



الهيئة الوطنية للنفط والغاز  
NATIONAL OIL & GAS AUTHORITY

Under the patronage of  
**H.E. Dr. Abdul Hussain bin Ali Mirza**  
The Minister of Oil and Gas Affairs & Chairman  
of the National Oil & Gas Authority (NOGA)  
Kingdom of Bahrain



Keynote Speaker  
**Mr. Isam A. Al-Bayat**  
Vice President,  
Engineering Services,  
Saudi Aramco

# 5<sup>th</sup> Middle East Nondestructive Testing Conference & Exhibition 2009

November 8 - 11, 2009

Gulf International Convention Centre, Gulf Hotel, Kingdom of Bahrain

**“Leading Towards  
Innovative Solutions”**



SAUDI ARABIAN SECTION OF  
THE AMERICAN SOCIETY FOR  
NONDESTRUCTIVE TESTING

Organised by



جمعية المهندسين البحرينية  
THE BAHRAIN SOCIETY OF ENGINEERS



# Welcome to 5 MENDT



**Fathi Al-Qadeeb**  
Conference Chairman

Please join us at the fifth Middle East Nondestructive Testing Conference to be held in Bahrain in November 2009. This year's conference looks to be the largest yet, and our organizers have put together an outstanding program covering NDT and Inspection related issues of great relevance to the Gulf region. Our sessions include NDT methods and techniques, certification and management issues, inspection of inaccessible areas along with new digital techniques.

We will have twelve pre-conference workshops and will host ASNT Level III examinations on the Saturday and Sunday before the conference. The conference should provide something for the NDT technician, Inspection Engineer, or anyone involved with maintaining integrity of a facility. Our exhibition will provide access to a world class selection of NDT vendors during the conference duration. The role of specialized and advanced NDT has become magnified along with the importance of personnel certification schemes in maintaining assurance of quality.

I welcome all to this growing and important event in the world of nondestructive testing.

## Key Points

### Reasons why you should attend this Conference.

- Connect with experts and colleagues from around the world and share the latest developments in nondestructive testing technologies.
- Interact with global players and gain extensive knowledge on various NDT Issue.
- Find solutions to the latest NDT challenges.
- Benefits from quality training courses
- View an exhibition displaying the latest equipment and services supporting NDT field.
- Increase your awareness about modern NDT technologies used in Oil & Gas production, Petrochemical, Power Generation and Manufacturing Industries.
- Meet with exhibitors displaying their latest state-of-the-art NDT equipment and services.
- Interact with NDT Practitioners, Researchers, Developers, Providers and Users.
- Enhance your engineering skills to ensure better safety & reliability for your plant facilities.





## Dr. R. Bruce Thompson

Dr. R. Bruce Thompson is the Director of the Center for Nondestructive Evaluation and a Distinguished Professor in the Department of Materials Science & Engineering and in the Department of Aerospace Engineering at Iowa State University. He received his B.A. in Physics from Rice University (1964), his M.S. in Physics from Stanford University (1965) and his Ph.D. in Applied Physics from Stanford University (1971). From 1970 to 1980 he served as a member of the technical staff and Group Leader of Ultrasonic Applications at the Rockwell International Center before coming to Iowa State University. Dr. Thompson's research interests fall in the area of ultrasonic nondestructive evaluation, including noncontact sensors, microstructure characterization, measurement models, and model-assisted determination of probability of detection. Dr. Thompson is the author of 6 major invited review articles, over 90 articles in archival journals and over 250 papers in edited conference proceedings. He has been awarded 23 U.S. patents, presently serves as the Editor-in-Chief of the Journal of Nondestructive Evaluation, and is a member of the National Academy of Engineering.



## James C. Kennedy

Mr. Kennedy graduated from Yale University in Physics in 1963 and received a Masters Degree in Physics from the University of Washington in 1966. He has worked for The Boeing Company in nondestructive testing for 42 years, and is currently a Technical Fellow in the Material & Process Technology organization. His technical experience in nondestructive testing has involved the application of ultrasonics, eddy current and radiography to military and commercial aircraft and marine structures. Mr. Kennedy led development of inspection criteria and ultrasonic inspection systems for the 777 composite tail section. He has 9 nine patents in NDE many in the area of composite inspection. He is currently supporting ultrasonic composite inspection for the new Boeing 787 aircraft. R. Bruce Thompson



## Marwan F. Basrawi

Mr. Marwan Basrawi is a member of the ASNT Board of directors and the founding Director of ASNT Region 19 (Middle East). He is also the founding chairman of ASNT's Saudi Arabian Section (SAS). He continues to lead the establishment of organized and credible NDT in the region through NDT training, certification, conferencing and active ASNT sections. There are currently four ASNT Sections in the Middle East: SAS, Turkey, UAE and the Egyptian Sphinx, of which the first two are already in this year's top 15 most active sections of ASNT.



## Charles J. Hellier

Mr. Hellier has over 45 years of experience in Nondestructive testing, Quality Assurance and Inspection. He is a past President of ASNT Level III certificate in five NDT methods. He is a Fellow of ASNT and also is involved with the Nondestructive Testing Management Association (NDTMA). Chuck also holds membership in ASME, ASTM, AWS, ASM and ABFE (Fellow).



## Scott D. Miller

Mr. Miller has over 32 years of experience in Nondestructive Testing, Quality Assurance and Inspection. He is a past Chairman of the Saudi Arabian section of ASNT and was the Technical Chairman for the past four Middle East NDT conferences. He holds an ASNT Level III certificate in eight NDT methods, is a Fellow of ASNT and also won the ASNT Mentoring Award in 2006. Scott worked for Saudi Aramco for 11 years as the Inspection Department Technology Coordinator and was also the Saudi Aramco Head Level III and Chairman of the NDT Standards Committee.



## Training, Certification and Qualification

Title	Author
Simulation of NDT techniques for Assessment of Inspection Performance	Philippe BENOIST, CEA/LIST
Outcome Assessment Process for NDT Training	Mohammed Salman Abdul Gaffar, Hafraal Batin Community College
NDT Training Programs at JIC, Saudi Arabia, Present Status and Future Plan	Fouad Attar, Jubail Industrial College
Training of Industrial Radiographers for Radiation	Falah Abu-Jarad, Saudi Pioneers for Specialized Services (SPSS)
Innovative NDE Training, Simulation, and Performance Improvement Technologies and Applications	Glenn Light, Southwest Research Institute

## Risk Based Inspection & Fitness for Services

Title	Author
Risk Based Inspection (RBI) and Fitness for Service (FFS) Assessment	Vijay V. Vesvikar, Al-Tamimi Industrial Service Establishment
AUT and Risk-based inspection	Michael Moles, Olympus NDT Canada
What is RBI Best-Practice and How to Implement it Successfully	Ron Selva, PP SIMTECH Solutions Ltd
Enhanced FFS Analysis for Remaining Life Predictions and Lifetime Management of High Value Isomax Reactors	Mehdi Moeini, Tubi Tak Consulting Eng. & Inspection Co
Integrity Management of Buried & aboveground, non-pigable pipeline using new NDT methodologies & Risk Based Inspection	Shervin Maleki, TWI
Total Asset Integrity Management of static equipment of Plant From Design to Decommissioning	Ron Selva, PP SIMTECH Solutions Ltd
Continuous Monitoring for Asset Integrity Management	Phillip Cole, Physical Acoustics Limited
Pigging the "UNPIGGABLE": New Technology enables in line inspection and analysis for Non-traditional pipelines	Stefan Papenfuss, Quest Integrity Group, Pipelines Div.

## Advanced Ultrasonics I

Title	Author
Use of permanent mounted UT sensors for corrosion monitoring and asset integrity	Hanley Thomas, GE EntSol
Phased Array inspection of small diameter piping	Philippe Cyr, Eclipse Scientific, inc.
Advanced Ultrasonic to Resolved Inspection Challenges	Mohammed A. Abufour, Saudi Aramco
Applications of NDT ultrasonic array techniques	Philippe BENOIST, CEA/LIST
Sizing and Characterisation of indications ( planar /volumetric ) in Phased Array technique and TOFD	Giuseppe Nardoni, I&T Nardoni
Evaluation of HTHA Effect on C-0.5MO Material Using Various NDE Techniques for Reformer Waste Heat Gas Exchanger in Hydrogen Unit of Mina Abdulla Refinery	Mefleh Al-Otaibi, Kuwait National Petroleum Co.
Advanced NDT on Capital Projects	Jim Carswell, Saudi Aramco
Practical Challenges during High Temperature Ultrasonic Scanning	P. Sukumaran, Equate Petrochemical Co., Kuwait
Phased Array Ultrasonic Detection & Sizing of In-Service Cracks in Heavy Walled Reactor Nozzles - Part 1	Chris Chartier, Advanced NDE Services, Eastern Division, Acuren Group Inc

## Advanced Ultrasonics II

Title	Author
Lean Fabrication utilizing UT in lieu of RT	James Costain, GE EntSol
High Temperature Phased Array Inspection	Brent Zeller, Eclipse Scientific, inc.
Portable PA for thickness measurements	Michael Moles, Olympus NDT Canada
The Use of Ultrasonic Inspections at Elevated Temperature	Ramzi Beidas, Sonovation M.E.
Replacement of X-Ray via semi-automated phased array ultrasonics	Neile Findlay, UT Quality
Applications of Automated Ultrasonics on New Projects	Isa Mudaibegh, Saudi Aramco
An Under Utilized Emerging Inspection Technology -TOFD	Abdul Nasser, Saudikayan Petrochemical Company (SABIC)
Implementation of Phased Array method for monitoring of degradation of the materials of hydrocracking pipelines.	Marcin Wielgat, Warsaw University of Technology
Phased Array Ultrasonic Detection & Sizing of In-Service Cracks in Heavy Walled Reactor Nozzles - Part 2	Chris Chartier, Advanced NDE Services, Eastern Division, Acuren Group Inc

## Long Range Guided Wave

Title	Author
The Application of Guided Waves for Screening of Concrete Anchors	Reyaz Sabet-Sharghi, IESCO Inc.
New Magnetostrictive Sensor Technology Applications	Glenn Light, Southwest Research Institute
In Process Application of Ultrasonic Guided Waves in Evaluation of Piping defects under coating	Saeed Izadpanah, Petroleum University of Technology
Propagation of Guided Waves in a Hollow Circular Cylinder Application to Non Destructive Testing	Faiza Boukazouha, Welding Control Center
Guided Wave Ultrasonic Inspection for Road Crossing Pipelines	Nayef Al-Enezi, Kuwait National Petroleum Company (KNPC)



Structural Health Monitoring using a Wireless, Multi-sensor Magnetostrictive Sensor Technology	Glenn Light, Southwest Research Institute
Guided wave, the theory, the practice and the restrictions experienced by Ras Tanura Refinery	Abdulrahman Alfaqeeh, Saudi Aramco (RTR)

### Boiler & Heat Exchanger Methods

Title	Author
RFT - Remote Field Technique and Guided waves in corrosion evaluation in ferritic steel pipes , boiler tube etc.	Giuseppe Nardoni, I&T Nardoni
Boiler and Heat Exchanger Inspection Methods	Andreas Boenisch, Innospection Ltd.
Compensating for Variations in Material Properties in Remote Field Testing of Heat Exchanger and Boiler Tubes	Ankit Vajpayee, Russell N.D.E. Systems Inc.
Steam side scale exfoliation problem in Qurayyah Power Plant / Boiler Superheater and Reheater	Mohammed S. Saleem, Saudi Electricity Company
Measuring Oxide Scale Thickness on the Inner Surface of a Boiler Tube using Advanced Ultrasonic Method	Ahmed Yamani, KFUPM

### Inspection of Unscrapable Pipelines

Title	Author
NDT Technologies for Non-Pigable Pipelines	Andreas Boenisch, Innospection Ltd.
Small diameter pipe inspections	Michael Moles, Olympus NDT Canada
Advanced Assessment of Pipeline Integrity using ILI Data	Ted L. Anderson, Quest Integrity Group, LLC
Non-Intrusive Examination of Soil to Air Interface Areas and Concrete Penetrations of Inaccessible Regions of Piping Systems	Mark Adams, Spectrum Sales & Services LLC
Utilizing Ultrasonic In-Line Inspection Technology (InVista) and Fitness-For-Service Assessment (LifeQuest) for non-traditional pipeline inspection applications	Stefan Papenfuss, Quest Pipeline Resources Group
Combining Both Ultrasonic Intelligent Pigging Inspection and Customized Remaining Life Assessment Software Minimizes Chance of Failure, while Maximizing Reliability in Fired Heater Serpentine Process Coils	Rich Roberts, Quest Integrity Group
Non-Intrusive Examination of Pipe Support Contact Areas of Piping Systems	Mark Adams, Spectrum Sales & Services LLC

### General NDT I

Title	Author
High Precision Ultrasonic Monitoring	Glenn Light, Southwest Research Institute
Non destructive testing of oil conduits	Sougrati Belattar, Chouaib Doukkali University
Eddy Current Methodology to Detect Corrosion Pitting of Gas Turbines Axial Compressors	Fabio CESCHINI Giuseppe, Global Services
NDT for Upstream and Drilling	Andreas Boenisch, Innospection Ltd.
Increase in Reliability of Automated Ultrasonic Inspection Procedures	Ramzi Beidas, Sonovation M.E.
UT presentation	Marek Andr, Starmans Electronics Ltd.
Calculation of the critical stress responsible for lamellar tearing in microalloyed S355N steel	Arezoo Abyazi, Saland University of Technology, Iran
Characterization of inclusions causing lamellar tearing in S355N	Arezoo Abyazi, Saland University of Technology, Iran
Constraint Analysis in the Titanium and Aluminium by Eddy Current Method	M. Zergoug, Algeria

### General NDT II

Title	Author
Modeling the Radiation Field of Normal-Beam Ultrasonic Transducers by Multi-Gaussian Beam Technique	Farhang Honarvar, K. N. Toosi University of Technology
Nondestructive Testing Role in Cost Reduction and Prevention of Possible Integrity Damages of Casting Turbine Parts for Power Plants.	Mehrshad Sanami, MAPNA Turbine Engineering and Manufacturing Company
Industrial Radiography, Yes it is safe	Thomas Scales, Saudi Aramco
Hardness prediction of steel alloys based on temperature distribution during laser welding	Esam Hamza, Al Fatah University, Tripoli, Libya
Reliability of Nondestructive Tests-Practical Experience	Dr. Osama M. Shawa, Entechs
Ultrasonic Wave Interactions with Periodic Arrays of Surface Defects	M. A. Hawwa, KFUPM
The lamellar tearing susceptibility evaluation standards on diagonal to lower Junction of Uremia Bridge's arc	Arezoo Abyazi, Saland University of Technology, Iran
Evaluation of lamellar tearing in Uremia Bridge's arc	Arezoo Abyazi, Saland University of Technology, Iran
Comparing the Heat Affected Zone of Submerged Arc and Shield Metal Arc Welded Microalloyed S355N Steel	Arezoo Abyazi, Saland University of Technology, Iran
Flaw detection and thin materials thickness measurement using time frequency, CLEAN algorithm and high resolution algorithms	DRAI Redouane, Algeria



## Plant & Equipment

Title	Author
Determination of Liquid Volume Fraction in Two Phase Flow by fast Neutron Attenuation Method	Tariq Abufaraj, King Abdulaziz University
High Speed Ultrasonic Corrosion Mapping System for Large Diameter Carbon-Steel Lines and Vessels	Phillip Cole, Physical Acoustics Limited
On Stream Inspection and Structural Integrity Assessment of Atmospheric Storage Tanks	Athanasios Anastasopoulos, Envirocoustics
Inspection of above ground storage tanks annular plates using short range guided waves	Adel Abbas, Saudi Aramco
Acoustic Emission Application Case Histories in the Oil, Chemical and Gas Industries	Phillip Cole, Physical Acoustics Limited
Techniques for Improving Conventional Industrial Radiography Image Quality	Thomas Scales, Saudi Aramco

## Innovative Computerized NDT Applications

Title	Author
Self-Contained Inspection Systems for Trunk Gas Pipelines	Furquan Ali, FMQ
3D Microanalysis of Geological samples with NANOFOCUS Computed Tomography	Jens Lubbehusen, GE Entsol
Accuracy of wall thickness measurement using computed radiography	Binu Rajendaren, GE Entsol
Optimistic Approach to control Arc Stability in Unconsolidated Sands by Downhole Emulsification	Saad El-Din M. Desouky, Egyptian Petroleum Research Institute
Signal Processing Methods for materials defects detection	Toufik Bouden, Laboratoire des Essais Non Destructifs, NDT
Accurate defect sizing using DSP	Michael Moles, Olympus NDT Canada
Latest improvements in ACFM Technique	Martin Lugg, TSC Inspection Systems
Why InTank® Robotics Saves Money & Increases Throughput Capacity?	Gary Penney, and Dr. Ahmed Yamani, KFUPM
Full Automatic Nondestructive Testing of Pipelines	Houman Jafari, Xinray Systems LLC
Corrosion Under Insulation Measured by Gamma Backscattering Technique of Liquid-Gas Mokeup Pipe	Samir Abdul-Majid, King Abdulaziz University
Engineering Approach to Control Corrosion Under Thermal Insulation (CUTI) in Petrochemical Industries	Ali A. Al Beed, SADAF

## CUI Inspection Management

Title	Author
CUI Impact on Oil & Gas Industry	Saudi Aramco
On line Surface Preparation for Protective coating against CUI Attack	Hema Chandra, Cape East Abu Dhabi
CUI Prevention on new projects using high temperature coating material	Philippe Fouques, Jotun U.A.E
CUI Detection and Monitoring using advanced Digital radiography	Vejay Technologies
Panel Discussion on CUI Management	Taher Aljundi, Saudi Aramco

## Pipelines Inspection Management

Title	Author
Panel Discussion On Pipeline Inspection Management	Taher Aljundi, Saudi Aramco
Different intelligent pigging techniques and tools: overview and introduction of latest developments	Dr. Michael beller, ndt systems & services ag
Intelligent pigging – verification and monitoring of in-line inspection results	John Lilley, Sonomatic Ltd.
Case studies and experiences: integrity assessment and corrosion growth studies based on in-line inspection data	Dr. Christoph Jäger, NDT Systems & Services AG
External inspection techniques: ultrasound technology for use in the inspection of non-piggable pipelines	John Lilley, Sonomatic Ltd.
External pipeline inspection techniques & eddy current based inspection solutions for the oil & gas industries	Andreas Boenisch, Innospection Ltd.
Special inspection solutions for onshore and offshore applications	Dr. Konrad Reber, Innospection Ltd.

## Nonmetallic Inspection

Title	Author
Application and challenges of non-metallic material in the oil and gas industry	Nasser behlany, petroleum development oman
Challenges in managing corrosion with polymer based material in the oil & gas industry	Dr. Anthony Kakpovbia, Saudi Aramco
Qualifying and promoting the use of composite valves in hydrocarbon services	Mousa R. Al-Harbi, Saudi Aramco
In- Service inspection of Non-metallic pipes using Microwave technology.	Ghazzay Al-Subaii, Saudi Aramco
Panel Discussion on nonmetallic inspection	Taher Aljundi, Saudi Aramco



# Workshops



## Workshop No. 1

### NONDESTRUCTIVE TESTING FOR ENGINEERS

#### Introduction:

This short course covers the fundamentals of the basic Nondestructive Testing (NDT) methods, their classification and how they relate to one another. The course emphasizes advantages and disadvantages as well as major applications of each of the basic methods and introduces variations of the methods as well as some of the more significant advanced NDT methods. The course is intended for those having limited knowledge of NDT, yet have a need for a better understanding. Engineers, Supervisors and Managers will benefit equally with the knowledge they will gain. More information about this course will be supplied on request.

Instructor: **Fathi E. Al-Qadeeb, Saudi Aramco**

#### Date and Time:

Saturday 7 November, 2009  
8am – 12pm (4 hours)

#### Course Fee:

BD. 100 or US\$ 270

#### Venue:

Al Murjan, GICC, Gulf Hotel

## Workshop No. 2

### TWO DAY COURSE ON FUNDAMENTALS OF RADIOACTIVE SOURCE RETRIEVAL

#### Introduction:

With the advances in equipment design, material quality and operator training, incidents dealing with radioactive materials used for industrial radiography have significantly reduced, however remain a real possibility. This program address the fundamentals of source retrieval for incidents involving control cable disconnects, stuck or jammed isotopes or isotope controls and other situations that result in a loss of immediate control of radioactive materials. Participants will gain fundamental knowledge of source retrieval techniques, complications that could arise and precautionary measures to minimize radiation dose to recovery personnel. This program will benefit personnel having a responsibility for emergency response for radiation safety incidents, source retrieval and incident prevention. Participants will receive course notes, handouts and publication "Industrial Radiography Radiation Safety"

Instructor: **Mr. Tom Scales, Saudi Aramco**

#### Date and Time:

Saturday and Sunday 7-8  
November, 2009  
8am – 2pm (12 hours)

#### Course Fee:

BD. 200 or US\$ 540

#### Venue:

Al Murjan, GICC, Gulf Hotel

## Workshop No. 3

### USE OF AUTOMATED ULTRASONICS ON CAPITAL PROJECTS

#### Introduction:

This course provides an overview of the implementation of advanced UT testing at Construction Projects and Offshore applications including the use of ASME Code Case 181 and 2235. The course will also cover the advantages of ToFD including greater probability of defect detection (POD) and improved inspection/reporting time – which have fostered the surge in usage of this technology.

Instructor: **Mr. Raymond J. Carswell, Saudi Aramco**

#### Date and Time:

Sunday 8 November, 2009  
8am - 4pm (8 hours)

#### Course Fee:

BD. 100 or US\$ 270

#### Venue:

Al Dana, GICC, Gulf Hotel

## Workshop No. 4

### CERTIFICATION AND TRAINING OF NDT PERSONNEL

#### Introduction:

This course provides a road map to allow the participants to understand the complete requirements for certification in NDT methods. The emphasis would be on understanding of the full requirements of the codes and standards and how to fulfill these requirements. The focus especially is on the different types of documentation as well as training requirements for NDT personnel qualification and certification. Who should attend – All levels of NDT professional who are thinking about certification and their supervisors and managers who would like to gain knowledge of the NDT certification requirements.

Instructor: **Mr Morteza K. Jafari, ASNT Board Member and Vice Chairman of the Research Council**

#### Date and Time:

Sunday 8 November, 2009  
8am – 12pm (4hours)

#### Course Fee:

BD. 100 or US\$ 270

#### Venue:

Al Murjan, GICC, Gulf Hotel



## Workshops



### **Workshop No. 5**

#### **IMPORTANCE OF MAINTAINING NDT PERSONNEL QUALITY ON PRODUCTS**

##### **Introduction:**

This seminar is designed to provide the attendees with an overview of the philosophies of the NDT personnel certification. It is a highly emotional and sometimes controversial subject which directly affect the livelihood of most NDT practitioners. There has been widespread misunderstanding and abuse of this process and it is hoped that this seminar will help clear up some of the problems. While other certification program will primarily deal with the world's most widely used program, SNT-TC-IA. The ultimate goal of this seminar will be to provide guidance to assure that the certification and qualification of NDT personnel is done properly and in a way that will be beneficial to the employer and the practitioners.

Instructor: **Mr. Charles J. Hellier**

##### **Date and Time:**

Sunday 8 November, 2009  
8am – 12pm (4 hours)

##### **Course Fee:**

BD. 100 or US\$ 270

##### **Venue:**

VIP, GICC, Gulf Hotel

### **Workshop No. 6**

#### **COMPENSATING FOR VARIATIONS IN MATERIAL PROPERTIES IN REMOTE FIELD TESTING OF HEAT EXCHANGER AND BOILER TUBES**

##### **Introduction:**

It is well known that the properties of carbon steel tubes change with such things as applied stresses, (which affects the magnetic permeability of the tube). Tubes that have become bent in service, (such as bent boiler tubes); tubes that have been bent during manufacturing (such as return bends) and tubes that have been bent during handling (such as the outer rows of exchanger tubes removed for cleaning every shutdown), can give signals that can be mistaken for wall loss. Quite often, it is difficult to find calibration sample that is identical to actual tubes/pipes in both material properties and geometry. Difference in either material properties or tube wall thickness requires material compensation before defects can be quantified. It is a better solution to use material compensation technique than to prepare all types of calibration tubes to calibration all possible tube types that may exist in a tube bundle. NDT Technicians, Engineers, Supervisors and Managers will benefit equally with the knowledge they will gain.

Instructor: **Mr. Ankit Vajpayee, Russell N.D.E. Systems Inc**

##### **Date and Time:**

Saturday 7 November, 2009  
8am – 4pm (8 hours)

##### **Course Fee:**

BD. 100 or US\$ 270

##### **Venue:**

VIP, GICC, Gulf Hotel

### **Workshop No. 7**

#### **APPLICATION OF GUIDED WAVES ON BURIED AND ROAD CROSSING LINES**

##### **Introduction:**

This course will briefly outline the fundamental concepts governing guided wave testing, and then go on to explore the specific requirements for testing both buried lines and road crossings. These will be approached from the viewpoint of pipeline operators and outline what they need to provide to the technician before testing begins, and what they need to look for in the reports that is received at the end of the job. The information presented in the workshop will benefit the engineer/operator responsible for the pipeline in addition to the inspection supervisor overseeing the work.

Instructor: **Dr. Reyaz Sabet-Sharghi, IESCO**

##### **Date and Time:**

Saturday 7 November, 2009  
8am – 4pm (8 hours)

##### **Course Fee:**

BD. 100 or US\$ 270

##### **Venue:**

Al Dana 5, GICC, Gulf Hotel

### **Workshop No. 8**

#### **LIVING WITH DEFECTS - FITNESS-FOR-SERVICE (FFS) ASSESSMENT**

##### **Introduction:**

When plant items are replaced or when repairs are carried out simply because of non-compliance with the original design code or the corrosion allowance has been used up, the cost implications to companies are enormous. The application of proven FFS technology is changing the way in which such decisions are made. Engineers attending this training will acquire a valuable appreciation of when to apply FFS technology; be able to choose the appropriate method or combination of methods to solve a given problem; understand the results of the assessment(s) to help make informed decisions.

Instructor: **Mr. Ron Selva, PP SIMTECH Solutions Ltd**

##### **Date and Time:**

Saturday 7 November, 2009  
1:00pm – 5:00pm (4 hours)

##### **Course Fee:**

BD. 100 or US\$ 270

##### **Venue:**

Al Dana, GICC, Gulf Hotel



## Workshop No. 9

### ADVANCEMENT IN RBI TECHNOLOGY - IMPLEMENTING RBI BEST-PRACTICE

#### Introduction:

When plant and equipment items are taken out of service for the purpose of inspection, the cost implications to companies are enormous. The application of RBI is changing the way in which inspection requirements are assessed. However, implementing a reliable RBI technology which incorporates best practice can deliver significant improvements in current reliability and safety, whilst at the same time will optimise each item inspection interval, minimise downtime and maximise plant run-length time between TA. Engineers and Managers attending this training will acquire a valuable appreciation of what constitutes a reliable RBI technology and best practice for implementation; Damage Mechanisms and effects; Role of NDT. This understanding is necessary in order to give total confidence to the decision makers involved with.

Instructor: **Mr. Ron Selva, PP SIMTECH Solutions Ltd**

#### Date and Time:

Saturday 7 November, 2009  
8am – 12pm (4hours)

#### Course Fee:

BD. 100 or US\$ 270

#### Venue:

Falcon 1, GICC, Gulf Hotel

## Workshop No. 10

### SIZING AND CHARACTERIZATION OF INDICATIONS (PLANAR/VOLUMETRIC) USING PHASED ARRAY AND TOFD TECHNIQUES

#### Introduction:

The course will cover the technical aspects of defect sizing and characterization utilizing data and techniques from field applications. Engineers, Supervisors and Managers will benefit equally with the knowledge they will gain.

Instructor: **Mr. Giuseppe, The NARDONI**

#### Date and Time:

Saturday 7 November, 2009  
8am – 12pm (4 hours)

#### Course Fee:

BD. 100 or US\$ 270

#### Venue:

Falcon 2, GICC, Gulf Hotel

## Workshop No. 11

### RISK BASED INSPECTION

#### Introduction:

The course is aimed at inspection, maintenance and engineering staff who are likely to participate in RBI assessment projects on pressure systems, pipelines, boilers and storage tanks and who are likely to lead RBI assessment teams.

The topics include: \* An overview of RBI in accordance with API Base Resource Document 581 Level 1, Level 2, and Level 3 \* Reasons for implementing RBI \* The benefits of using RBI

Instructor: **Mr. Chris Ablitt, The Welding Institute**

#### Date and Time:

Sunday 8 November, 2009  
1:00pm – 5:00pm (4 hours)

#### Course Fee:

BD. 100 or US\$ 270

#### Venue:

Al Murjan, GICC, Gulf Hotel

## Workshop No. 12

### THE ROLE OF NDT IN PRE-SHIPMENT INSPECTION

#### Introduction:

A Pre-shipment Inspection (PSI) is inspection of goods being exported prior to the shipment. By performing inspections, companies are able to identify problems early with the goal of eliminating the causes. Utilized correctly, inspections save money by eliminating process problems and ensuring that the end product meets customers requirements and expectations. The objective of this workshop is to the participants to understand principles, technology of pre shipment inspection. The workshop consists of lectures, case study and discussions.

Instructor: **Dr. Mohamed Alaalam, IRC**

#### Date and Time:

Sunday 8 November, 2009  
8am – 4pm (8 hours)

#### Course Fee:

BD. 100 or US\$ 270

#### Venue:

Falcon 1, GICC, Gulf Hotel



Category	Saturday - 7th Nov'09		Sunday - 8th Nov'09		Monday - 9th Nov'09		Tuesday - 10th Nov'09		Wednesday - 11th Nov'09	
	am	pm	am	pm	am	pm	am	pm	am	pm
Workshop No. 1	█									
Workshop No. 2 (2 Days)	█	█	█	█						
Workshop No. 3			█	█						
Workshop No. 4			█							
Workshop No. 5			█							
Workshop No. 6	█	█								
Workshop No. 7	█	█								
Workshop No. 8		█								
Workshop No. 9	█									
Workshop No. 10	█									
Workshop No. 11				█						
Workshop No. 12			█	█						
Conference Opening Ceremony				█						
Conference Technical Session					█	█	█	█	█	█
Exhibition					█	█	█	█	█	█

### Hotel Information

Luxurious hospitality. A landmark in Manama just 10 minutes away from Bahrain International Airport and 5 minutes from the City Centre. The Gulf Hotel offers 366 well-appointed rooms of gracious style, uncompromising efficiency and thoughtful technology. The impressive and unrivalled Gulf International Conference & Exhibition Centre offers exhibition, meeting and pre-function areas with unequalled state of the art facilities. The hotel houses many of Bahrain's leading restaurants. For more information, please visit the Gulf Hotel website - [www.gulfhotelbahrain.com](http://www.gulfhotelbahrain.com).

### Accommodation Information

A block booking of rooms at the Gulf Hotel, the Conference & Exhibition Venue, has been made for the participants during the conference period. Following are the Special Gulf Hotel Corporate rates for the NDT Conference Participants.

Type of Rooms	Single Room Rate per Night		Double Room Rates per Night	
	Bahrain Dinar	US Dollars	Bahrain Dinar	US Dollars
Superior Room Single	75	203	85	230
Deluxe Room Single	80	216	90	243
Grand Deluxe Room	95	257	105	284
Luxury Room	100	270	110	297
Platinum Room	120	324	130	350
Deluxe Suite ( 1- bed room suite)	355	960	355	960
Luxury Suite (2-bedrooms suite)	457	1235	457	1235

The above room rates are subject to 15% service charge and 5% government levy per room per night. Rooms Requests received after the deadline i.e. 30th September 2009 will be subject to availability. For online bookings please contact the Gulf Hotel Room Reservations by email: [rgc@gulfhotelbahrain.com](mailto:rgc@gulfhotelbahrain.com)

The following is a list of recommended 4 and 3 Star Hotels in the area, along with their contact details for your inquiries:

**1. Ramada Hotel:** Mr. Michael Chettiar, Sales Manager  
Tel: +973 17 742000, E-mail - [ramares@batelco.com.bh](mailto:ramares@batelco.com.bh) - [www.ramada.com](http://www.ramada.com)

**2. Al Safir Hotel & Tower:** Mr. Waleed Mohammed, Sales Manager  
Tel: +973 17 827999, E-mail - [waleed@alsafirhotel.com](mailto:waleed@alsafirhotel.com)



## Sponsorship Form



# 5<sup>th</sup> Middle East Nondestructive Testing Conference & Exhibition

November 08 - 11, 2009

Gulf International Convention Centre, Gulf Hotel, Kingdom of Bahrain

To Co-sponsor the 5<sup>th</sup> MENDT Conference

Please complete this form and return to

Conference Secretariat

Bahrain Society of Engineers

P.O. Box 835, Manama, Bahrain, Email: [bseng@batelco.com.bh](mailto:bseng@batelco.com.bh)

Our company is pleased to sponsor the following conference expenses:

<input type="checkbox"/> Elite Platinum Sponsor	BD. 20,000	US \$ 54,500
<input type="checkbox"/> Platinum Sponsor	BD. 10,000	US \$ 27,500
<input type="checkbox"/> Golden Sponsor	BD. 5,000	US \$ 13,300
<input type="checkbox"/> Silver Sponsor	BD. 3,000	US \$ 8,100
<input type="checkbox"/> Conference Dinner	BD. 7,500	US \$ 20,250
<input type="checkbox"/> Publications (Flyers, Posters, CD's)	BD. 2,500	US \$ 6,750

Company Name: \_\_\_\_\_

Contact: \_\_\_\_\_ Title: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

City: \_\_\_\_\_ Country: \_\_\_\_\_ Postal Code: \_\_\_\_\_

Telephone: \_\_\_\_\_ Fax: \_\_\_\_\_ E-mail: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Payment may be made by Banker's Draft / Cheque payable to

**Bahrain Society of Engineers**

A/C No 99065991

Bank: National Bank of Bahrain (Main branch)

Swift Code - NBOBBHBM



# Sponsors Benefits



## 1 PLATINUM SPONSOR BD 10,000 (US\$ 27,000)

- Company name and logo of appropriate sizes will be published in all the conference publicity materials as Platinum Sponsor.
- Entitled for fifteen square meter stand space with stand fittings at the exhibition hall.
- Four delegates from the sponsoring company may attend the conference with full package free of charge.
- Publicity materials will be included in the conference pack.
- Company name and logo with a brief profile will be published in the conference web site which shall be connected to the Sponsor's web site.
- A full page advertisement shall be provided in the Exhibition Guide for the Platinum Sponsor.
- Sponsored company will be honored with a Plaque by the Conference Patron at the Opening Ceremony.
- Executive Officers will be treated as VIPs during the event and official lunches and dinner.
- Company logo size 2 m x 2 m will be displayed in the conference hall along with the conference banner and outside lobby.
- Company name and logo will be published in the conference proceedings.

## 2 GOLDEN SPONSOR BD 5,000 (US\$ 13,300)

- Company name and logo will be published in all the conference publicity materials as Golden Sponsor.
- Entitled for six sq. meter stand space with stand fittings at the exhibition hall.
- Two delegates from the sponsoring company may attend the conference with full package free of charge.
- Publicity materials will be included in the conference pack.
- Company name and logo with a brief profile will be published in the conference web site which shall be connected to the Sponsor's web site.
- A half page advertisement shall be provided in the Exhibition Guide for the Golden Sponsor.
- Sponsored company will be honored with a Plaque by the Conference Patron at the opening ceremony.
- Executive Officers will be treated as VIPs during the event and at the official lunches and dinner.
- One banner size 1.5 m x 1.5 m will be displayed in the conference hall, lobby and exhibition hall.
- Company name and logo will be published in the conference proceedings.

## 3 SILVER SPONSOR BD 3,000 (US\$ 8,100)

- Company name and logo will be published in all conference publicity materials as Silver Sponsor.
- One delegate from the sponsoring company may attend the conference with full package free of charge.
- Publicity materials will be included in the conference pack.
- Company name and logo with a brief profile will be published in the conference web site which shall be connected to the Sponsor's web site.
- Executive Officers will be treated as VIPs during the event and at the official lunches and dinner.
- Sponsored company will be honored with a Plaque by the Conference Patron at the opening ceremony.
- One banner size 1 m x 1 m will be displayed in the conference hall.
- Company name and logo will be published in the conference proceedings.

## 4 CONFERENCE DINER SPONSOR - B.D. 7,500 ( US\$ 20,250 )

- Company name and logo will be published in all the conference publicity materials as Dinner Sponsor.
- Entitled for eight sq. meter stand space with stand fittings at the exhibition hall.
- Three delegates from the sponsoring company may attend the conference with full package free of charge.
- Publicity materials will be included in the conference pack.
- Company name and logo with a brief profile will be published in the conference web site which shall be connected to the Sponsor's web site.



## Sponsors Benefits



- A half page advertisement shall be provided in the Exhibition Guide for the Golden Sponsor.
- Sponsored company will be honored with a Plaque by the Conference Patron at the opening ceremony.
- Executive Officers will be treated as VIPs during the event and at the official lunches and dinner.
- Extra 5 additional Invitations will be provided for Dinner
- One banner will be displayed at the Dinner Venue.

### 5 LUNCHEON SPONSOR - B.D. 5,500 ( US\$ 14,850 )

- Company name and logo will be published in all the conference publicity materials as Luncheon Sponsor.
- Entitled for six sq. meter stand space with stand fittings at the exhibition hall.
- Three delegates from the sponsoring company may attend the conference with full package free of charge.
- Publicity materials will be included in the conference pack.
- Company name and logo with a brief profile will be published in the conference web site which shall be connected to the Sponsor's web site.
- A half page advertisement shall be provided in the Exhibition Guide for the Golden Sponsor.
- Sponsored company will be honored with a Plaque by the Conference Patron at the opening ceremony.
- Executive Officers will be treated as VIPs during the event and at the official lunches and dinner.
- Extra 3 additional Invitations will be provided for Lunch
- One banner will be displayed at the Lunch Venue.

### 6 PUBLICATION SPONSOR - B.D. 2,500 ( US\$ 6,750 )

- Company name and logo will be published in all conference publicity materials as Publication Sponsor.
- One delegate from the sponsoring company may attend the conference with full package free of charge.
- Publicity materials will be included in the conference pack.
- Sponsored company will be honored with a Plaque by the Conference Patron at the opening ceremony.
- One banner will be displayed in the conference hall.
- Company name and logo will be published in the conference proceedings.





# Exhibition



A technical exhibition will be held in conjunction with the technical sessions within the conference venue. The exhibition is intended to provide an opportunity for companies, consulting and research organizations to display and demonstrate their activities and services related to Nondestructive testing field. Interested organizations are encouraged to participate in the exhibition.

### Stand Size and Fittings

The exhibition stands are 3m wide and 2m deep with 2.5m height. Stand fittings will consist of a system stand, two fluorescent lights, and fascia board in English, one electrical power point and sufficient tables and chairs. In addition each exhibitor will avail the following benefits:

- A brief resume / profile (8–10 lines) with company logo of each exhibitors will be included in the official exhibition guide and the CD of the conference proceedings which will be circulated to all invited government officials, VIP visitors, conference participants and other visitors to the exhibition during the conference period.

The names of the exhibitor will also be published in the conference website.

- Advertising space will also be available in the Exhibition Guide and final conference program at discounted costs as below. This booklet will be distributed to all participants, VIPs and visitors during the conference period:

A4 size full page full colour	BD. 250	US\$ 675
A4 size full page black & white	BD. 200	US\$ 540
A4 size half page full colour	BD. 150	US\$ 405
A4 size half page black & white	BD. 100	US\$ 270

- Wide publicity will be given in the Gulf region about the exhibition to attract consultants. Contractors and Government officials to visit the exhibition booths during the conference period.

- Each Exhibitor is entitled to one full conference package with free admittance in the conference technical sessions.
- Each Exhibitor will be provided with a sufficient number of Visitor/VIP invitations for their customers and VIP guests.

### Stand Cost

- One full exhibition Stand with the above fittings - BD. 800 or US\$ 2,160
- Exhibition Space without fittings - BD. 125 or US\$ 338 per sq. mtr. Minimum size is 6 sq. mtrs.

### Customs Clearance

The Conference Committee has appointed "Circle Freight International" as the official clearing agent to clear all display items imported for this Conference & Exhibition. They are providing Door to Door collection and delivery service through their offices all over in the world. Exhibitors wishing to import display items for the exhibition may contact them to their below address. For more information please contact them directly.

Mr. Sunil Kumar, Circle Freight International  
Tel: 00973 17 735355, Fax: 00973 17 735193  
Email: sunil@circlefreight.com.bh / info@circlefreight.com.bh

### Exhibition Timing ( November 9 - 11, 2009)

Opening Ceremony	Sunday 7:00 pm
Exhibition	Monday & Tuesday, 8:00 am - 6:00 pm
	Wednesday , 8:00 am - 2:00 pm

### For Exhibition Stands Booking

#### Conference Secretariat NDT 2009

P.O. Box 835, Manama  
Kingdom of Bahrain  
Tel: +973 17 727100  
Fax: +973 17 827475 / 17 729819  
E-mail: bseng@batelco.com.bh

### Payment Method

1. Full payment of the exhibition stand should be paid in advance.
2. Acceptable forms of payment include US Dollars/ Bahraini Dinar by Banker's Draft payable to Bahrain Society of Engineers or Credit Card Mail Order. Payment can also be made by direct bank transfer payable to:

**A/C No.** - 99065991  
**A/C Name** - Bahrain Society of Engineers  
**Bank Name** - National Bank of Bahrain  
**Swift Code** - NBOBBHBM

#### M.A. Al Saleh

Dhaharan 31311, Saudi Arabia  
Tel: (9663) 8720157 Fax: (9663) 8720630  
Mobile: 00966 505480504  
Email: mohammad.salih.1@aramco.com  
or

#### Conference Coordinator

5th Middle East Nondestructive Testing Conference and Exhibition Bahrain Society of Engineers  
P. O. Box 835, Manama, Bahrain  
Tel: +973-17727100, Fax: +973-17827475  
E-mail: bseng@batelco.com.bh or rizwan@mohandis.org





# Exhibition Form



## 5<sup>th</sup> Middle East Nondestructive Testing Conference & Exhibition

November 08 - 11, 2009  
Gulf International Convention Centre, Gulf Hotel, Kingdom of Bahrain

Company : \_\_\_\_\_

Contact Name: \_\_\_\_\_ Title: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

City: \_\_\_\_\_ Country: \_\_\_\_\_ Postal Code: \_\_\_\_\_

Tel: \_\_\_\_\_ Fax: \_\_\_\_\_ E-mail: \_\_\_\_\_

Products or services to be displayed: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

### Option A

Shell Scheme Package  
Participation fees:  
BD 800 or USD 2160  
(per 6m<sup>2</sup>)

No. of Stands  
Required

### Booked Shell Space

Participation includes:  
White wall panels 2.5m height, Carpet Floor, Table with  
two chairs, two fluorescent lights, one 240 volt power  
supply (3 pin) and a waste basket.

Stand Nos.

Select desired stand Nos. from the exhibition stand layout

### Option B

Stand Space Only (min. 6m<sup>2</sup>)  
Participation fees: BD 125 or USD 338 per m<sup>2</sup>

Stand No.

Select desired stand numbers from exhibition stand layout  
**Booked Stand Space**

Participation does not include any sand construction except  
one 240 volt power supply. (It is not permitted to use wall  
partitions of adjacent stands and stand construction  
exceeding the standard height of 2.5m require written  
approval from organizer)

### Option C

Open Exhibition Space: Available for heavy  
equipment upon request. Area Required:

Note: All efforts will be made to accommodate your stand location request based on availability

Please forward your booking form to:  
Conference Secretariat, Bahrain Society of Engineers,  
P.O. Box 835, Manama, Kingdom of Bahrain, Tel: +973 17 727100, Fax: +973 17 827475  
Email: bseng@batelco.com.bh





# List of Exhibitors



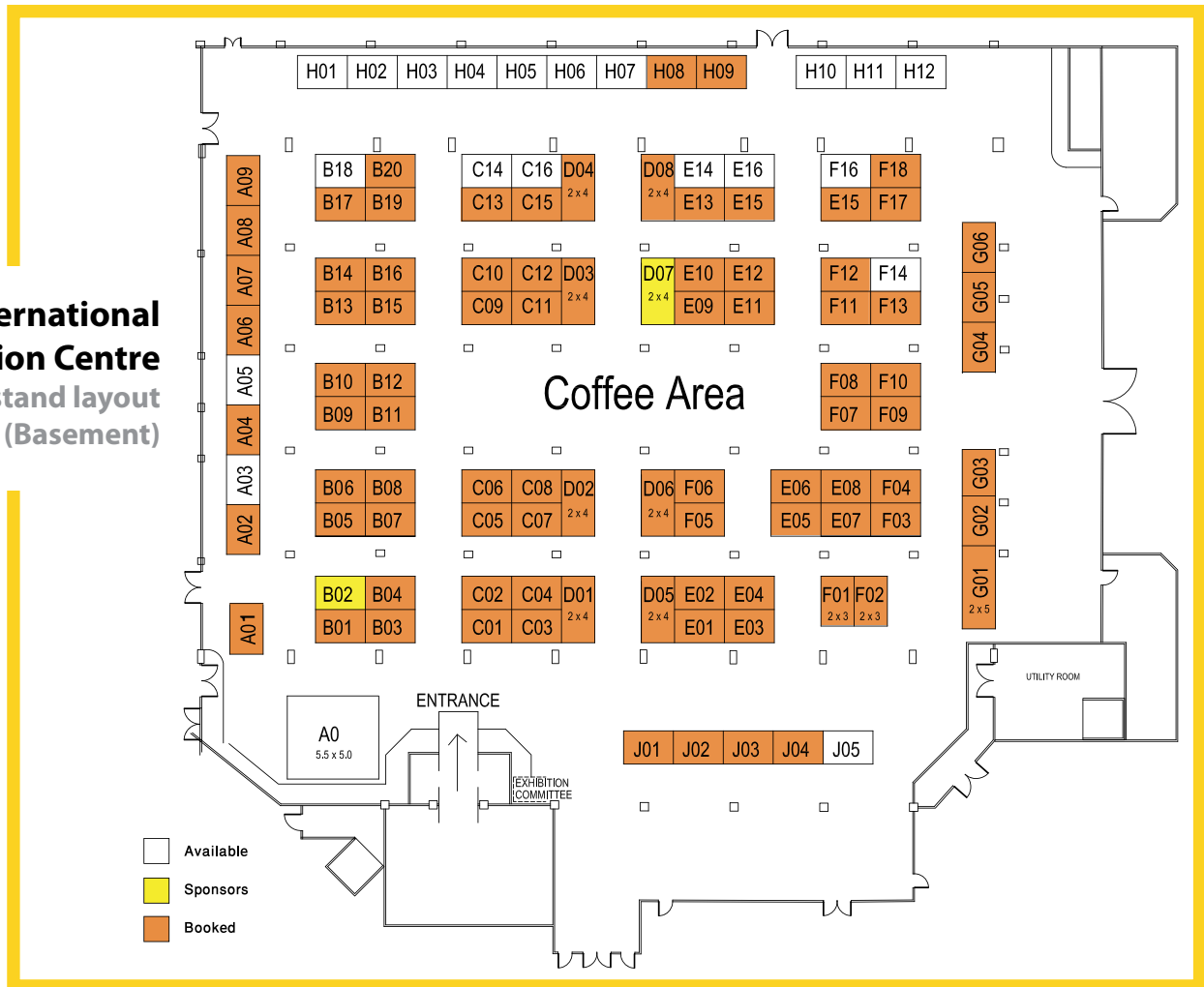
Stand No.	Company Name	Country
A 01	B-Tech	Saudi Arabia
A 02	Far Asia	China
A 04	Tamimi Industrial Services	Saudi Arabia
A 06	Gulf Oil Systems & Services	Saudi Arabia
A 07	GAMMATEC Middle East General Trading LLC.	UAE
A 08	GAMMATEC Middle East General Trading LLC.	UAE
A 09	GAMMATEC Middle East General Trading LLC.	UAE
B 01	Force Technology	Saudi Arabia
B 03	Force Technology	Saudi Arabia
B 04	GTC	Saudi Arabia
B 05	Global School of NDT	U.S.A
B 06	Ameritest	U.S.A
B 07	ROSEN Inspection	Saudi Arabia
B 08	ROSEN Inspection	Saudi Arabia
B 09	Cooperheat	Saudi Arabia
B 10	Cooperheat	Saudi Arabia
B 11	Cooperheat	Saudi Arabia
B 12	Cooperheat	Saudi Arabia
B 13	Abdulla Fouad Holding Co. ( NDT Division)	Saudi Arabia
B 14	I &T NARDONI INSTITUTE S.r.l	Italy
B 15	Abdulla Fouad Holding Co. ( NDT Division)	Saudi Arabia
B 16	Saudi Pioneer Specialized Services (SPSS)	Saudi Arabia
B 17	Petrochem Industrial Technical Support Services	Saudi Arabia
B 19	InnoInspection	Saudi Arabia
B 20	InnoInspection	Saudi Arabia
C 01	Saudi Aramco	Saudi Arabia
C 02	Saudi Aramco	Saudi Arabia
C 03	Saudi Aramco	Saudi Arabia
C 04	Saudi Aramco	Saudi Arabia
C 05	Olympus	Saudi Arabia
C 06	Olympus	Saudi Arabia
C 07	Olympus	Saudi Arabia
C 08	Olympus	Saudi Arabia
C 09	SOGEC	Saudi Arabia
C 10	NDT Seals	U.S.A
C 11	SOGEC	Saudi Arabia
C 12	Sigma Enterprises LLC.	UAE
C 13	Turgen	U.A.E
C 15	Turgen	U.A.E
D 01	Saudi Aramco	Saudi Arabia
D 02	Olympus	Saudi Arabia
D 03	KODAK INDUSTREX Products	U.A.E
D 04	MODSONIC Ltd.	India
D 05	King Abdulaziz University	Saudi Arabia
D 06	Industrial Support Services Co. (ISS)	Saudi Arabia
D 07	3D Corrosion	Belgium
D 08	AXIS Inspection Technology	Saudi Arabia
E 01	Reserved for Platinum Sponsor/s	

Stand No.	Company Name	Country
E 02	Reserved for Platinum Sponsor/s	
E 03	Reserved for Platinum Sponsor/s	
E 04	Reserved for Platinum Sponsor/s	
E 05	GE Sensing & Inspection Technology	Germany
E 06	GE Sensing & Inspection Technology	Germany
E 07	GE Sensing & Inspection Technology	Germany
E 08	GE Sensing & Inspection Technology	Germany
E 09	Delta Test GmbH. Anabeeb	Saudi Arabia
E 10	National Inspection & Technical Testing Co. Ltd.	Saudi Arabia
E 11	Delta Test GmbH. Anabeeb	Saudi Arabia
E 12	KARL STORZ ENDOSKOPE	Germany
E 13	FF Automation	Finland
E 15	TCR Arabia	Saudi Arabia
F 01	Physical Acoustics	England
F 02	Technical Sources Contracting Est	Saudi Arabia
F 03	GE Sensing & Inspection Technology	Germany
F 04	GE Sensing & Inspection Technology	Germany
F 05	Gulf Engineering House	Saudi Arabia
F 06	Faisal M. Qahtani Sons Co.	Saudi Arabia
F 07	Al Othman Company	Saudi Arabia
F 08	NDT CCS	Saudi Arabia
F 09	SSI Arabia LTD	Saudi Arabia
F 10	AL Mutlaq Company	Saudi Arabia
F 11	Industrial Nuclear Company	U.S.A
F 12	VJ Technologies	U.S.A
F 13	Gulf Quality Control Co Ltd	Saudi Arabia
F 15	Starmans electronics Ltd.	Czech Republic
F 17	FOMA BOHEMIA spol. s r.o.	Czech Republic
G 01	Siilverwing Middle East LLC	UAE
G 02	Siilverwing Middle East LLC	UAE
G 03	Siilverwing Middle East LLC	UAE
G 04	IT Concept GmbH	Germany
H 07	SENTINEL - QSA Global, Inc.	U.S.A
H 08	SENTINEL - QSA Global, Inc.	U.S.A
J 01	ASNT/SAS (Saudi Arabia Section)	Saudi Arabia
J 02	BSE (Bahrain Society of Engineer)	Bahrain
J 03	SCE (Saudi Council of Engineering)	Saudi Arabia
J 04	JIC (Jubail Industrial College)	Saudi Arabia





## Gulf international Convention Centre exhibition stand layout (Basement)



### Saudi Arabian Section of the American Society for Nondestructive Testing (ASNT-SAS)

The Saudi Arabian Section (SAS) of the American Society for Nondestructive Testing was chartered in 1999. Since then, the section has grown to over 450 individual and corporate members. The section was founded in order to promote the discipline of NDT as a profession, provide a forum for exchange of NDT technical information through educational materials and programs, and facilitate standards and services for the qualification and certification of NDT personnel. SAS has established four successful regional conferences on NDT in Bahrain and Saudi Arabia. The SAS section is the most active section with the highest standing among the worldwide NDT community.



### جمعية المهندسين البحرينية THE BAHRAIN SOCIETY OF ENGINEERS

The Bahrain Society of Engineers was established in 1972 as a professional voluntary non-profit organization and is the premier body representing engineering professionals in the Kingdom. Amongst others, it seeks to advance the profession while striving for continuous enhancement of engineering skills of its members through training and by conducting technical & professional programmes. The society aims for excellence in all its activities and promotes a code of conduct and ethics amongst its members. In addition to promoting the profession, its activities include amongst others, supporting the development of the economy and contributing to measures for protecting the environment. The society has developed an enviable track record of capacities, skills and experience and is widely acknowledged as a leading engineering body in the GCC, particularly in organising scientific conferences, exhibitions and training events, sometimes in partnership with other leading bodies. It maintains close links with the government and academia including with leading universities and has annual contact programmes with secondary school students to promote the engineering profession and encourage the youth to take up engineering as a career.



# Organizing Committee



**Fathi Al Qadeeb, Conference Chairman**

**Mohammad Al Salih, Conference Vice Chairman**

## Conference Organizing Committee

Jameel Al-Alawi (Chairman)	BSE
Tom Scales	ASNT-SAS
Abdullah Al-Khunaini	Saudi Aramco
Yasser Ali Yousif	Saudi Aramco
ALI Al-Beed	SABIC/SADAF
Y.G. Abdulla	BSE

## Technical Program Committee

Dr. Ali Minachi (Chairman)	ASNT-SAS
Dr. Taher Al-Jundi	ASNT-SAS
Dr. Ahmed Yamani	KFUPM
Dr. Samir Al-Zaidi	KAU
Dr. Fouad Attar	JIC
Ghazzay Al-Subaii	ASNT-SAS
Tom Scales	ASNT-SAS
Jim Carswell	ASNT-SAS
Randy Pasol	ASNT-SAS
Gusai Al-Aithan	Saudi Aramco
Mohammed Al-Ammadi	BSE

## Sponsorship Committee

Sami Al Khalifah (Chairman)	ASNT-SAS
Saeed Al-Baggal	ASNT-SAS
Tom Scales	ASNT-SAS
Mohammed Al-Qmair	ASNT-SAS
Faisal Al-Mudhi	ASNT-SAS
Saad Al Musallam	ASNT-SAS
Abdullah Al Fenais	ASNT-SAS

## Exhibition Committee

Mohammad Al Salih (Chairman)	ASNT-SAS
Mohammed Abu Four	ASNT-SAS
Ali Al-Mugarub	ASNT-SAS
Adel Al-Abbas	ASNT-SAS
Abdullah Al-Khalifa	Saudi Aramco
Hussain Maki	BSE

## Workshop Committee

Jim Carswell (Chairman)	ASNT-SAS
Tom Scales	ASNT-SAS
Mohammed Khan	ASNT-SAS
Venkat Dasarathy	ASNT-SAS

## Conference Steering Committee

**Ayedh Al Saleh, Chairman**  
Inspection Department Manager, Saudi Aramco

## Board Members

**Mosaed Al-Garni**  
General Manager, SABIC Technical Center - Jubail

**Abdulmajeed Al-Gassab**  
BSE President, Bahrain

**Hamad Al-Mehthel**  
Assistant to VP of ES, Saudi Aramco

**Fahad Al-Bash**  
Vender Inspection, Saudi Aramco

## Publicity Committee

Mohammad J. Anjum (Chairman)	ASNT-SAS
Fouad Bu Saleh	ASNT-SAS
Mohammed Akmal Khan	ASNT-SAS
Rami Busbait	Saudi Aramco
Ala Al-Abandi	ASNT-SAS
Mahdi Al-Jallawi	BSE
Basem Seroor	BSE

## Conference Co-ordinators

Shankar Menon (Conference Manager)	BSE
Mohammad Rizwan (Co-ordinator)	BSE

## International Coordinator

Zaki Al-Zaki Petroleum Technical Center, Sudan

## Conference Venue

The conference and exhibition will be held at the Gulf International Convention & Exhibition Center, Gulf Hotel, Kingdom of Bahrain. The Gulf Hotel offers luxurious hospitality. A landmark in Manama, just 10 minutes away from the Bahrain International Airport and 5 minutes from the City Centre. The Gulf Hotel offers 366 well-appointed rooms of gracious style, uncompromising efficiency and thoughtful technology. The impressive and unrivalled Gulf International Conference & Exhibition Centre offers exhibition, meeting and pre-function areas with unequalled state of the art facilities. The hotel houses many of Bahrain's leading restaurants.





# Registration Form



## 5<sup>th</sup> Middle East Nondestructive Testing Conference & Exhibition

8-11 November 2009 - Gulf International Convention Center , Kingdom of Bahrain  
Registration Form for Delegates & Exhibitors  
Please complete in BLOCK letters. Complete a separate form for each applicant.

Title (Dr. / Mr./Mrs./Miss) First Name: \_\_\_\_\_ Middle Name: \_\_\_\_\_

Family Name: \_\_\_\_\_

Position: \_\_\_\_\_ Department: \_\_\_\_\_

Organisation: \_\_\_\_\_

P.O. Box No: \_\_\_\_\_ Address: \_\_\_\_\_

City: \_\_\_\_\_ State / Country: \_\_\_\_\_

Telephone: \_\_\_\_\_ Mobile: \_\_\_\_\_ Fax: \_\_\_\_\_

Email: \_\_\_\_\_

Delegate Category and Fees (Tick appropriate box) 1 Bahrain Dinar is approx. US\$ 2.70 (Rate includes conference attendance, refreshments during break, conference package with proceedings, three days lunch and conference banquet dinner).

Category	Early Registration Before 10th October, 2009				Registration After 10th October, 2009			
	One Day		Full		One Day		Full	
	BD.	US\$	BD.	US\$	BD.	US\$	BD.	US\$
<input type="checkbox"/> Member BSE/ASNT/Exhibitor	90	245	180	490	100	270	200	540
<input type="checkbox"/> Author	60	162	150	405	80	215	170	460
<input type="checkbox"/> Student	40	110	75	205	40	110	75	205
<input type="checkbox"/> All Others	100	270	200	540	120	325	220	595
<input type="checkbox"/> Workshop No. 1	Non Destructive Testing for Engineers						100	270
<input type="checkbox"/> Workshop No. 2	Two Day Course on Fundamentals of Radioactive Source Retrieval						200	540
<input type="checkbox"/> Workshop No. 3	Use of Automated Ultrasonics on Capital Projects						100	270
<input type="checkbox"/> Workshop No. 4	Certification and Training of NDT Personnel						100	270
<input type="checkbox"/> Workshop No. 5	Importance of Maintaining NDT Personnel Quality on Products						100	270
<input type="checkbox"/> Workshop No. 6	Compensating For Variations In Material Properties in Remote Field Testing of Heat Exchanger And Boiler Tubes						100	270
<input type="checkbox"/> Workshop No. 7	Application of Guided Waves on Buried and Road Crossing Lines						100	270
<input type="checkbox"/> Workshop No. 8	Living with Defects - Fitness-For-Service (FFS) Assessment						100	270
<input type="checkbox"/> Workshop No. 9	Advancement in RBI Technology - Implementing RBI Best-Practice						100	270
<input type="checkbox"/> Workshop No. 10	Sizing and Characterization of Indications (Planar/Volumetric) Using Phased Array and Tofd Techniques						100	270
<input type="checkbox"/> Workshop No. 11	Risk Based Inspection						100	270
<input type="checkbox"/> Workshop No. 12	The Role of NDT in Pre-Shipment Inspection						100	270

Cancellation policy for Courses: Cancellation must be received in writing to the Conference Secretariat. A cancellation fee of BD 30 (US\$80) will be charged for cancellation received before 10th October 2009. After this date no refunds will be given.

**Method of Payment:** Payment by one of the following must be included with the Registration Form:

- Please send invoice to the organisation mentioned above (attach authorisation)
- I enclose a cheque/banker's draft payable to The Bahrain Society of Engineers
- Bank Transfer - A/c No. 99065991, National Bank of Bahrain, Swift Code - NBOBBHBM

**Draft**     **Check**

Please debit my

**Amex**     **Master Card**     **Visa**     **Diners Club**

Please send this completed registration form along with appropriate fees to:

The Bahrain Society of Engineers,  
P.O. Box 835, Manama, Bahrain.  
Tel: + 973 17727100,  
Fax: + 973 17827475  
Email: bseng@batelco.com.bh

Card Number: \_\_\_\_\_

Card Holder's Name: \_\_\_\_\_

Card Holder's Address: \_\_\_\_\_

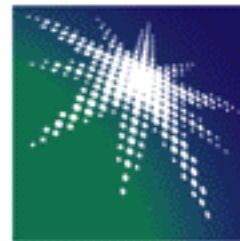
Expiry Date: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

# Conference Sponsors

## ELITE PLATINUM SPONSOR

أرامكو السعودية  
Saudi Aramco



## PLATINUM SPONSORS

STORK®



## GOLD SPONSORS



## SIIVER SPONSORS



## PARTICIPATING ORGANIZATIONS

