

**THURSDAY 28TH MARCH**

9.00-10.40 ROOM: A

**CHAIRPERSONS: Alberto Di Lullo - Eni S.P.A., Danilo Maddalena - Eniprogetti S.P.A.****DIGITAL OIL FIELD**

		<b>SPEAKER</b>	<b>CO-AUTHORS</b>
O_DOF/391	Well head compressor telemetry system: a new digital approach	Imbò Pasquale	Pasquale Imbò, Pasquale Cappuccio, Simone Gorini -Eni S.P.A
O_DOF/66	Development of an object-oriented framework to automate subsea pipeline design	Grevet Simon	Simon Grevet, Amandine Laye, Vincent Cocault-Duverger - Saipem SA
O_DOF/386	Challenges in implementing the digital oil field. A real-world look at data retrieval, storage and efficient utilization	Nelson Andy	Andy Nelson, Michael Konopczynski-Swellfix UK Ltd
A_DOF/341	Cybersecurity verification approach for the Oil&Gas industry	Buizza Avanzini Giovanni	Giovanni Buizza Avanzini, Andrea Spessa -DNV GL Italy S.R.L.

**THURSDAY 28TH MARCH**

9.00-10.40 ROOM: C

**CHAIRPERSONS: Ahmed S. Amer - Newpark Drilling Fluids, Ben Oudman - DNV GL****INNOVATION**

		<b>SPEAKER</b>	<b>CO-AUTHORS</b>
O_INNOV/158	Laboratory Equipment to study differential pressure sticking and drill string release mechanism	Biondi Andrea	Andrea Biondi, Riccardo Giannini, Luca Madia -Eniprogetti S.P.A., Paolo Ferrara - ENI S.P.A
O_INNOV/159	Shape memory polymer: validation of lab testing protocol for field application design – a case history	Di Pietro Mario	Hoi Yin Leung, Jason Fuxa, Mario di Pietro, Paolo Di Gianpaolo, Alessio Fusilli - Baker Hughes, a GE Company, Martin Bartosek, Luigina M.F. Sabatino, Giovanni Ferrara, Giuseppe Ripa, Giorgio Ricci Maccarini - Eni S.P.A.
O_INNOV/307	Innovative Casing Valve with RFID Activation	Poloni Roberto	Sebastiano Burrafato, Alberto Maliardi, Roberto Poloni, Claudio Molaschi, Sara Marchini, Raffaele Imbimbo-Eni S.P.A., Julmars Shaun - Toralde, Jacob A. Barela, Quentin Lhussier, Georges Taddei - Weatherford

P\_DRILL/203

Fibreglass liner in production and water injection wells: ENI experiences and feedback

Nutricato  
Giacomo

Giacomo Nutricato, Paolo Cavassi - Eni S.P.A., Neil McIntosh-Maxtube, Roberto Balistrieri - Mepeco

## THURSDAY 28TH MARCH

9.00-10.40 ROOM:D

CHAIRPERSONS: William Palozzo - DG Impianti, Elfride Covarrubias Villegas - DNV GL

### MANAGING THE ENVIRONMENTAL FOOTPRINT

		SPEAKER	CO-AUTHORS
O_FOOT/185	A new method for measuring regional seabed subsidence with sub-centimeter accuracy	Ruiz Hugo	Martha Lien, Hugo Ruiz, Martin Vatshelle - Octio Environmental Monitoring AS
O_FOOT/269	Analysis and comparison of different solutions for produced water management - LCA and biodiversity impact assessment.	Pedullà Martino	Martino Pedullà -RINA, Carlo Alberto Cova-Eni Upstream, Valeria Caia, Maurizio Florio, Marco Compagnino, Paola Rentocchini-RINA, Melania Buffagni, Elena Pavanel-Eni Upstream
O_FOOT/323	Reducing the CO2- emissions through selection of energy efficient artificial lift method	Hongkun Dong	Hongkun Dong, Helmers Per Bloch, Øyvind Reimers-One Subsea, a Schlumberger Company
O_FOOT/65	Marine Vibroseis: A reduced Environmental Footprint for Seismic Exploration	Feltham Andrew	Andrew Feltham-Total S.A., Nicholas Henderson-Shell, Mike Jenkerson-Exonmobil

## THURSDAY 28TH MARCH

9.00 -10.40 ROOM: B

CHAIRPERSONS: Dario Viberti- Politecnico di Torino, Antonella Godi - Edison

### MODELLING

		SPEAKER	CO-AUTHORS
O_MODEL/81	Horizontal Well Placement in Challenging Complex Reservoirs Using Automatic Stochastic Inversion for Multilayer Reservoir Mapping Technology	Alaaeldin Mohamed	Mohamed Alaaeldin, Mohamed Khalil-Petrobel, Eman Samir-Schlumberger, Ali Mourad-Schlumberger, Ahmed Khattab-Schlumberger.
O_MODEL/148	Robust Screening of the Development Strategy for an Undrilled Deepwater Prospect	Turri Fulvia	Fulvia Turri, Ernesto della Rossa, Fausto Brega, Pietro Colla-Eni S.P.A.,
O_MODEL/167	Flexible Integrated Asset Models for Deep Water Developments	Shoaib Muhammad	Muhammad Shoaib, Pietro Selvaggio, Alberto Cominelli, Roberto Rossi-Eni S.P.A., Pierre Amoudruz, Alan Thompson-Schlumberger
O_MODEL/396	AVO seismic inversion in hydrocarbon detection and characterisation at Simian field offshore Nile Delta	Hosny Ahmed	Ahmed Hosny Abdulfadeel-Rashpetco

**THURSDAY 28 MARCH****11.00-12.45 ROOM: B****CHAIRPERSONS: Eid Ramy - Repsol, Filippo Chinellato- Schlumberger****GEOSTEERING and LWD****SPEAKER****CO-AUTHORS**

O_GEO_LWD/233	High-resolution LWD acoustic borehole imaging in WBM and OBM	Ritzmann Nicklas	Nicklas Ritzmann, Roger Steinsiek, Stephen Dymmock, Brian Moody, Stephen Morris, Alf Oldervoll, Ingelinn Aarnes - Baker Hughes, a GE Company
O_GEO_LWD/135	Landing and geosteering in single drilling phase in Complex Gulf of Suez Reservoir using innovative combination Resistivity technologies with multiple depth of investigation with Cost Effective Solutions, Petrobel (ENI)	Khalil Mohamed	Mohamed Khalil, Mohamed Alaa-Petrobel, Aly Morad, Mohamed Saher, Eman Samir, Ahmed Khattab-Schlumberger
O_GEO_LWD/287	Long-Term Case Study of the Successful Implementation of Continuous Circulation Drilling Technology in the Mediterranean	Salicante Piervittorio	Rachel Johnson, Sebastiano Midolo, Mohab Addel Azim Sadek, Amir El Sayed, Halliburton
O_GEO_LWD/387	H2S detection while drilling: a new approach	Mascheroni Luca	Luca Mascheroni - Geolog S.R.L.
O_GEO_LWD/351	Realistic Scenario Drilling Simulation for deep and critical wells	Höhn Patrick	Patrick Höhn, Rodrigue Freifer, Joachim Oppelt - Clausthal University of Technology

**THURSDAY 28TH MARCH****11.00-12.45 ROOM:D****CHAIRPERSONS: Williamo Palozzo - DG Impianti, Fabio Lo Brutto - DNV GL****SUSTAINABILITY OF OIL&GAS ACTIVITIES****SPEAKER****CO-AUTHORS**

O_SUST/292	Modelling and monitoring gas dispersion in an Oil&Gas platform: project definition and design of a validation experiment	Gerboni Raffaella	Andrea Tortora, Anna Chiara Ugenti, Raffaella Gerboni, Alberto Moscatello, Nicolò Bono, Domenic D'Ambrosio, Gaetano Iuso - Politecnico di Torino
O_SUST/280	Fuelling regional growth: still a dream or a concrete possibility?	Urbano Giorgio	Giorgio Urbano, Elena Rocco-RINA
O_SUST/342	An innovative approach for portfolio analysis and investment decisions in the Oil and Gas industry	Montanaro Andrea	Marisa Carosio, Francesca Nava - Edison Exploration&Production S.P.A., Jean Michelez, Andrea Montanaro - Kwantis S.R.L.

O_SUST/102	Agile model for measurement of stockholders' performance in EPC companies in the context of sustainability	Serry Nader	Nader Serry-ENPPI
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**THURSDAY 28TH MARCH**

**11.00-12.45 ROOM: C**      **CHAIRPERSONS: Andrea Murineddu-Schlumberger, Ben Oudman-DNV GL**

**PATH TO DECARBONISATION**

		<b>SPEAKER</b>	<b>CO-AUTHORS</b>
O_DECARB/8	Application of wave energy converter technology to subsea power requirements and asset integrity in oil and gas field developments	Alessi Andrea	Andrea Alessi, Elisabetta Boi, Alessandro Malkowski - ENI S.P.A., Carlo Cesari, Bruno Cresci, Fabio Zanon, Giuseppe Rana, Flavio Furlan, Eliana De Marchi, Riccardo Schiavon-Eni Progetti S.P.A., Kourosh Parsa, Paul Watson - Ocean Power Technologies Inc.
O_DECARB/50	An economic approach for Carbon Capture and Storage	Elrayek Hani	Hossam Elmasry, Hani Elrayek, Esraa Osama-Petrobel
O_DECARB/382	Using Natural Gas And Solar Power in the Path of Decarbonization	Elhousieny Mahmoud	Mahmoud Elhousieny, Yasser Ebrahim, Ahmed Sabaa-Agiba Petroleum Company
A_DECARB/379	Oil companies and the transition to a low carbon future overview and opportunities	Feller Francesca	Francesca Feller - DNV GL

**THURSDAY 28TH MARCH****14.30-16.05 ROOM: B**      **CHAIRPERSONS: Mario Marchionna-Saipem, Roberto Ferrario-Eniprogetti S.P.A.****INNOVATIVE OFFSHORE DEVELOPMENT SCHEMES 2**

		<b>SPEAKER</b>	<b>CO-AUTHORS</b>
O_2/OFFSH/302	Spectrophotometrical monitoring system, integrated in an Autonomous Underwater Vehicle, for continuous heavy metal detection near offshore sites.	Periolatto Monica	Monica Periolatto, Felice Catania, Fabrizio Pirri, Luciano Scaltrito - Politecnico di Torino, Matteo Cocuzza - CNR IMEM, Sergio Ferrero- Politecnico di Torino
O_2/OFFSH/219	Use of Polyurethane Insulation Technology as an Enabler for Integrated Systems	Sala Patrizio	Patrizio Sala - Shawcor
O_2/OFFSH/255	Use of Spoolable reinforced thermoplastic Pipes for Oil and Water Transportation	Cavassi Paolo	Tiziana Cheldi, Paolo Cavassi, Marco Serricchio, Carlo Spinelli-Eni S.P.A., Giuseppe Vietina, Stefano Ballabio - Eni Zubair
O_2/OFFSH/327	Hybrid and composite risers for deep waters and aggressive reservoirs	McGeorge Dag	Dag McGeorge, Nils Sødahl, Ramin Moslemian, Torfin Hørte - DNV GL AS
O_2/OFFSH/25	Qualification of a local heating system for flowlines	Anres Stephane	Stephane Anres, Thomas Valdenaire, Raimond Hallot, Lionel Macauley-Saipem

**THURSDAY 28TH MARCH****14.30-16.05 ROOM: C**      **CHAIRPERSONS: Giuseppe Galli-Eni S.P.A., Vera Rocca-Politecnico di Torino****RESERVOIR MONITORING & SURVEILLANCE**

		<b>SPEAKER</b>	<b>CO-AUTHORS</b>
O_RM&S/184	4D gravity and seafloor subsidence surveys for cost-effective monitoring of offshore gas reservoirs	Lien Martha	Martha Lien, Hugo Ruiz, Martin Vatshelle-Octio AS
O_RM&S/157	Downhole Well Monitoring: Innovative Technologies in Challenging Environments	Garofoli Luca	Gianluca Trombin, Marco Pirrone, Sara Moriggi, Giuseppe Galli, Sara Cicione, Luca Garofoli-Eni S.P.A.
O_RM&S/90	Using High Resolution Temperature Data in Appraisal Wells to identify the Reservoir Conditions that can lead to Condensate Blockage	Hasan Rashid	Konstantinos Christou, David Fyfe-Metrol, A. Rashid Hasan-Texam A&M University
O_RM&S/288	Development of Formation Damage Diagnosis Workflow, Application on Hammam Faraun Reservoir: A Case Study, Gulf of Suez, Egypt	Radwan Ahmed	Ahmed Radwan- GUPCO/ Innsbruck University, Abdelbaset Abudeif, Mohsen Attia - Sohag University, Mohamed Mahmoud - King Fahd University of Petroleum and Minerals

**THURSDAY 28TH MARCH****14.30-16.05 ROOM: D****CHAIRPERSONS: Matteo Mistri-Shell, Renato Rota-Politecnico di Milano****GAS VALORISATION**

		<b>SPEAKER</b>	<b>CO-AUTHORS</b>
O_GAS/283	Gas Monetization Technology Mapping	Serena Alessandro	Alessandro Serena, Stefano Dallera, Ernesto Roccaro, Roberto Zennaro - Eni S.P.A.
O_GAS/308	Performances of novel technologies for the exploitation of CO2-rich natural gas reserves	De Guido Giorgia	Giorgia De Guido, Laura Annamaria Pellegrini - Politecnico di Milano
O_GAS/320	An optimized and intrinsically safe solution for LNG production and distribution in the Mediterranean area	De Paolis Tiziano	Tiziano De Paolis, Federica Fucas, Dario Giudice, Federico Mazzanti, Eric Zielinski - Saipem SpA,
O_GAS/188	Sulfur Removal on an FPSO – A Liquid Redox Process Case Study	Echt William	William Echt - Merichem Company

**THURSDAY 28TH MARCH****14.30- 16.05 ROOM: A****CHAIRPERSONS: Michael Neubert-BHGE, Ivo Colombo-Geolog International****BIG DATA ANALYTICS**

		<b>SPEAKER</b>	<b>CO-AUTHORS</b>
O_DATA/282	Next Generation Inspection (NGI): digital tools to bring value along the project value chain. Early experiences and results with Remote Inspections and Data Mining	Bucellato Dario	Dario Bucellato - DNVGL O&G UK, Fabio Maria Lo Brutto - DNVGL O&G Italy
O_DATA/385	Big Data Advanced Analytics to Forecast and Optimize Energy Efficiency in Upstream Production Plant	Loffreno Danilo	Gianmarco Rossi, Danilo Loffreno, Luca Cadei, Lorenzo Lancia, Davide Sebastiano Lupica, Dario D'Albore Stellato, Mario Vetraino, Vincenzo Michetti, Marco Carrettoni - Eni S.P.A, Francesco Carducci - The Boston Consulting Group GAMMA
O_DATA/365	Advanced Analytics to Maximize Operations Continuity and Optimize the Asset Value: The Fouling Real Example	Corneo Andrea	G. Camarda, Luca Cadei, Marco Montini, Gianmarco Rossi, P. Fier, Amalia Bianco, Andrea Corneo, Diletta Milana, Danilo Loffreno, Lorenzo Lancia, Marco Carrettoni, G. Silvestri - ENI S.P.A, Francesco Carducci, G. Sophia - The Boston Consulting Group GAMMA

O\_DATA/179

Paving the way for the next Digital Revolution: using Quantum Computer to solve optimization problems in the Energy sector

Amendola  
Alfonso

Daniele Ottaviani - Cineca, Alfonso Amendola, Stefano Carminati,  
Fabrizio Cinquini, Davide Floriello, Cinzia Tagliaferri - Eni S.P.A., Carlo  
Cavazzoni - Cineca



**THURSDAY 28TH MARCH**

16.25-18.05 ROOM: D

CHAIRPERSONS: Fabio Cervini-Halliburton, Ettore Carcione - Geolog International

**COMPLETION & WEAR**

		<b>SPEAKER</b>	<b>CO-AUTHORS</b>
O_DRILL/28	New concept for multiaxial fatigue rigs in reconstructing combined loads to investigate fatigue life of casing connections in casing drilling applications	Asgharzadeh Arash	Arash Asgharzadeh, Oscar Grijalva Meza, Michel Bannenberg, Carlos Paz, Javier Holzmann, Joachim Oppelt - ITE-TU Claushal
O_DRILL/195	Permanent installation of capillary string in 2-7/8" tubing size	Gorini Simone	Pasquale Imbò, Pasquale Cappuccio, Simone Gorini - Eni S.P.A.
O_DRILL/138	Wear, a drilling fluids discussion and case history	Redburn Michael	Michael Redburn, Matt Dixon - Newpark Fluids Systems
A_DRILL/363	Degradable balls; a successful approach towards the optimization of multistage completion operations	Amin Ahmed	Ahmed Rafaat Amin, Ahmed Samy, Ruggero Brambilla, Carlos Monteiro - Petrobel

**THURSDAY 28TH MARCH**

16.25-18.05 ROOM: B

CHAIRPERSONS: Giovanni Caprino-CETENA, Roberto Cimino-Cluster Blue Growth

**BLUE GROWTH**

		<b>SPEAKER</b>	<b>CO-AUTHORS</b>
O_BLUE/390	New pendular floater for offshore wind commercial farms	Thierry Delahaye	Thierry Delahaye, Paul Frank, Christophe Colmard, Frédéric Gentil - Saipem
O_BLUE/111	Strategy to comply with Offshore Directive No. 2013/30/EU: The Italian case	Scataglini Luciano	Luciano Scataglini, Consuelo Bandini - Eni S.P.A, Luca De Carli, Emanuele Matteucci - Eniprogetti S.P.A., Ilaria Zappacosta - Eni S.P.A.
O_BLUE/362	Mediacanes, Mediterranean hurricane eyewall winds action on offshore wind turbines	Ouakka Slimane	Slimane Ouakka - University of Bologna, Sanjay Arwade, Amber Kapoor, Matthew Lackner - University of Massachusetts, Rochelle Lunquist, Julie Worsnop - University of Colorado at Boulder, Andrew Mayers - Northeastern University
O_BLUE/316	Filling the gaps: a case study of a Red Sea coastal and marine biodiversity baseline study	Donato Marco	Marco Donato, Maurizio Florio, Marco Compagnino - RINA

**THURSDAY 28TH MARCH**

16.25-18.05 ROOM: C

CHAIRPERSONS: Maria Teresa Galli-Eni S.P.A., Ilaria De Santo-Schlumberger

**RESERVOIR CHARACTERISATION**

		<b>SPEAKER</b>	<b>CO-AUTHORS</b>
O_RC/328	Calculation of lithology specific P-wave velocity relations from sonic well logs for the Po-plain area and the northern Adriatic Sea	Benetatos Christoforos	Christoforos Benetatos , Giulia Codegone - Politecnico di Torino - Snam STOGIT, Francesco Marzano, Costanzo Peter, Francesca Verga - Politecnico di Torino
O_RC/277	Reservoir mapping with deep directional E.M. tool in slim hole. The first application in Italy on a complex carbonate reservoir	Verna Chiara	Arabella Casero, Maurizio Mele, Alessandro Bottega - ENI S.P.A Upstream&Technical Services, Chiara Verna, Rosario Catalano - EniMed S.P.A., Filippo Chinellato, Valeria Vergani, Kent Harms, Sarwa Tan, Rajan Dua, Vivek Argawal - Schlumberger
O_RC/286	Impact of hysteresis on relative permeability in hydrocarbon migration	Olivari Fabio	Fabio Olivari, Ehsan Ranaee, Monica Riva - Politecnico di Milano
O_RC/143	Permeability prediction using NMR measurements for some gas reservoirs - Nile Delta, Egypt	Zayed Samy	Samy Zayed, Andrea Leone - Belayim Petroleum Company, Abdel Moktader El Sayed, Amir Lala - Ain Shams University, Ahmed Salah - EGAS
O_RC/261	The roadmap for additional gas production in thin layered and low porosity reservoirs: multi detector pulsed neutron findings integrated with open-hole Measurements.	Borghi Massimiliano	Massimiliano Borghi, Giuseppe Galli, Marco Pirrone, Maria Elena Scelsi, Massimo Antonelli, Franco Sirtori - Eni S.P.A., Alejandro Schiuma - Weatherford

**THURSDAY 28TH MARCH**

16.25-18.05 ROOM: A

CHAIRPERSONS: Joachim Oppelt-Clausthal University, Ivo Colombo-Geolog International

**MACHINE LEARNING AND ARTIFICIAL INTELLIGENCE**

		<b>SPEAKER</b>	<b>CO-AUTHORS</b>
O_ML&AI/107	A novel machine learning-based support tool for source rock identification from biomarkers data: theory and case studies	Riva Angelo	Alfonso Amendola, Angelo Riva, Sara Camici - Eni S.P.A, Axel Turolla, Massimo Zampato - Eniprogetti S.P.A.
O_ML&AI/227	How machine learning educes intrinsic petrophysical knowledge from legacy data: a case history from a mature field	Grilli Dalila	Marco Pirrone, Maria Teresa Galli, Dalila Grilli, Luca Garofoli - Eni S.P.A.
O_ML&AI/301	Digital oil field multiphase flow prediction tool	Montini Marco	Marco Montini, Luca del Monaco, Gaetano Riccio, Marco Giuliani, Sergio Ritondale, Luca Cadei, Amalia Bianco - Eni S.P.A.
O_ML&AI/364	Prediction and prescription of operation Upset in H2S gas sweetening unit: implementation of an innovative big data analytics procedure	Lancia Lorenzo	Luca Cadei, Marco Montini, Gianmarco Rossi, Amalia Bianco, Lorenzo Lancia, Danilo Loffreno, Andrea Corneo, Diletta Milana, Marco Carrettoni, Giacomo Silvestri - Eni S.P.A.