8th ANNUAL PIPELINE INTEGRITY MANAGEMENT FORUM 2015

DoubleTree by Hilton London - Victoria, 4 - 5 FEBRUARY 2015 | LONDON, UK

EVENT INTRODUCTION
For the last 8 years Fleming Europe has successfully organized one Europe’s leading conference which focuses on crucial aspects of the management of pipeline integrity. It all started in 2008 with major onshore & offshore pipeline operators who gathered and discussed their current projects and how they overcame their major challenges and it has since become the best platform of it’s kind. Not only for vast educational networking opportunities but also for the carefully selected topics and the high level of the invited expert speakers who present their most recent projects as well as the industry’s best practices from the operators and their partners’ point of view.

We are proud to announce the upcoming Pipeline Integrity Management forum which will host its 8th year in London, UK on the 4th to 5th of February 2015 and we hope to see you there!

MICHAL KRAJCI
Fleming Europe

OUR SPEAKERS AND PANELISTS

PHIL HOPKINS
Technical Director
Penspen, UK

GERHARD KNAUF
Secretary General
EPRG, Germany

YONG BAI
President Offshore Pipeline Risers Inc.
USA

SAMIR AKEL
Network Technical Consultant
GRT GAZ, France

LEEN PRONK, Senior Advisor Asset Management /Chairman – WG Transmission Pipelines
Gasunie /Marcogaz Netherlands

AUSTINE EBEOZIEN
General Manager Operations
West African Gas Pipeline Company, Ghana

DANIELA TELEIANU
Team Leader RBI
OMV Petrom, Romania

PAUL ROOVERS
HSEQ Manager
Fluxys, Belgium

PREMYSL KUCHAR
Chief Engineer
MERO CR, a.s.

HENRY TAN
Senior Lecturer
University of Aberdeen, UK

KRISTOFER PASO
Associate Professor
NTNU, Norway

PETR KOUTNY
Head of Asset Operation
NET4GAS s.r.o., Czech Republic

ANDREAS ANTONIOU
Geotechnical Engineer
National Technical University of Athens, Greece

PRODROMOS PSARROPOULOS
Structural & Geotechnical Engineer M.Sc., Ph.D.
National Technical University of Athens, Greece

ALI SISAN
Business Development Manager
Pipelines UK & Southern Africa
DNV GL, UK

ROBBIE WILLIAMSON
Business Development Leader - Technical Advisory
DNV GL, UK

CHRISTOPH JÄGER
Project Leader Integrity Services
NDT Global, Germany

JOHAN SENTJENS
Business & Product Development Manager
Temati, Netherlands

RAFFAELE ZAFFARONI
Executive Manager
TECMA, Italy

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Pipeline Integrity SME
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Technical Advisor
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STELIOS KALIDAKIS
Lead Pipeline Engineer
Nexen, UK

PAUL ROOVERS
HSEQ Manager
Fluxys, Belgium

FLORIS VERHAGEN
Corporate Integrity Solutions Manager
ROSEN, Netherlands

KEY BENEFITS OF PARTICIPATION

- 2 workshops
  - Corrosion Under Insulation (CUI)
  - Pipeline Decommissioning & Life Extension
- 2 streams
- 20+ speakers – leading industry professionals
- 2 Panel Discussions
  - Risk Assessment - Taking Advantage of New Technology
  - Data Governance & Management
- Each One Teach One Session
  - Generation Gap Among Pipeline Experts
- Presentations of Latest Technology
- Operators Perspective on PIM
- Case Studies from Operators
- Q&A Sessions
- Gala Dinner

KEY TOPICS

- Recent Research on Pipeline Integrity Management, Inspection and Repair
- Pipeline Life Extension: Maintenance Under Limited Data Available
- Focus on Reducing CAPEX and OPEX for Pipelines Projects
- Integrity Assessment of Pipelines Affected by Channeling Corrosion
- The Challenge of Designing Pipelines Against Geohazards
- EPRG – More than 40 Year in Pipeline Research
- Competences of Pipeline Engineers
- Reverse Flows in Central Europe
- Integrity Assurance for the Cross Country Pipelines
- PIM Implementation and Proper ILI Data Input
- Experience with Risk Based Inspection
- Asset Integrity Management System
- Corrosion Management and CP

DISCOVER THE CHARMS OF LONDON WITH ALL YOUR SENSES

media partner:
A QUICK REVIEW OF 2014

30+ DIFFERENT COMPANIES

20+ DIFFERENT COUNTRIES

80% PIPELINE OPERATORS AND E&P COMPANIES

20% CONTRACTORS & SOLUTION PROVIDERS

KEY PARTICIPANTS

- AB Amber Grid
- ADCO
- AS EG Vorguteenus
- Bharat Petroleum
- Bulgartransgaz EAD
- DNV GL
- Eustream
- Fluxys
- Gasunie
- Geomagic
- Greeneres Energy Group
- Infrastructure
- Transporto Gas
- INGL
- ISAB SRL
- Marathon Oil
- Marcogaz
- MERO CZ
- Net4Gas
- Oiltanking Europe
- Ontras
- Open Grid Europe
- Pipesurvey
- International
- Plinacro
- Reffinerie Heide GmbH
- Rosen Group
- Shell
- Swiss Association Gas & Water
- TANAP
- TIGF
- Zebra Gasnetwerk
- and many more

“A QUICK Review of 2014”

80% Pipeline Operators & E&P Companies

20% Contractors & Solution Providers

30+ Different Companies

20+ Different Countries

Booking line: tel: +421 257 272 165 | fax: +421 255 644 490 | email: michal.krajci@flemingeurope.com | www.flemingeurope.com
SESSION 2A

11:00 Pipeline Life Extension: Maintenance Under Limited Data Available
- Establishing the fundamental principle for maintenance decision making by integrating industry experience with real-time inspection data and knowledge
- Bayesian network modeling for risk-based pipeline maintenance
- Case study based on Monte-Carlo simulations

HENRY TAN, Senior Lecturer, University of Aberdeen, UK

11:30 Recent Research on Pipeline Integrity Management, Inspection and Repair
- Integrity management software
- Infield liner
- Leak detection software
- External inspection of pipeline corrosion
- Deepwater repair

YONG BAI, President, Offshore Pipeline Risers (OPR) Inc., USA

12:00 The Challenge of Designing Pipelines Against Geohazards
- Definition and main types of geohazards
- Qualitative and quantitative assessment
- Impact of geohazards on pipelines
- Mitigation measures
- Monitoring schemes

ANDREAS ANTONIOU, Geotechnical Engineer, National Technical University of Athens, Greece

12:30 Q&A Session with speakers from 2A Session

SESSION 2B

11:00 CASE STUDY: Reverse Flows in Central Europe after the Ukrainian Gas Crisis in 2009
- Gas flows in Central Europe before and after 2009
- Measures
- Capacities
- Where we go?

PETR KOUTNY, Head of Asset Operation, NET4GAS s.r.o., Czech Republic

11:30 RBI Implementations
- Experience with RBI in PIM
- Risk Mitigation
- Lessons Learned

DANIELA TELEIANU, Team Leader RBI, OMV Petrom, Romania

12:00 Asset Integrity Management System
- What are the aims of Asset Integrity Management System
- Approach Based on risk coordination of integrity actions
- Development of an in-house dedicated tool optimizing the overall risk and redistributing resources on relevant integrity actions

SAMIR AKEL, Network Technical Consultant, GRT GAZ, France

12:30 Q&A Session with speakers from 2B Session

12:40 Lunch Break

14:00 Workshop: Pipeline Decommissioning
- Sharing experience from VENICE REFINERY LOGISTIC REBIRTH PROJECT
- Temporary Decommissioning, in depth cleaning and Change of Service from Crude Oil to Refined commercial Products of the entire off-shore and on-shore Pipelines and Transfer Lines of:
  - Venice San Leonardo Oil Terminal
  - the “Petroleum Island”
  - the Venice Refinery located on the main land
  - Inclusive of the preventive ILI and FFP of the main off-shore Pipelines.

RAFFAELE ZAFFARONI, Executive Manager, TECMA, Italy

15:30 Afternoon Refreshment & Networking Break

16:00 Panel Discussion: Data Governance & Management
- Importance of Big Data
- Effective Use of Data
- Data for Predictive Maintenance
- SCADA & GIS

17:00 Final Comments from the Floor & Closing Remarks

18:30 Speakers and Delegates are cordially invited to attend A GALA DINNER | host: DNV GL
9:00 Opening remarks from the Chair

ALI Sisan, Business Development Manager
Pipelines UK & Southern Africa
DNV GL, UK

9:05 KEYNOTE PRESENTATION
Focus on Reducing CAPEX and OPEX for Pipelines Projects

- Today the Oil and Gas industry biggest challenge is cost reduction and recently a number of high profile O&G field developments have been delayed
- Limiting CAPEX and OPEX for any pipeline project is becoming a global trend
- DNV GL is working with the industry to identify the main factors affecting pipeline projects costs and recently performed a survey to try to establish the burning issues impacting on these complex pipeline projects.

ALI Sisan, Business Development Manager
Pipelines UK & Southern Africa,
DNV GL, UK

9:40 Integrity Assessment of Pipelines Affected by Channeling Corrosion Based on In-Line Inspection Results

- Examples of channeling corrosion anomalies
- Comparison of results of different assessment methods for the calculation of the pipeline pressure capacity and the estimation of corrosion growth rates from consecutive ILIs
- Assessment methods and a methodology specifically designed for pipelines affected by long axial corrosion which was developed in the scope of a recent joint industry project

CHRISTOPH JÄGER, Project Leader Integrity Services
NDT Global, Germany

10:10 CASE STUDY: PIM Implementation and Proper ILI Data Input

- Comparison of the same type tool from different vendors
- Comparison of tool accuracy
- Data evaluation and interpretation
- „Border“ feature real case study
- Lessons learned

PREMYSL KUCHAR, Chief Engineer, MERO CR, a.s.

11:00 Earthquake-related Geohazards and Seismic Design of Pipelines

- Basics of geotechnical earthquake engineering
- Main types of earthquake-related geohazards
- Soil – pipeline interaction and pipeline seismic design
- Mitigation measures
- Monitoring schemes

PRODROMOS PSARROPOULOS
Structural & Geotechnical Engineer, M.Sc., Ph.D.
National Technical University of Athens, Greece

11:40 Each One Teach One Session: Generation Gap Among Pipeline Experts

- Topic will be discussed in mixed group of academia representatives and industry professionals to further understand how companies are currently dealing with generation gap
- Showcase of successful cooperation between universities and oil&gas companies
- Talent programs

KRISTOFER PASO, Associate Professor
NTNU, Norway

HENRY TAN, Senior Lecturer
University of Aberdeen, UK

12:30 Lunch Break

13:00 Who’s Well Protected, Stays Safe

- Recent developments in AM regarding pipelines
- Pro-active approach: the iceberg surpassed?
- Determining the effectiveness of protection: barrier performance indicators (bPI’S)
- External Corrosion Direct Assessment
- Asset information management

LEEN PRONK, Senior Advisor Asset Management / Chairman – WG Transmission Pipelines
Gasunie / Marcogaz, Netherlands

14:00 Integrity Assurance for the Cross Country Pipelines

- JIP & JV experience
- Overall Project Management
- Legal Consideration

AUSTINE EBEBIKOZIEN
General Manager Operations
West African Gas Pipeline Company, Ghana

14:30 Panel Discussion: Risk Assessment - Taking Advantage of New Technology

- Inspection Technology
- Equipment Degradation Monitoring Technology
- Geographic Information Systems (GIS)
- Risk Assessment Models

Moderator:
PAUL ROOVERS, HSEQ Manager
Fluxys, Belgium

15:00 Feedback Session & Closing Remarks from the Chair

ALI Sisan, Business Development Manager
Pipelines UK & Southern Africa
DNV GL, UK

Afternoon Refreshment and Networking
asset management and risk assessment. During Main activities are related to pipeline integrity, the French gas transmission operator (GRTgaz). and currently reside in Accra, Ghana. He is happily married, blessed with three children at a prestigious Petroleum institute, Nigeria. Nigeria; University of Port-Harcourt and the Business (Canada), 7 years within the French gas distribution operator (GRFgaz). Main activities are related to pipeline integrity, asset management and risk assessment. During the last three years, in charge of GRTgaz Policy on pipeline inspection/rehabilitation/replacement.

**SAMIR AKEL**
Network Technical Consultant GRT Gaz, France

Almost 25 years experience in the field of Gas Industry : 8 years of R&D in gas distribution and transmission, 2 years in Gaz de France International Business (Canada), 7 years within the French gas distribution operator (GRFgaz). Main activities are related to pipeline integrity, asset management and risk assessment. During the last three years, in charge of GRTgaz Policy on pipeline inspection/rehabilitation/replacement.

**ANDREAS ANTONIOU**
Geotechnical Engineer National Technical University of Athens, Greece

Dr. Antoniou is a Civil Engineer specializing in the field of Geotechnical Engineering for more than 20 years. His Ph.D. in the scientific area of geotechnical applications of Geographic Information Systems (GIS) and received from National Technical University of Athens, Greece, while currently he is a Research Associate in the School of Civil Engineering, Geotechnical Department at the same university. He is also an adjunct Professor of Geotechnical engineering at the Greek Military Academy of Engineers. He has executed numerous studies on: (a) the design of foundation of buildings, industrial facilities, bridges, wind turbines, solar plants, (b) slope stability and rockfall assessment, and (c) ground seismic response. He has been involved as a member of the experts’ team in (a) the evaluation regarding engineering geological aspects of the behavior of tunnel boring machine (TBM) used at the Athens Metropolitan Railway, and (b) the quantitative geohazard assessment and design of Trans Adriatic Pipeline (TAP).

**AUSTINE EBEKOZIEN**
General Manager Operations West African Gas Pipeline Company

Mr. Austine Ebezkoin has over 28 years’ experience in various aspects of Natural Gas Pipeline Operations, Maintenance and Management. Prior to his appointment as General Manager, West African Gas Pipeline Company, Ghana, where he coordinates the entire operations activities of the over 600KM cross country gas transmission pipeline from Nigeria through Benin, Togo to Ghana, he was Head, Eastern Operations, Nigerian Gas Company, Nigeria. He championed the development of Operations Excellence Management System in Nigerian Gas Company, he also held key position amongst which are Operations Superintendent, Head of Asset Integrity team, and Deputy Manager, Engineering and Construction. As a visionary Project Manager, he executed and commissioned several high profile projects in Nigeria and Ghana. Amongst these the 56KM X 24” Extravus – Lagos gas pipeline expansion, EPC of 24” X 35KM Gas supply to Abeokuta city gate and distribution to industries, Alaoji gas pipeline system; Gas supply to Ibinom power; re-commissioning of West African Gas Pipeline, 20” X 598km projects etc. Austine is a graduate of University of Lagos, Nigeria; University of Port-Harcourt and the prestigious Petroleum Institute, Nigeria. He is happily married, blessed with three children and currently reside in Accra, Ghana.

**PHIL HOPKINS**
Technical Director Penspen, UK

Dr Phil Hopkins is the Technical Director of the pipeline engineering company Penspen Limited. Penspen is a 1,000-employee company with its headquarters in Richmond, UK, supported by a number of international offices. He was previously the Managing Director of the pipeline engineering consultants, Andrew Palmer and Associates. Phil has been involved with engineering consultancy and research, and expert witness work for over 30 years, and is the author of over 100 publications of these topics. He’s also very active in teaching, where he was formed in teaching on, at and as a Professorial Fellow at Newcastle University, UK, and continues to teach on Masters programmes at both Newcastle University, and Northumbria University, UK.

**CHRISTOPH JAGER**
Project Leader Integrity Services NDT Global, Germany

Dr. Christoph Jager is Project Leader Integrity Services at NDT Global. He has a profound experience in fitness-for-purpose assessment, concerning the immediate and future pipeline integrity. The analysis of corrosion and crack-like anomalies is his particular focus in his daily work. Christoph Jäger holds a Ph.D. in geophysics from Karlsruhe University, Germany. Before joining NDT in 2006, he worked as application engineer in the field of surface metrology.

**PETR KOUTNY**
Head of Asset Operation NET4GAS s.r.o., Czech Republic

09/1995 - 03/1998 - 1&c Enegro Ltd., Dukovany Nuclear Power Plant, Instrumentation and Controls Engineer

04/1998 - 12/2004 - Transgas Company, later RWE Transgas Company, Control Systems Engineer of Compressor Station Králik nad Oslavou

01/2005 - 04/2009 - RWE Transgas Net Ltd., Senior Manager of Regional Network Operation MERO

Since 05/2009 - NET4GAS, Ltd., Head of Asset Operation

Additional professional information:
Chairman of NET4GAS Emergency Committee
Member of Risk Management Committee
Company Proxy

**CHRISTOPH JÄGER**
Project Leader Integrity Services NDT Global, Germany

Dr. Christoph Jäger holds a Ph.D. in geophysics from National Technical University, Greece. From 1997 to 1999, Dr. Jäger was a Post-doctoral Fellow at Norwegian University of Science and Technology (NTNU), Trondheim, Norway. After obtaining his Ph.D., Dr. Jäger worked as a Post-doctoral Researcher at Schlumberger-Doll Research, Post-Doc December 2005 - May 2006. He is currently a Research Associate Professor at the University of Michigan, working on the application of novel technologies for monitoring and managing gas pipeline integrity.

**PETR KOUTNY**
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Chairman of NET4GAS Emergency Committee
Member of Risk Management Committee
Company Proxy

**PRODROMOS PSARROPOULOS**
Structural & Geotechnical Engineer M.Sc., Ph.D. National Technical University of Athens, Greece

Dr. Psaropoulos is a Structural and Geotechnical Engineer with a balanced scientific and professional experience in the analysis and design of various structures and geotechnical structures during the last 20 years. After receiving his Ph.D. on Geotechnical Earthquake Engineering from National Technical University of Athens (NTUA), Greece, he conducted advance research in various universities and institutes in Greece and Italy, while he has been an adjunct Associate Professor of Geophysics and Earthquake Engineering in the Department of Infrastructure Engineering of the Hellenic Air-Force Academy (top military university in Greece). In parallel, he has been involved (as a consultant engineer) in the design and construction of various challenging engineering projects in Greece and abroad. His expertise is on Geotechnics, Soil Dynamics and Earthquake Engineering, including mainly: (a) problems of static and dynamic soil-structure-interaction (such as foundations, retaining structures, pipelines, etc.), (b) static and seismic stability assessment of slopes and

**GERHARD KNAUF**
Secretary General EPRG, Germany

Dr. Gerhard Knauf graduated in Physics at the University of Aachen, Germany, in 1977. From 1977 to 1982 he worked in the field of the applicability of elastic - plastic fracture mechanics at the Max Planck Institute for Steel Research, Düsseldorf, Germany. He took a position in the research department of Westinghouse (USA) at the University in Aachen in 1982. In 1982 he joined the Salzgitter Mannesmann Forschung GmbH, “SMF”, in Duisburg, Germany. In 1997 he became Head of the Division, “Mechanical Engineering” and is responsible for the areas of materials and component testing, fracture mechanics, failure analysis, and safety of structures and pipelines. After working for several years on technical committees of the European Pipeline Research Group (EPRG), he was elected the Secretary General of the EPRG in 1997.

**KIRSTOFFER PASO**
Associate Professor NTNU, Norway

Present position: Associate Professor, Department of Chemical Engineering, Norwegian University of Science and Technology (NTNU), Trondheim, Norway Education: Bachelor of Science cum laude, Chemical Engineering, University of Minnesota, 2000 Ph.D., Paraffin Gelation and Kinetics, Chemical Engineering, University of Michigan 2005 Work experience: Schlumberger-Doll Research, Post-Doc December 2005 - May 2006. Gas Chromatography Analysis and Instrumental Development
embankments, and (c) numerical simulation of dynamic soil response (i.e. local site effects and microzonation studies). Dr. Psarropoulos is currently teaching Geotechnical Engineering in the School of Rural and Surveying Engineering of NTUA, while he has been a leader of the experts’ team for the quantitative geohazard assessment and the seismic design of some major high-pressure gas pipelines in south-east Europe (such as IGI-Poseidon and TAP).

PAUL ROOVERS
HSEQ Manager
Fluxys, Belgium

Paul Roovers is a chemical engineer who joined Fluxys in 1991. In the company he has successively been involved in the prorogation of transmission and distribution activities and prequalification of manufacturers. At the moment he is part of the HSEQ department where he is responsible for the Pipeline Integrity Management System and integrity issues detected by ILI. At the moment he is acting assistant secretary general of the EPRG. He is further involved in standardization activities in CEN for gas transmission in general and SMS PIMS in particular.

JOHAN SENTJENS
Business & Product Development Manager
Temati, Netherlands

Johan Sentjens (1964) has 20 years of experience within the industrial technical insulation market and has worked for several major insulation manufacturers. He has a bachelor degree in mechanical engineering and holds degrees in corrosion control and maintenance management. Furthermore he is member of the CINI cyrogenic insulation committee and is NACE CIP level. Over the years he has developed a expertise in Corrosion Under Insulation (CUI).

Since 2006 he works for Temati as business & product development manager. Besides a commercial responsibility for the CUI product range he also shares know-how with major international stakes holders like asset-owners and engineers.

One of his statements is: “CUI is an organisation issue” and sharing know-how in order to create an awareness process is in his believe a key issue to develop mitigations strategies for controlling CUI. Johan Sentjens has held numerous lectures on CUI e.g. EFC (European Federation for Corrosion), UK CUI Forum, FEI and EEPC. And he also is a host teacher at the University of Applied Science (Hoge School) Utrecht.

ALI SISOON
Business Development Manager
Pipelines UK & Southern Africa
DNV GL, UK

Ali Sisan leads Business Development Pipeline activities in the DNV GL Region UK & Southern Africa. He has managerial experience of leading pipeline & subsea teams in the London Approval Centre and London Solutions Department. Ali is a Principal Engineer (Chartered Engineer) with a PhD in Fracture Mechanics, has published more than thirty five technical articles and has chaired a number of technical sessions and workshops at international conferences.

HENRY TAN
Senior Lecturer
University of Aberdeen, UK

Dr. Tan is a Senior Lecturer in Safety & Reliability Engineering, and Subsea Engineering, of the School of Engineering, University of Aberdeen. He is the Founding Editor of the Journal of Energy Challenges and Mechanics, and the Chairman of the 1st, 2nd, 3rd and 4th International Symposium on Energy Challenges and Mechanics. He was a Guest Professor of the School of Aeronautics and Astronautics, Zhejiang University, China (2008-2012); a Lecturer of the School of Mechanical, Aerospace and Civil Engineering, University of Manchester, England (2007-2009); a Research Scientist of the Department of Mechanical Science and Engineering, University of Illinois at Urbana-Champaign, USA (2003-2007); a Guest Professor of the School of Mechanical Science and Engineering, Huazhong University of Science and Technology, China (2004-2006); a Visiting Assistant Professor of the Department of Mechanical Engineering, Louisiana State University, USA (2001-2002); and a Research Assistant Professor of the Department of Materials Science and Engineering, University of Utah, USA (2000-2001).

ROBBIE WILLIAMSON
Business Development Leader - Technical Advisory
DNV GL, UK

Robbie is a Chartered Engineer and Fellow of the Institute of Marine Engineering, Science and Technology (MIMarEST). He has 32 years’ experience working with pipelines both onshore and offshore during which time he has accumulated 7 years of international experience working in the Middle East, Norway the Caribbean and extensively throughout South East Asia. His experience has been gained within the areas of pipeline construction, installation, testing and commissioning, repair as well as inspection supported by technical integrity assessment. During his time spent in South East Asia Robbie worked closely with the PETRONAS Research and Scientific Services facility in Kuala Lumpur and was responsible for the development and implementation of the Risk Based Inspection (RBI) program. Robbie has spent the last 11 years working in Aberdeen and during this time has taken the role of Project Sponsor, Project Manager and Technical Specialist for several Technology Qualification and Verification projects covering Onshore, Offshore deep and Ultra deep water applications. He is currently studying for an Engineering Doctorate at Kings College, University of Aberdeen.

Dr. BAI YONG
Offshore Pipeline & Risers Inc., China
President

Founder and CEO of OPR, Engineering Harroffessor (2001) and doctoral tutor of Zhejiang University, invited experts of China’s “Thousand Talents Program”.• Published more than 100 papers, as well as 5 academic monographs in English and 2 in Chinese. • Brought forth the design theory of deepwater offshore pipeline buckling and ultimate bearing capability, fundamentally improved the design and analysis method, along with the allowable standards of offshore pipelines design, reached the international advanced level and have been widely used in engineering practice, enjoying a high reputation in the industry. • Presided over dozens of projects concerning large ship structure, pipelines / risers, offshore platform structure design, analysis and risk assessment. • Worked at various internationally renowned companies such as DNV, ABS, JP Kenny, Shell and MSC for more than 30 years, which enriching himself with valuable experience in engineering practice and project management ability. • Published three works “Pipeline & Risers” (2001), “Subsea Pipelines and Risers” (2005) and “Subsea Pipelines and Risers” (2005) and founded the basic theory and structural analysis method for the design of pipelines and risers. • Compiled five design guidebooks, incorporating DNV pipeline design criteria into Chinese standard. Developed a software system suitable for integrity management of subsea pipelines and risers for Petronas.

RAFFAELE ZAFFARONI
Executive Manager
TECMa, Italy

Raffaele Zaffaroni Executive manager of TECMA, based in Milan, has over 18 years experience in pipeline maintenance, pre-commissioning, cleaning, inspection and repair. After obtaining his bachelor’s degree in Nuclear Engineering and a master in business management; Raffaele started in a international US company in 1986 for chemical & additives for boiler, cooling tower and waste treatment. Since 1997 he is in Tecma first as in field technician and following as sales manager. The achieved operational experience served in developing a remarkable position in servicing the Italian and EMEA Pipeline industry in partnership with excellence technology partners and building up a broad experience in platforms and production field operations including the following countries (Croatia, Kuwait and R. du Congo).