



## The World Organisation for NDT

Volume 8 Issue No 9

April 2012

### CHAIRMAN'S MESSAGE

## World Conference provides unique setting

This issue of the ICNDT Journal marks the 18th World Conference on NDT in Durban, South Africa. The conference is the latest in a series promoted by ICNDT, which started in Brussels in 1955 and is now held at four-yearly intervals.

South Africa was selected for the 18th World Conference in 2006 in a competition with NDT societies from Europe and Australasia. A clear majority of the International Committee voted to support the South African Institute of NDT (SAINT) bid, which highlighted the importance of promoting NDT in Africa and supporting the new African Federation for NDT (AFNDT).

Over the last four years, a small team in South Africa, led by Manfred Johannes, Professor Arthur Every and Butch Davies, has worked tirelessly to organise the conference, aiming for a high-quality technical programme and a very comprehensive exhibition. They have been delighted by the response of the invited lecturers, those who submitted papers and the bookings for the exhibition. On behalf of ICNDT and the participants I would like to record our thanks to the SAINT team and encourage them to take great pride in their work.

The 18th World Conference provides a unique setting for each of us to learn from others and to share best practice. Please take every opportunity to meet, talk, ask and listen in the conference sessions, the exhibition and the social events. You could make friends who will remain professional colleagues for years to come.

In parallel with the conference sessions, ICNDT will be meeting with around 50 national NDT societies being represented. We have special ICNDT workshops for fledgling NDT societies, researchers in NDT and personnel certification bodies.

The Durban meetings of ICNDT will provide the opportunity for us to move up a gear and accelerate our activities. ICNDT, following its legalisation as a not-for-profit organisation registered in Vienna, has now matured and become more confident in its operation as a professional federation of NDT societies. Thanks to the support of key member societies, donations from the organisers of World Conferences and now the fee income from member societies, we are in a better position to pursue initiatives that require some resources.

The first of these opportunities is a response to members who have asked for stronger action by ICNDT to promote mutual recognition of approved personnel certification. Our Working Group 1, chaired by John Thompson, has prepared two new ICNDT initiatives:

1. A global Multilateral Recognition Agreement. This will supercede the existing MRAs in the Europe and Asia-Pacific regions. In Europe, through the EFNDT, a Mutual Recognition Agreement has operated since 1994. The member NDT societies recognise third-party certification schemes accepted by the EFNDT. The objective of the new agreement is to ensure that NDT certificates gained under any one of the certification schemes recognised by ICNDT will be accepted in all of the countries that are signatories to the agreement.
2. An ICNDT Approval Scheme for certification bodies to complement accreditation.

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### ICNDT Awards 2012 – winners announced

At each World Conference, ICNDT presents awards to people and organisations that have made major contributions to NDT.

The winners are chosen by secret ballot of the members of the ICNDT Policy and General Purposes Committee, from nominations submitted by member societies.

It is endeavoured to announce the winners in good time, hopefully allowing them to make arrangements to attend the conference in Durban in order to receive their awards.

There are five awards:

- **Roentgen Award** for major contribution to the science and technology of NDT
- **Pawlowski Award** for major contribution to the promotion of NDT internationally
- **Havercroft Award** for major contribution to NDT education, training or certification
- **Sokolov Award** for major contribution to NDT research
- **ICNDT Young Achiever Award** for achievement of young people in NDT (<35 years).

The 2012 winners are:

- **Roentgen:** Professors Peter Cawley and Michael Lowe (*combined nomination*) and Professor Teruo Kishi
- **Pawlowski:** Douglas J Marshall
- **Havercroft:** Patrick Fallouey and Dr Hajime Hatano (*combined nomination*)
- **Sokolov:** Professor Chris Scruby
- **Young Achiever:** Dr Alexey Efimov and Christopher Lane.

Congratulations to all winners! Awards will be presented at the opening ceremony of the 18th World Conference on NDT on 16 April 2012.



## AFRICA /ASIA-PACIFIC

## Committee meetings and events at the 18th World Conference

Day/Date/Time	Event	Venue
Saturday 14 April (am)	ICNDT WG1 Meeting	MR12
Saturday 14 April (pm)	ICNDT IEC & PGP Committee Meetings	MR12
Sunday 15 April (am/pm)	ICNDT General Assembly	MR12
Sunday 15 April (09:00-17:00)	Registration of delegates	Conference Centre
Monday 16 April (am)	Registration & Opening Ceremony	Conference Centre
Monday 16 April (pm)	ISO TC135/SC9 Meeting	Mandela Suite
Monday 16 April (pm)	Research Forum	MR11B
Monday 16 April (18:00)	Cocktails	Exhibition Hall
Tuesday 17 April (08:50)	ISO TC135/SC3 Meeting	Mandela Suite
Tuesday 17 April (pm)	ISO TC135/SC5 Meeting	Mandela Suite
Tuesday 17 April (pm)	Qualification and Certification	MR12A
Tuesday 17 April (pm)	Academia NDT International	MR22
Tuesday 17 April (evening)	Beach party	Beach
Wednesday 18 April	ISO TC135/SC2 Meeting	Mandela Suite
Wednesday 18 April	ISO TC135/SC6 Meeting	Mandela Suite
Wednesday 18 April	ISO TC135/SC8 Meeting	Mandela Suite
Wednesday 18 April	AFNDT	MR11A
Wednesday 18 April	Reliability, POD	1AB
Wednesday 18 April	APCNDT Meeting	MR22B
Wednesday 18 April	Academia NDT International	1AB
Thursday 19 April (08:30)	ISO TC135/SC7 Meeting	Mandela Suite
Thursday 19 April (am)	Fledgling Societies	Suite 23
Thursday 19 April (pm)	Security and EFNDT WG5	MR11A
Thursday 19 April (pm)	ICNDT General Assembly	MR11B
Thursday 19 April (19:00)	Conference Banquet	Conference Centre
Friday 20 April (am/pm)	ISO TC135 Plenary Meeting	Mandela Suite
Friday 20 April (am)	Radiation Protection	MR11A
Friday 20 April (pm)	Closing Session	1AB

## MoU signing ceremonies between Malaysian and Korean NDT companies

MSNT is very happy to note that Malaysian NDT communities are always following the development that occurs around the nation. Realising the possibility that Malaysia may go into the era of nuclear power, some of these companies began to explore the possibility of a collaboration with their counterparts from countries that have experience in applying NDT for nuclear power plant inspection.

In relation to this, two Malaysian NDT companies, namely Careion Sdn Bhd and Danamin Sdn Bhd, signed memoranda of

understanding for collaboration with two Korean NDT companies, KDNT and ANSCO, on 23 November 2011. The signing took place at the Malaysian Nuclear Agency and was witnessed by the Deputy Director General (Technical) of the Malaysian Nuclear Agency, Dr Mohd Ashhar Abd Khalid, and the Chief Executive Officer of the Malaysian Nuclear Power Organisation, Dr Zamzam Jaafar. MSNT hopes that such collaborations will benefit both companies in particular and the Malaysian and Korean NDT communities in general.



Signing of the MoU between two Malaysian NDT companies and two counterparts from Korea



## ASIA-PACIFIC

## News from The Malaysian Society for NDT

## NTC on QA/QC for NDT in Nuclear Power Plant Inspection, 23-25 November 2011

In view of the possibility that Malaysia will finally choose nuclear energy as one of the energy options to sustain her development, MSNT invited an IAEA expert from South Korea to present a special paper about the subject matter at MINDTCE 11.

Further to this, the same expert was invited by the Malaysian Nuclear Agency to conduct a three-day training course on QA/QC for NDT in NPP inspection. It was a very informative and fruitful course where the expert shared his experience of developing an organisational capability to manage NDT during construction, pre-service inspection (PSI) and in-service inspection (ISI) of the plant. The course was attended by 32 participants representing Malaysian Nuclear Energy, Tenaga Nasional Berhad, SIRIM and two NDT services companies.



Participants attending the course with the IAEA expert from Korea, Dr Jong Po Lee

## JSNDI Task Force Meeting, Tokyo 15-17 November 2011

The Malaysian Society for NDT (MSNT) wishes to thank the Japanese Society for Nondestructive Inspection (JSNDI) for its continuous efforts to help countries in the Asia region to advance the application of NDT in industry.

This year, once again, JSNDI invited a representative from the Malaysian Society for NDT (MSNT) along with representatives of Australia, China, India, Korea and Singapore for another round-table meeting at their office in Akihabara, Tokyo.



Members of the meeting representing the NDT societies of Japan, China, India, Australia, Malaysia, Korea and Singapore

In addition to reporting on activities that were implemented as a follow-up to the previous year's meeting, several issues relating to the harmonisation of NDT certification practices in the Asia

region were discussed and debated heavily. A number of actions were identified to be taken by members that were aimed at making harmonisation a reality.



Meeting members at JSNDI's exhibition booth

A visit to an exhibition was also organised, which gave members a chance to see to the latest in NDT technology.

It is hoped that JSNDI will continue to organise such a meeting in line with its role and status as a leading industrial nation in the region.

## MSNT President at the Nuclear Security Conference

The security of radioactive materials, including those used for industrial radiography purposes, has been recognised as a global issue that needs to be resolved by the world community. For this reason, the World Institute for Nuclear Security (WINS) organised a special workshop, entitled 'Sharing best practices for enhancing the security of high activity radioactive sources', on the resort island of Bohol, Philippines, in January 2012.

MSNT President, Dr Adb Nassir Ibrahim, together with three others from Malaysia, was invited to represent the view of members of the NDT community regarding the role that the society can play to enhance the security of radiography sources. These views were presented on the second day of the conference, in a paper entitled 'The role of professional societies for enhancing security of radioactive material'.



Presidents of various NGOs from the Philippines, Malaysia and the United Kingdom

Lessons gained from this conference will certainly be useful for helping the relevant authority in Malaysia to formulate a programme towards enhancing the security of radioactive materials in this country.

MSNT once again thanks WINS for inviting its representative to this prestigious workshop.

## MINDTCE 11 participants congratulated

The Malaysian Society for NDT wishes to congratulate and thank members of all committees, paper presenters, exhibitors, participants and many others who made the 2011 Malaysian International NDT Conference and Exhibition (MINDTCE 11) such a great success.

The two-day event, which took place in Port Dickson from 21-22 November 2011, attracted more than 150 participants from more than 10 countries throughout the world. It was very encouraging to see that more than 50% of participants still remained in the conference room during the closing of the event by the President of the Malaysian Welding and Joining Society.

See you all again at MINDTCE 13.



Opening ceremony by Mr Pramod of PETRONAS



MSNT President presenting a memento to the MWSJ President



Some of the participants in the entrance of the Thistle Hotel



MSNT President presenting a memento to one of the paper presenters



An exhibitor from Nuclear Malaysia explaining the exhibit to the guests of honour



Mr Pramod visiting a booth

## Singapore International NDT Conference a success

The NDT Society of Singapore (NDTSS) successfully organised its largest-scale event since its establishment when the Singapore International NDT Conference and Exhibition took place from 3-4 November 2011.



The Conference President Mr Sze Thiam Siong during his welcome speech

The conference was attended by 130 delegates from all around the world and 29 papers were published in the conference proceedings, with well-known keynote speakers.



Keynote speaker Dr B Venkatraman

An exhibition took place concurrently, with the latest equipment and technologies displayed by 14 exhibitors. A team from APCNDT 2013, India, was there to promote the Asia-Pacific Conference. 170 visitors attended the exhibition over the two days.

NDTSS wishes to thank participants, sponsors, supporting organisations, speakers, volunteers and NDTSS members, who gave their significant contribution to make the event a great success.



Keynote speaker Mr John Thompson



The closing ceremony by Dr Brian Stephen Wong, NDTSS President

## Australian Institute for the Certification of Inspection Personnel Service Award

The Australian Institute for the Certification of Inspection Personnel (AICIP), formed by and for the Australian pressure equipment industry, supports the regulatory needs of industry through the on-going certification of inspection personnel and the promotion of quality plant inspection and maintenance.

Since its formation in 1997, AICIP has approved certification of the skills of inspectors of plant and equipment supporting a vast range of industries Australia-wide. At the end of 2010, over 490 AICIP in-service inspection certifications had been issued and the certification has become highly respected and greatly in demand within industry.

At the WTIA annual awards dinner in Melbourne on 25 May 2011, Mr John Maccarone was presented with a Service Award as one of the many people who have contributed significantly to the establishment, development and success of AICIP.

As a leading non-destructive testing expert working at BP Refinery (Bulwer Island) Pty Ltd, John Maccarone has brought significant wisdom and experience during his ten years' service on the AICIP Management Committee. His practical approach helped to mould the institute into a nationally recognised and efficient certification body for the industry.

Representing the Australian Institute for Non-Destructive Testing (AINDT), and a former President of this significant sister organisation,



John Maccarone receiving a Service Award

John has contributed valuable assistance and guidance to both the AICIP Committee and to secretariat staff at the WTIA.

John is a great advocate of AICIP and its benefits to industry, and has presented papers at industry and technical conferences and meetings promoting the certification scheme.

The successful scheme is a testament to the effort put in by John and his colleagues on the AICIP Management Committee.

## Interlaboratory proficiency tests in Hungary

MAROVISZ, the Hungarian Association for NDT, is organising interlaboratory proficiency tests as a service to its membership as well as other interested laboratories. Since 2009, four tests have been completed in the field of non-destructive evaluation.

In March 2009, an interlaboratory testing procedure was developed, which described all aspects of the preparation, implementation and evaluation of the interlaboratory tests. To date, four tests have been performed and completed in accordance with this procedure. The participation in the interlaboratory tests was open, without limitations, to all Hungarian laboratories as well as to foreign partners from the Central-European region.

MAROVISZ collaborated with the National Accreditation Body (NAB) regarding the interlaboratory tests, informing the managing director of NAB about any forthcoming tests to be published and launched, as well as submitting the approved interlaboratory testing schemes. Upon request from any participant, the approved interlaboratory testing scheme may also be sent to other accreditation bodies specified by the applicant.

The subject of the first interlaboratory proficiency test was ultrasonic thickness measurement. The measurements were performed on a right steel prism as well as on a straight and a bent tube. Thicknesses were to be determined on six designated surfaces with a set of five measurements each. The minimum thickness had to be determined on the same surfaces too.

The measurement results were evaluated using the Z scoring system, as described in Annex A of ISO/IEC Guide 43-1:1997. The assigned values of quantities required for evaluation of the results was determined by statistical means from the data of all participants. 19 participants' proficiency tests were evaluated. All Z scores for these were acceptable.

The subject of the second interlaboratory test was the evaluation of weld radiographs. The film evaluations were performed on

20 radiographs. The radiographs had to be evaluated in accordance with the requirements for acceptance level 1 of EN 12517-1: 2006 'Non-destructive testing for welded joints'. The results were evaluated in accordance with the specifications of the document provided by MAROVISZ, entitled 'Statistical evaluation for an interlaboratory test with detection task'. It describes the use of the ROC diagram, POD curves and demonstration of the reliability of test performance. 18 participants' tests were evaluated.

The subject of the third interlaboratory test was the hardness measurement with portable equipment. The measurements were performed on three steel pieces modelling the hardness of welded joints and their heat affected zones. The assigned values of steel blocks were measured with the Vickers method. The measurement results were evaluated using the Z scoring system. The proficiency tests of the hardness measurement were evaluated in 16 participating laboratories.

The last proficiency test was the most interesting one. An acoustic emission proficiency test was performed using the opportunity of the II Acoustic Emission Symposium at Dunaujváros, Hungary, in October 2011. The subject of the test was the localisation of acoustic emission sources on the surface of a pressure vessel during a burst test. The number and the location of the artificial flaws was unknown to the participants. The measurement results were evaluated using the Z scoring system. The results are currently under discussion and evaluation. A total of five laboratories participated in this exercise.

MAROVISZ prepared a medium-term plan for the future and, as the provider of the proficiency tests, intends to co-operate with laboratories in neighbouring countries, and thus has informed the neighbouring NDT societies about this possibility.

Ferenc Fücsök

Call for Papers

## NDT 2012

11-13 September 2012

Barceló Daventry Hotel, Northamptonshire, UK

Offers of papers are invited on all aspects of non-destructive testing including:

- Rail and Axle Testing • Aerospace • Power Generation • Nuclear • NDT of Food • NDT in Forensic Science •
- Automated and Robotic NDT • Theoretical Modelling • Inspection Qualification • Composites •
- Adhesives and Bonding • Thermography • Ultrasonics • Phased Arrays • Electromagnetics •
- Radiography • Digital Radiography • Digital Signal Processing and Imaging • Novel Techniques •
- Monitoring • Research • Time-of-Flight Diffraction • Technology Transfer in NDT •
- Medical and related NDT • The Needs of NDT Users •

Conference proceedings will be published in the form of extended abstracts (maximum 12 pages of A4 text) and one copy will be provided for each delegate.

Full written papers that are submitted may be refereed with a view to publication in *Insight*.

Abstracts (of no more than 200 words) must be submitted online at:

<http://mc.manuscriptcentral.com/ndt2012>

or via the link on [www.bindt.org](http://www.bindt.org) by **11 May 2012**

Contact: The Conference Department, The British Institute of Non-Destructive Testing, Newton Building, St George's Avenue, Northampton NN2 6JB, UK. Tel: +44 (0)1604 89 3811; Fax: +44 (0)1604 89 3861;  
 Email: [samantha.mussard@bindt.org](mailto:samantha.mussard@bindt.org) or [karen.cambridge@bindt.org](mailto:karen.cambridge@bindt.org)

## INVITATION TO PRAGUE

### - CAPITAL OF THE CZECH REPUBLIC

11<sup>th</sup> ECNDT  
PRAGUE 2014  
October 6 - 10, 2014  
Czech Republic  
EF European Federation for Non-Destructive Testing  
Czech Society for NDT

Prague - the right place to host the 11<sup>th</sup> ECNDT in 2014

11<sup>th</sup> European Conference on Non-Destructive Testing  
[www.ecndt2014.com](http://www.ecndt2014.com)



## PAN-AMERICA

## News from The American Society for NDT

### ASNT's 2011 Annual Fall Conference and Quality Testing Show in Palm Springs enjoyed by all

Palm Springs, California, was the site of the 2011 ASNT Fall Conference and Quality Testing Show, held 24-28 October at the Palm Springs Convention Center. NDT professionals and community members from around the globe met to interact, learn and network in an informative and energetic environment. The 2011 conference had 1665 registered participants, among the highest on record. Attendees represented a diverse group of NDT methods and techniques.

The professional programme was diverse as well, with 92 papers presented in 24 different sessions. The papers presented showcased a variety of NDT techniques and applications, providing participants with some of the most up-to-date information on the NDT industry.

The Quality Testing Show provided a forum for attendees to see the latest in NDT technology, devices and information first hand from 144 exhibitors. Exhibitors discussed and demonstrated their NDT products and applications, and attendees saw the possibilities inherent in the new developments.

The conference opened on Monday morning with a short course on 'The art of phased array data analysis addressing detection, characterisation and finite sizing of welding flaws', taught by Tim Armitt from Lavender International NDT USA, LLC.

The Annual Business Meeting convened on Monday, with 64 members present representing 23 sections. ASNT Secretary/Treasurer Raymond Morasse gave a detailed report on the state of ASNT finances, noting the Society's growth and success despite a downturned economy. Joel Whitaker, the 2010-2011 ASNT Chair, followed with the 'State of the Society' message. Milestones were an important part of the message and Whitaker pointed out that ASNT is now 70 years old, ASNT Recommended Practice No SNT-TC-1A is 45 years old and *The NDT Technician* is 10 years old. As of the end of fiscal year 2011 (30 June 2011), ASNT membership included 11,828 individuals and 554 corporate partners from 96 different countries. Even in an uncertain economy, ASNT had a successful year, much to the credit of hard-working and dedicated volunteer members.

ASNT looked to the future as its student members participated in a career workshop on Monday, and ASNT corporate partner members interviewed the students for possible employment on Tuesday.

Tuesday's events opened with a keynote address from John Nyholt of BP America. His presentation, 'An evolving relationship between NDE technology and inspection operations', examined how hub and satellite operation models have impacted petrochemical inspection strategies, improved their effectiveness and advanced NDT technologies. On Wednesday, current Chair of the Methods Division for the Technical and Education Council and ASNT Past President Joe Mackin, of TEAM Industrial Services, explained the changes being made to the 2011 edition of SNT-TC-1A in a plenary address.

Thursday began with 2011-2012 ASNT Chair Ricky Morgan addressing conference attendees. A member since 1987, Morgan shared his ASNT experiences, insights and challenges. All presentations were well received and well attended as part of this conference's strong professional programme.

Short courses and paper topics designed to educate attendees and stimulate discussion captured attention all week. In addition to Armitt's course, Monday also saw Jennifer Brown, who holds an MS in Statistics from Iowa State University, present 'Applied probability of detection methods', intended to provide a basic

understanding of hit/miss and probability of detection analysis described in MIL-HDBK-1823. John Register, from R-CON NDT Inc, taught a course on 'NDT of composites' and introduced students to composite materials and the techniques used to inspect them, including hands-on training in ultrasonic and bond testing methods.

'Guided wave testing (GWT) in pipeline' was the topic on Wednesday as Sang Young Kim of Guided Wave Analysis LLC introduced the relatively new technique to an audience of maintenance management personnel, inspectors and operators responsible for pipeline integrity. Hussein Sadek from Technologies Consulting International Inc (TCI Inc) followed on Thursday with 'Electromagnetic testing techniques', examining the basic principles and applications of eddy current testing, remote field testing and alternating current field measurements. He also looked at the SNT-TC-1A recommendations for each technique.

On Wednesday night, ASNT members gathered for the Annual Awards Banquet. ASNT recognised its community members for their contributions to the NDT industry and to the Society itself. William W Briody was recognised as the 2011 Phillip D Johnson Honorary Member and Michael Rudy received the Charles N Sherlock Meritorious Service Award. In addition, 10 sections were recognised for their achievements in the 2010-2011 President's Awards Programme.

The presidential collar also changed hands at the banquet, as outgoing president Ricky Morgan passed the title to 2011-2012 ASNT President, Robert J Potter.

The 2011 ASNT Fall Conference and Quality Testing Show granted attendees an extensive and exclusive view of the state of the NDT industry and provided multiple opportunities to participate in its future. ASNT thanks the volunteers and participants who helped make the event a success.

### ASNT invites section leaders to headquarters

Starting with the essential elements to facilitate section programmes geared to the needs of today's ASNT members and prospective members, at the Section Leaders Conference (SLC) the programme will cover how sections handle challenges and develop successful programmes.

Knowledgeable and experienced speakers from the Section Operations Council, headquarters professional staff and ASNT Sections will provide their expertise. This conference is designed for all current and future section leaders and regional directors. Each participant brings value to the programme by sharing experiences and perspectives. SLC provides an excellent opportunity for building a network that has benefits long after the conference concludes. Every new section leader and officer is encouraged to participate.



Section Leaders Conference

June 8 & 9  
Columbus,  
Ohio

SLC will be held at Hyatt Place Columbus/Dublin and ASNT headquarters. The registration fee is \$25 per person. ASNT provides conference materials, activities and transportation to events, and meals for both Friday and Saturday are included.

Register online at [www.asnt.org](http://www.asnt.org). If you have any questions or require more details contact Heather Cowles, email: [hcowles@asnt.org](mailto:hcowles@asnt.org)

## PAN-AMERICA

### Nondestructive Evaluation of Aerospace Materials & Structures III set for St Louis

4-5 June 2012

Nondestructive Evaluation of Aerospace Materials & Structures III brings to the forefront one of the Society's largest membership segments, aerospace – accounting for more than 2,400 members.

The aerospace industry has a large presence in St Louis and the surrounding midwest, making it a perfect location for ASNT's aerospace conference, scheduled for May 2012. In addition to Boeing's R&D unit, Phantom Works, other notable aerospace organisations in the area include: Carr Lane Mfg Co, Sabreliner Corp, GKN Aerospace North America, Thayer Aerospace Inc, Flight Safety International Inc and Smiths Aerospace.



The programme will cover topics related to the maintenance and in-service inspection of aircraft. It will also address material effects on ageing aircraft, including hydrogen embrittlement and fatigue.

Topics to be covered include:

- Impact of NDE on structures and design
- New NDE methods
- Materials characterisation
- In-process/online NDE
- Post-manufacturing quality assurance
- Automated inspection systems
- Adhesive bond-line evaluation
- In-service inspection
- NDE of composite repairs
- NDE standards
- Structural health monitoring
- Nanotechnology in NDE
- Aerospace applications.

### New ASNT Section Charter approved

The ASNT Board of Directors approved a new Section Charter on 20 January 2012 during a meeting in San Antonio, Texas. The Qatar Section is located in Doha, Qatar, and is in Region 19. A banner and charter will be presented to the Qatar Section. ASNT members in the surrounding areas who do not currently affiliate with a Section are invited and encouraged to affiliate with the Qatar Section.

Contact ASNT Member Services by email: [asnt\\_membership@asnt.org](mailto:asnt_membership@asnt.org) or tel: 614 274 6003 to join the Qatar Section. For information on upcoming meeting dates, contact Section Chair Bassam Al-Momani, email: [bmomani@qapco.com.qa](mailto:bmomani@qapco.com.qa) or visit [www.asntrregion19.webs.com](http://www.asntrregion19.webs.com)

### The 17th International Workshop on Electromagnetic Nondestructive Evaluation

**ENDE 2012**

29 July-1 August 2012  
Rio de Janeiro, Brazil

### Orlando, Florida destination for 2012 Fall Conference

The Society looks forward to the 2012 ASNT Fall Conference, which will be held 29 October-2 November at the Rosen Shingle Creek Resort in Orlando, Florida.

The 2012 Fall Conference and Quality Testing Show will provide a forum for the exchange of theoretical, scientific and application information. Participating in this conference will expand your knowledge while increasing your visibility.



Abstracts pertaining to the following topics are being accepted as they relate to industry, applications, processes or materials:

- Automotive
- Aerospace
- Chemical and petroleum
- Composites
- Digital radiography
- Eddy current
- Education and training issues
- Emerging technologies
- General NDT/NDE
- Ground penetrating radar
- Health monitoring
- Homeland security
- Infrastructure
- Laser methods
- Manufacturing
- Millimetre/microwave
- Modelling and simulation
- MT/PT
- NDE for fleet sustainment
- Phased array
- Pipeline inspection
- Radiation safety
- Reliability studies
- Sensors
- Space NDT
- Utilities.

Prospective authors are requested to submit abstracts of approximately 200 words on all NDT methods. Abstracts should be submitted via the ASNT website, [www.asnt.org](http://www.asnt.org), under the meetings and events section or via email to [conferences@asnt.org](mailto:conferences@asnt.org)

The abstract submission deadline is 16 April 2012. Each year ASNT receives numerous abstracts that aren't placed in the programme due to late submission. Don't delay, join ASNT in Orlando for the premier NDT conference and submit your abstract today.

Questions concerning abstracts should be directed to Jacquie Giunta in the ASNT Conference Department, email: [jgiunta@asnt.org](mailto:jgiunta@asnt.org) or tel: 614 274 6003 ext 213.

### Topics to be covered at ENDE 2012 include:

- New developments in electromagnetic NDE.
- Characterisation of materials.
- Advanced sensors and their novel industrial applications in NDE.
- Solutions to NDE inverse problems.
- Biomedical applications of electromagnetic NDE.

<http://ende2012.metalmat.ufrj.br>

## CALENDAR OF NDT EVENTS

<b>Month</b>	<b>Date</b>	<b>Venue</b>	<b>Event</b>	<b>Contact</b>
<b>April 2012</b>	18-20	Durban South Africa	18th World Conference on NDT	saint@acenet.co.za <a href="http://www.saint.org.za">www.saint.org.za</a>
	24-26	Dayton, Ohio USA	2012 Conference of the Society for Machinery Failure Prevention Technology (MFPT)	chris@mfpt.org <a href="http://www.mfpt.org">www.mfpt.org</a>
<b>May 2012</b>	10-12	Beijing China	2012 China (Beijing) International Exposition of Application Technique of NDT	<a href="mailto:jiangkunexpo@163.com">jiangkunexpo@163.com</a>
	21-24	Seattle USA	9th International Conference on Non-Destructive Evaluation in Relation to Structural Integrity for Nuclear and Pressurised Components	9thNDE@epri.com <a href="http://www.9thnde.com">www.9thnde.com</a>
	24-26	Pula Croatia	EUROJOIN 8 – Eighth European Conference on Joining Technology	<a href="mailto:hdtz.cws@fsb.hr">hdtz.cws@fsb.hr</a> <a href="http://www.fsb.hr/hdtz">www.fsb.hr/hdtz</a>
<b>June 2012</b>	12-14	London UK	Ninth International Conference on Condition Monitoring and Machinery Failure Prevention Technologies – CM 2012 / MFPT 2012	<a href="mailto:karen.cambridge@bindt.org">karen.cambridge@bindt.org</a> <a href="http://www.cm-mfpt.org">www.cm-mfpt.org</a>
	18-21	Toronto Canada	4th International CANDU In-Service Inspection and NDT in Canada 2012 Conference	<a href="mailto:events@cinde.ca">events@cinde.ca</a> <a href="http://www.cinde.ca">www.cinde.ca</a>
<b>July 2012</b>	3-6	Dresden Germany	6th European Workshop on Structural Health Monitoring (EWSHM 2012)	<a href="mailto&gt;tagungen@dgzfp.de">tagungen@dgzfp.de</a> <a href="http://www.ewshm2012.com">www.ewshm2012.com</a>
	15-20	Denver Colorado, USA	39th Annual Review of Progress in Quantitative Nondestructive Evaluation (QNDE)	<a href="mailto:kallsen@iastate.edu">kallsen@iastate.edu</a> <a href="http://www.qndeprograms.org">www.qndeprograms.org</a>
	29-1 Aug	Rio de Janeiro Brazil	ENDE 2012 – The 17th International Workshop on Electromagnetic Non-Destructive Evaluation	<a href="mailto:ende2012@metalmat.ufrj.br">ende2012@metalmat.ufrj.br</a> <a href="http://ende2012.metalmat.ufrj.br">http://ende2012.metalmat.ufrj.br</a>
<b>September 2012</b>	11-13	Daventry UK	51st Annual British Conference on NDT – NDT 2012	<a href="mailto:karen.cambridge@bindt.org">karen.cambridge@bindt.org</a> <a href="http://www.bindt.org">www.bindt.org</a>
<b>October 2012</b>	29-2 Nov	Orlando Florida, USA	ASNT Fall Conference and Quality Testing Show 2012	<a href="mailto:conferences@asnt.org">conferences@asnt.org</a> <a href="http://www.asnt.org">www.asnt.org</a>
<b>November 2012</b>	13-15	Augsburg Germany	4th International Symposium on NDT in Aerospace	<a href="mailto&gt;tagungen@dgzfp.de">tagungen@dgzfp.de</a> <a href="http://www.ndt-aerospace.com">www.ndt-aerospace.com</a>