phases
Melania Buffagni, Carlo Alberto Cava, Luisa Pedroni, Ilaria Zappacosta, Gennaro Aiello, Giuseppe Gioia, Francesco Gasparoni, Federico Bruni, eni e&P

MIO 02
A Wireless Sensor Network for VOC Emissions Monitoring

MIO 03
Monitoring and Inspection Activities Related to Facility Integrity Management at Adriatic LNG
Carlesimo Alessandro, Carlo Mangia, Filippo Belloni, Cameron Oakley, Adriatic LNG

MIO 04
James Neophytou, Peter Stubbs, IBM, John Northover, Change PPM Ltd

ALTERNATE

MIO 05A
Pursuing HSE through Operational Excellence in Saudi Arabian Fields
Khalid I. Omairen, Mubarak A. Dhufairi, Saleh A. Ghamdi, James O. Arukhe, Karam S. Yateem, Saudi Aramco
Advanced Methodologies For Complex Reservoirs

**Chairmen: Hendrik Rohler, OMV - Ahmed Abdel Fattah, EGPC**

**ADVMET_01**
Estimation of Skin in the Interpretation of Injection Tests in Fractured Reservoirs
Francesca Verga, Dario Viberti, Eloisa Salina Borello, Cristina Serazio, Politecnico di Torino

**ADVMET_03**
Effective Utilization of Smart Oil Fields Infrastructure toward Optimal Production and Real Time Reservoir Surveillance
Fred Aminzadeh, Karam Yateem, James O. Arukhe, Kostantinos I. Zormpalas, Saudia Aramco

**ADVMET_04**
Reservoir Uncertainties Resolved Via Global Optimization Strategies Coupling SAR Interferometry and Geomechanical Modelling: The Tengiz Case Study
Pietro Teatini, F. Comola, C. Janna, A. Lavoris, M3E s.r.l, G. Gambolati, DICEA University of Padova, A. Tamburini, A. Minini, A. Ferretti, TRE S.r.l.

**ADVMET_05**
Advanced Logging Technology and Computational Methods Resulted in Confident Petrophysical Information for Successful Production Tests
Chiara Cavalleri, Schlumberger

**UNCONV2_01**
Well Optimization using a LWD Spectral Azimuthal Gamma Ray Tool in Unconventional Reservoirs
Davide di Tommaso, Rebecca Nye, Weatherford

**UNCONV2_02**
Supervised Neural Network Algorithms: A Proved Successful Methodology to Identify Unconventional Layers Opens New Potential Development Scenarios of Abu Qir Fields in the Mediterranean Sea Offshore Egypt
Marina Voggi, Silvian Pardin, Giuseppe Bellantani, Edison, Amr Labib, Aldo Costantini, Abu Qir Petroleum

**FUT1_01**
Grid and Cloud Computing in Reservoir Simulation
Michel Cancelliere, Dario Viberti, Politecnico di Torino

**FUT1_02**
Nanotechnology Application in Drilling Fluids
James Friedheim, Katherine Price, Guido De Stefano, Steven Young, M-I Swaco

**ADVMET_06A**
Permeability Structures of Fault Zones Crosscutting Tight Cretaceous Platform Carbonates (Val d’Agri, Southern Italy)
Maurizio Giorgioni, Shell E&P, Irina Korneva, Emanuele Tondi, University of Camerino, Fabrizio Agosta, University of Basilicata

**UNCONV2_03A**
Stimulation Tuning: A Technique for Shortening the Learning Curve of Developing Source Rock Reservoirs
Leon Miasaras, Jason Pitcher, Halliburton, Alexandru Dragomir, OMV - Petrom

**FUT1_03A**
Injection Water Indigenous Bacteria; Novel Electrical Energy Source in Algerian Oil Fields
Dallila Mansour, Loaidjla Adjal Farida, Sonatrach Division Laboratoires Cheikh Bakal Roouf, Sabrina Chikhi, Bounaghay Maussa, Universite M’Hamed Bougara
**TECHNICAL PROGRAMME**

**FRIDAY 22nd MARCH**

**ROOM B**

9.00 – 10.40

**HP-HT and E&P Challenges**

Chairmen: Mario Zamora, Schlumberger - Tony Martin, Baker Hughes

**HT-HP_01**
Near Balance Drilling: a Successful Application in High Pressure Well
Pietro Capurso, David Spada, Luigi Besenzoni, Marcellino Tufo, Pierantonio Caper cini, eni Ghana

**HT-HP_02**
Wireline Formation Testing in HPHT: Pressure, Sampling and Downhole Fluid Analysis in Extreme Environments
Ilaria De Santo, Saison Daungkaew, Ken Moellhoff, Schlumberger

**HT-HP_03**
Development and Application of Ultra HTHP Drilling Fluids
Emanuel Stamatakis, Guido De Stefano, Steven Young, M-I Swaco

**HT-HP_04**
An Optimized Emulsified Acid System for Extreme Temperature Applications
Pandya Nisha, Sushant Wadekar, Jucinita Cassidy, Halliburton Technology Centre

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**ROOM C**

9.00 – 10.40

**Field & Production Optimisation**

Chairmen: Fabio Cervini, Halliburton - Alberto Pelliccia, Shell

**FIELD_01**
Novel Fluid System for Efficient Downhole Placement of Water Swellable Polymers
Rajendra Kalgaonkar, Anjali Sarda, Anupom Sabhapondit, Halliburton

**FIELD_02**
A New Chemical Technique for Sand Management. eni Experience in the Adriatic Fields
Burrafato Giovanni, Giorgio Caremi, Simona Grifantini, Giuseppe Ripa, Marco Colombo, eni E&P, Sergio Giordanella, Andrew Duncan, Weatherford

**FIELD_03**
Analysis of the Main Issues Involving Multiphase Flow Meters in Safaniyah Field
Alexander Martins, Nami Alamri, Karam Yateem, Ahmed Al Mutairi, Saudi Aramco

**FIELD_04**
Integrated Production Optimization through Model-Based Decision Support and Advanced Optimization Techniques
Giorgio Viadana, Sharon Almatasem, Marco Distaso, Silvia Masi, Enrico Zio, eni E&P

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**ALTERNATE**

**FIELD_06A**
Predictive Monitoring of Critical Rotating Equipment in Val d’Agri
Piantanida Marco, Federico Cristofori, Simone Fiorita, Cristina Bottani, eni, Yanni Pappas, GE Intelligent Platforms, Nicolò Alessandro, Cosimo Piccione, eni
ROOM D

9.00 – 10.40

Technologies For The Future 2

Chairmen: Stefano Carminati, eni E&P - Francesco Verga, Politecnico di Torino

FUT2_01
Towards Automatic, Continuous and Long-Term Asset Integrity and Environmental Monitoring in Offshore Scenarios: Clean-Sea Project
Gasparoni Francesco, Mauro Favaretto, Tiberio Grasso, Tecnomare, Nora Hveding Bergsæth, Boarte Pedersen, Erik Bjornbom, eni Norge, Patrizia Broccia, Melanía Buffagni, eni E&P

FUT2_02
Resident Autonomous Underwater Vehicle Systems, A Review of Drivers, Applications, and Integration Options for the Subsea Oil and Gas Market
Furuholmen Marcus, Richard Carter, Aker Subsea AS, Alfred Hanssen, Aker Solutions MMO AS, Jan Siesjo, Saab Seaeve Ltd

FUT2_03
Structural Monitoring of Offshore Platforms by 3D Subsea Laser Profilers
Luigi De Dominicis, ENEA, A. Al Obaidi, D. McStay, SLD, G. Fornetti, M. Guarneri, M. Ferri De Collibus, M. Francucci, M. Nuvoli, ENEA

FUT2_04
Benefits of Realtime LWD Sonic Semblance Images, Case Study from the Southern North Sea
Rebecca Nye, Weatherford

TECHNICAL PROGRAMME

FRIDAY 22nd MARCH

ROOM B

11.05 – 12.45

New Logging Techniques

Chairmen: Ferdinanda Pampuri, eni E&P - Salvador F. Adorno, Schlumberger

NEWLOG_01
LWD Logs & Horizontal Wells in Complex Fractured Reservoirs: a Challenging Task for Fluid Path Detection

NEWLOG_02
Field Trials of a New Array Pulsed Neutron Formation Gas Measurement in Complex Completion
M. Borghi, G. Galli, eni E&P, Trcka Darryl, M. Guiducci, Weatherford

NEWLOG_03
Revamping the Potentiality of Thin Layered Reservoirs: a Multi-Lithological Facies Classification
Gabriele Duci, Maria Teresa Galli, Marco Pirrone, eni E&P

NEWLOG_04
Thin Layers Gas Reserves Discovery and Reduction in Adriatic Sea Through New Wireline Formation Testing Application
D. Loi, S. Mazzoni, S. Venturini, C. Baio, M. Borghi, D. Baldini, F. Italiano, eni E&P, Cantini Stefano, Schlumberger

ALTERNATE

FUT2_05A
The Condition Monitoring System for Optimal Maintenance-Possible Application on Offshore Vessels
Ambrosio Luca, Fincantieri Offshore, Luca Sebastiani, SEASTEMA, Alessandra Pescetto, CETENA

ALTERNATE

NEWLOG_05A
Improved Laterolog Resistivity Measurements Provide Real Time True Formation Resistivity and Invasion Parameters
Fabio Brambilla, B. Corley, A. Garcia, M. Maurer, Baker Hughes
**ROOM C**  
**Offshore Pipeline Integrity**  
**11.05 – 12.45**

**Chairmen:** Sagrario Sanchez, Repsol - Fabrizio Menegazzo, Tecnomare

**OPI 01**  
Advanced Pipeline Monitoring Using Multipoint Acoustic Data  
Giancarlo Bernasconi, Silvio Del Giudice, Politecnico di Milano, Giuseppe Giunta, eni Gas&Power, Riccardo Schiavon, Tecnomare

**OPI 02**  
Case study of challenging inspection of offshore gas pipeline in Black Sea  
Mick Mills, Pil Pipeline Solutions

**OPI 03**  
Corrosion Inhibition Efficiency of Oleic Acid Derivatives for Carbon  
A.M. Al-Sabagh, M.A. Migahed, Egyptian Petroleum Research Institute, H.M. Abd - El-Bary, AIAzhar University, Z.M. Mohamed, EGPC, M.R. Mishrif, M. Abd El-Raouf, Egyptian Petroleum Research Institute, B.M. Hussein, Sherait Bassam, EGAS

**OPI 04**  
Production Losses due to Flow Assurance Issues: Remediation Cleaning and Problem Prevention  
Lucilla Del Gaudio, Chiara Piseri, Andrea Barbieri, Nicola Buongiorno, Laura Biassoni, eni

**ROOM D**  
**Safety Enhancement for Facilities and Materials**  
**11.05 – 12.45**

**Chairmen:** J. Hawisa, NOC – Steve Young, M-I Swaco

**SAFENH 01**  
Case Study: Testing leak Detection System on a multi-product Pipeline Enhances Understanding of System Sensitivity and Performance  
Jonas Norinder, Paul Bos, Rocky Zhang, Siemens Industry Inc.

**SAFENH 02**  
A Real Time Software Tool for a Safe and Cost Effective Offshore Transportatin  
Angelo Ligrone, S. Simondo, B. Bergamaschi, V. De Luca, A. Pennacchio, eni

**SAFENH 03**  
Offshore Helidecks Assessment Project  
Luigi laderosa, Roberto Orsi, Angelo Ligrone, Roberto Piva, eni E&P

**SAFENH 04**  
Assessing the Safety Performance of Fireproofing Materials for Equipment Protection  
Tognoli Alessandra, Università di Bologna DICAM, Gabriele Landucci, Università di Pisa DICI, Giacomo Antoniani, Gigliola Spadoni, Valerio Cozzani, Università di Bologna DICAM

**ALTERNATE**  
**OPI 05A**  
Assessment of Bacterial Corrosion at the Gas Processing Plants  
M. Adjeb Azzedine, Sonatrach

**ALTERNATE**  
**SAFENH 05A**  
Energy Efficiency to Support Production  
Giuseppe Gorla, Marco Basile, Armando Marcelli, Chiara Sartori, Anna Realini, Tecnomare
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FRIDAY 22nd MARCH
ROOM A
09.00-10.40
SPECIAL SESSION
SOCIAL RESPONSIBILITY IN FRONTIER AND MATURE AREAS

Best practice for corporate management of social issue and regulatory compliance have evolved greatly over the last ten years. SR is definitely growing as an additional area of attention when you look at the “non-technical” risk impacting our projects, and it is now considered as a “fourth element” of HSE. SR now intersects the full life cycle of a project; its proper management helps to reduce the project risk and to promote sustainability, involving a full spectrum of stakeholder engagement ranging from Central Government to Local Communities and Civil Society more in general. Integrating SR activities into project planning and execution allows developments to be adapted to the local context and assures the Companies of having a “License to Operate”.

Access to energy: integrated e&P case histories
Giambattista Deghetto, Senior V.P. HSE, eni E&P

Proactive engagement, key to managing issues and building positive relationships across all stakeholders
Mike Watts, Fracture Stimulation Affairs, Halliburton

Support Programme for the Internationalisation of SMEs of Basilicata
Giuseppe Muscio, Stakeholder Manager, TOTAL E&P Italia SpA

Assoil School in Val d’Agri: an example of local technical promotion
Assomineraria

Waddenzee case in NL
Margriet Kuijper, SP/SD Shell Regional Manager Europe

Moderator: Davide Tabarelli, Nomisma Energia

THURSDAY 21st MARCH 2013
SALA VERDE (1ST FLOOR)
09.00-11.00 WORKSHOP
Facing the new Oil & Gas challenges: Automation Industry today is able to provide solid technologies to enable Oil Companies in improving production optimization, energy management, process control, and safe operations in conventional and unconventional Fields.

1. Empowering critical operations decisions getting more data visibility: collaboration environment from wells to decision room.
2. Production Optimization and Energy management through sophisticated modeling technologies and KPIs monitoring.
4. Safety starts from people attitude to safety: Operator Training simulators and 3D field virtualization to simulate operations in critical conditions.
5. New frontiers of shale gas: automation answers to unconventional resources and unconventional projects execution (from drill to operations).

Coordinated by ANIMP - ISA

THURSDAY 21st MARCH 2013
SALA VERDE (1ST FLOOR)
14.30-16.00 WORKSHOP
OFFSHORE SERVICE VESSELS: FEATURES, TECHNOLOGY, INNOVATION

The operations of offshore installations are deeply depending on technical offshore service vessels with characteristics and features that have to meet the continuously increasing demand of the offshore oil&gas industry. Designers, shipyards, owners of offshore service craft are committed to provide the market with highly sophisticated and performing vessels, which take into account operability under heavy conditions, featuring comfort and safety for the crew on-board, and environmental-friendly equipment. In this workshop the progress made to date in the design and operational features of new offshore service vessels will be highlighted and discussed, as well as the most recent requests from the offshore operators for the supply operations and assistance to their installations. This workshop will consist of presentations from speakers representing designers, shipyards, operators, class societies, researchers, following by a panel session that will take questions from the floor.

Speakers and Panelists
Finn Essendon, Maersk Broker K/S, (to be confirmed)
Yrij Garshol, Rolls Royce Marine
Robert Dadini, Kongsberg Maritime Srl
Mario Mattioli, Augusta Offshore SpA

Chaired by Kimon Ardavanis, SAIPEM

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OMC 2013 FLOORPLAN

THE RECORD EDITION

Last update on 10th December 2012. Please check the latest floorplan on www.omc.it/2013
SOCIAL EVENTS & GUIDED TOURS

SOCIAL EVENTS

Tuesday 19th March

20th Golf Tournament
Adriatic Golf Club of Cervia Milano Marittima.

Welcome Party
8.00 p.m. at Pala de André, OMC Venue.
A casual and friendly get together to kick off OMC 2013, offered by Ravenna Chamber of Commerce.

Wednesday 20th March

Gala Dinner
9.00 p.m. at Pala de André, OMC Venue.
Some 800 guests gather for a unique networking opportunity, enjoying a taste of local cuisine in a warm and elegant setting. Offered by eni.

Thursday 21st March

Gala Concert
8.00 pm at Basilica of Sant’Apollinare in Classe
the traditional Gala Concert by Orchestra della Magna Grecia takes place in one of the wonderful basilicas of Ravenna. Offered by Shell.

GUIDED TOURS

4 different Guided Tours of Ravenna offered by the Municipality of Ravenna to OMC participants. 4 chances to enjoy Ravenna and its beautiful treasures!

Wednesday 20th March  Welcome to Ravenna
Thursday 21st March  The adventure of mosaics
Friday, 22nd March  Tiles tales

For information and bookings please visit www.omc.it/2013 or send your request to registration@omc.it

VENUE & ACCOMMODATION

Ravenna is at the crossroad between S.S. 16 Adriatica, which runs all along the Adriatic coast, Motorway A14 (from Milan, Florence, Bologna) and Highway E45/E7, which gets directly to Rome. Ravenna can be easily reached from the A14 motorway and from the E45 road via the network of highways connecting the city.

Venue:
PALA DE ANDRÈ complex, located in Viale Europa, 1
48122 Ravenna - Italy

Pala De André is on the eastern outskirts of Ravenna, a 5 minute drive from the city centre, to which it is connected by a regular bus service.

Shuttle Service
Complimentary shuttle service is available to/from Pala de André and official OMC hotels – only if booked through Riviera Congressi. Free service at the beginning and end of the working day as well as for evening social events.

Accommodation, Airport Transfer and Shuttle Service
OMC Official Travel Agency is RIVIERA CONGRESSI.
We strongly recommend to contact them in advance to select and book your accommodation! OMC Official Travel Agency also provides transportation from Bologna International Airport.

E-mail: accommodation@omc.it
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- conference@omc.it
- exhibition@omc.it
- accommodation@omc.it

for information on the conference (programme, registration)
for information on the exhibition (space booking, visiting)
to accommodation (hotel bookings, transfers)

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