



*The World Organisation for NDT*

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Volume 8 Issue No 7

June 2011

### CHAIRMAN'S MESSAGE

#### Time to look forward

In ICNDT we continually have to balance our efforts towards delivering our current objectives in line with the needs of our members and looking forward to the future.

Already we are less than a year away from the 18th WCNDT in Durban, South Africa, from 16-20 April 2012, and I hope everyone is making their plans now. The news from the organisers – the South African Institute for NDT – is good. Already they have had to extend the exhibition space in response to demand for bookings. The call for abstracts is open. This is probably a once-in-a-working-lifetime opportunity for us all to participate in a World Conference in Africa and it must not be wasted.



ICNDT will hold its General Assembly (and 35th and 36th Meetings) in Durban in conjunction with the conference.

We look forward to welcoming at least eight new members to ICNDT – the approval process is well underway and we will have about 65 members by the turn of the year. Already there has been a call for proposals for the ICNDT Awards to be presented at the conference and a formal request for nominations to the next Executive (Chairman, General Secretary, Treasurer and two elected members). We are keen to maintain the geographical diversity of the Executive, so please consider if your Society has suitable nominees.

The Executive Committee has learned from experience and decided to start the development of the next Strategic Plan now. We are doing this by extending the present plan to 2014 – the mid-term for the next Executive Committee. *All our members are invited to consider what they need from ICNDT* and to let us know ahead of our next Policy (PGP) meeting in Cancún at the Pan-America Conference in October 2011.

Best wishes to all,

Dr J M Farley  
Chairman, ICNDT

### Countdown to the 18th WCNDT in Durban

#### Important dates for your diary

Website for online registration and abstract submission: now open

Deadline for abstract submission: 15 October 2011

Notification of abstract acceptance: 15 November 2011

Preliminary programme: available January 2012

Deadline for full manuscripts: 31 January 2012

Conference: 16-20 April 2012

### Call for Nominations for ICNDT Awards for 18th WCNDT 2012

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. We are announcing the call for nominations in good time to allow our members time to make their own choice of candidates.

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 rules for the awards are set out in Operating Procedure OP4, which can be found on the website [www.icndt.org](http://www.icndt.org). Nominations should be sent to Corinne Mackle ([corinne.mackle@bindt.org](mailto:corinne.mackle@bindt.org)) by 31 July 2011.

The winners in 2008 were:

- **Roentgen:** Professor Vladimir L Chakhlov
- **Runners up:** 1. CIVA – the NDT simulation software; 2. V Vengrinovich and V Artemjev
- **Pawlowski:** Anthony Sonneveld and Gerhard Aufricht
- **Runner up:** Xu Yongchang
- **Havercroft:** Z S Nikiforova, S A Popoudina, S I Zinovjeva and V V Levkovich
- **Runner up:** Nadezhda P Biryukova
- **Sokolov:** Rong S Geng
- **Runner up:** Eduard S Gorkunov
- **Young Achiever:** Andrey Evgenievich



## ICNDT Journal



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Published three times per year.

Editorial contributions are welcomed.

Articles should be sent to Sharon Bond, CINDE. Email: s.bond@cinde.ca

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**The next ICNDT Journal will be published in September 2011**

**Material should be sent to Sharon Bond, email: s.bond@cinde.ca by 29 July 2011**

**Your new ICNDT Journal is available for downloading from [www.icndt.org](http://www.icndt.org)**

### Future ICNDT Committee Meetings

#### Executive

**Fri 8 Jul 2011:** Teleconference (13h30 UK time)

**Apr 2012:** at WCNDT, Durban, South Africa

#### General Assembly

**Apr 2012:** at WCNDT, Durban, South Africa

#### PGP

**Sat 1 Oct 2011:** Cancún

**Apr 2012:** at WCNDT, Durban, South Africa

#### Working Group 1

**Sun 2 Oct 2011:** Cancún

**Apr 2012:** at WCNDT, Durban, South Africa

## Les Dick appointed Executive Officer of AINDT

The Australian Institute of NDT's new Executive Officer Les Dick completed more than twenty-one years in the Royal New Zealand Air Force before moving full-time into his own inspection business, which concentrated on welder qualification and weld inspection, radiography, penetrant and magnetic particle work. The business grew over the years, expanding into general aviation NDT, with more staff and Level 2 qualifications being attained through both ATTAR in



Les Dick

Melbourne and the Air New Zealand/Pratt & Whitney joint venture in Christchurch.

By December 2006, this business was bought out by another New Zealand NDT company, which saw a subsequent job change into a role as an Engineering Manager for the next three and a half years, fabricating everything from freeze dryers to marine vessels and winery infrastructure.

During the period from 1995 to 2006, he became active within the New Zealand NDT Association (NZNDTA), to a point where, in 2001, he attended the 10th APCNDT conference in Brisbane as the then Chairman of the NZNDTA. This led to a life

of international NDT roles and interactions as the NZNDTA worked towards hosting the 2006 APCNDT. His roles have included ICNDT Voting Delegate, Asia-Pacific representative on the PGP and, since 2005, Les has been acting as the NZ NDT National Project Co-ordinator to the IAEA RCA programme.

Leading up to his appointment as AINDT Executive Officer, Les has continued to be active within the NZNDTA, leading the NZNDTA as Chairman from 2001 to 2006 and then holding the EO position since mid 2006, until his move to Australia this March.

Other activities associated with the AINDT included the original negotiation

and set-up of the AINDT Examination Co-ordinator role in New Zealand, in addition to actually performing the role during its initial period under the guidance of both Peter Sheedy and David Barnett. The international relationships which Les has built up during his time in the administration of NDT in New Zealand will be applied to achieve an even stronger international profile for the AINDT, resulting in it being consulted more on regional and international NDT matters. One such example is the current work with the Japanese NDT Institute (JSNDI) on NDT instructor training and harmonisation support for some seventeen developing countries in the Asia-Pacific region.

### International Workshop on Smart Materials & Structures and NDT in Aerospace

to be held in conjunction with

### NDT in Canada 2011 Conference

**2-4 November 2011**

*Holiday Inn Midtown, Montreal, Quebec, Canada*

Contact: Larry Cote, Canadian Institute for NDE, 135 Fennell Ave West, Hamilton, Ontario L8N 3T2, Canada. Tel: +1 905 387 1655; Fax: +1 905 574 6080; Email: events@cinde.ca

[events.cinde.ca](http://events.cinde.ca)

## Doug Marshall retires...

**M**r Douglas J Marshall retired from the Canadian Institute for NDE (CINDE) on 31 March 2011 after forty-three years of volunteer and full-time service. During that time, Mr Marshall was active in many different capacities, including two terms as President of the Canadian Society for NDT (CSNDT) and as a Director of the NDE Institute of Canada. In 2001, through Doug's determination and vision, the two organisations were amalgamated to become the Canadian Institute for NDE (CINDE). Working tirelessly as the Managing Director and later as the President/CEO, he helped CINDE garner national and international recognition as a professional NDT member service organisation delivering world-class training in non-destructive testing, acting as an NRCan and CNSC exam centre while providing an array of other member services.



Douglas J Marshall

Mr Marshall's career includes 30 years with the NDT department at Dofasco Inc (now ArcelorMittal Dofasco), which is recognised for its technical leadership in developing and applying NDT over the last 50 years. His awards and professional recognition include a Fellowship from the CSNDT Ontario Chapter in 1998 and the W E Havercroft award in 1992, which is given to a CINDE member who has made outstanding contributions towards NDT in Canada in any area, including technical, educational or managerial capacities.

He is the immediate Past Chairman of the International Committee for NDT (ICNDT) and was a guiding force in helping ICNDT to become a legal entity and develop a strategic plan. He also served as the Membership Chairman of the ICNDT from 1992 to 2000. In 2004, he was awarded the title of Honorary Member in recognition of his distinguished service within the scope of ICNDT objectives.

As a representative of Canada's national NDT society,

Mr Marshall worked closely with the International Atomic Energy Association (IAEA) on numerous scientific missions to improve the sustainability of NDT and promote it as a profession in developing regions and countries, through the development of NDT training and certification programmes and the auditing of NDT training and certification programmes to ISO standards. Over the last twenty-plus years, these IAEA activities have been conducted in eighty countries on all seven continents.

Other society roles include serving as the President of the 16th World Conference for Non-Destructive Testing in 2004 and working on several committees of the International Standards Organisation (ISO) relating to NDT, including TC 135, SC 7 and the associated Canadian SC-2 Chairman.

In 2007, under his stewardship, a two-year Quality NDE Technician programme was started in partnership with Mohawk College to ensure that employer demands for NDT technicians would be sufficient to meet demand from new economic development and to fill the boomer generation retirement demographic.

"I have enjoyed a long and fulfilling tenure with the Canadian Institute for NDE for over 40 years," Doug commented upon his retirement. "I will cherish forever the many good friendships and professional acquaintances I have made across Canada and around the world. My NDT career will not end abruptly; I plan to work as a CINDE member and volunteer to promote NDT as a chosen profession by improving student awareness at an earlier stage in their lives. The Canadian Institute for NDE has a bright future and I wish the Board of Directors, staff and membership all the best in their future endeavours."

CINDE Chairman, Dennis Domenichini, added: "Doug has been a tireless advocate for Canada's NDT community for so many years, here in Canada and abroad, and for that we all owe him a debt of gratitude. On behalf of the Board of Directors, CINDE staff and members, thank you Doug. Enjoy your well deserved retirement!"

## ...and Larry Cote takes over

**T**he Canadian Institute for NDE (CINDE) is pleased to announce the promotion of Mr Larry Cote CET, CLS, CMRP to President and Chief Executive Officer, reporting to the Chairman of the Board. In his position, Mr Cote will work closely with the Executive Committee and the Board to pursue the goals set out in the CINDE strategic plan.

As Canada's national non-profit membership-based society for the people and companies engaged in the business of non-destructive testing (NDT), the Canadian Institute for NDE has for over 30 years delivered world-class training for NDT and operated a full-service government approved certification test centre, while also providing a host of other member services, to ensure NDT professionals and practitioners can network, stay abreast of new technology and industry news and improve their knowledge.

Mr Cote joined the CINDE in 2007 as a Project Manager and was promoted to Managing Director in 2010. Prior to that he worked for 30 years at Dofasco Inc (now ArcelorMittal Dofasco) in a variety of positions, including Lubrication Lab Supervisor, Quality Improvement Project Manager, Senior Reliability Specialist and Team Leader of the Predictive Technical Services department.



Larry Cote

Mr Cote has served in a wide variety of roles with technical societies, including STLE, ICML, AISE, ISO, ASTM and SMRP, and has significant experience in the development and delivery of personnel certification programmes. He served as a founding member of the Certified Lubrication Specialist (CLS) Committee for the Society of Tribologists and Lubrication Engineers (STLE), and as a founding member and Chairman of the Certification Committee for the Certified Maintenance and Reliability Professional (CMRP) designation offered by the Society for Maintenance and Reliability Professionals (SMRP), which is an ANSI-accredited programme.

Mr Cote has also worked as a Training Instructor for over 20 years, delivering a variety of continuing education and full-time courses for Mohawk College and Northern College in Ontario and Northern Lakes College in Alberta. Throughout his career, he has delivered hundreds of presentations at national and international conferences, workshops and seminars.

"We are very pleased to make this announcement; Larry has been a great addition to the CINDE team to help focus the direction of the company," stated Dennis Domenichini, Chairman of the Board. "His lengthy technical background from one of the most successful steel companies in North America and extensive experience with training, certification and many technical communities will help us to further expand our reach and improve the value of our member services."

## AFRICA

## Facts about the 18th WCNDT in Durban

It is all systems go for the 18th World Conference on Non-Destructive Testing, which will be held in Durban, South Africa, from 16 to 20 April 2012.

The following information is of great importance at present:

1. The website for submission of abstracts is live and can be accessed at the following site: [www.wcndt2012.org.za](http://www.wcndt2012.org.za)
2. The deadline for the submission of abstracts is 15 October 2011.
3. People who have submitted abstracts will be informed by 15 November 2011 of the acceptance of the proposed paper into the scientific programme of the conference.
4. The full paper must be submitted by 31 January 2012 for inclusion in the CD of the proceedings.
5. Abstracts received from accepted speakers who will have paid

the conference fee by 31 January 2012 will be included in the scientific programme. The full papers will, however, not be included in the proceedings. Publication of the full paper will be possible on [www.ndt.net](http://www.ndt.net)

6. To date, 8000 m<sup>2</sup> of exhibition space has been sold. Only 20 exhibition stands (3 m by 3 m) are at present still available. Should you require exhibition space, please contact the responsible personnel on [www.wcndt2012.org.za](http://www.wcndt2012.org.za) as soon as possible.

We look forward to meeting all of you in Durban at the 18th WCNDT.

*Manfred Johannes  
SAINT President*

## And the countdown continues...

The organisation of the 18th World Conference on Non-destructive Testing (18th WCNDT) is proceeding at a rapid pace, and all indications are that it is going to be a roaring success.

The conference will be taking place in Durban, South Africa, between 16 and 20 April 2012. This is a very pleasant time of the year weather-wise and delegates can expect a great professional and sensual treat. The venue for the conference is the International Convention Centre in Durban, an ultra-modern facility with lecture theatres and exhibition floor space able to accommodate even the largest conventions. It is a short walk from the beach, where there is a variety of hotels and self-catering establishments to suit one's pocket.

A professional organisation, The Conference Company, is being used to handle the administrative details such as registrations, managing the database for abstracts etc, and they will also be able to make accommodation bookings for delegates at reduced rates that they are able to negotiate with the hotels.

The general area of the Convention Centre and beach-front has been considerably upgraded in recent years and has become an attractive tourist magnet. Durban is a natural gateway to many tourist attractions, such as game parks, coastal areas and the majestic Drakensberg. The city itself is a cosmopolitan place, projecting Zulu pride, western culture and a strong oriental influence.

The present plans for the conference structure call for a mid-morning invited talk of one hour on each day and contributed talks of 20 minutes in parallel sessions, as well as poster sessions. A number of invited speakers have confirmed so far. See above for the important dates.

The broad theme of the 18th WCNDT is: 'NDT in the Service of Society, in Safety Assurance, Quality Control and Condition Monitoring'. In specific terms, this translates into the following subject areas:

- General topics such as training and certification, regulation and standardisation.
- NDT applications in transport, civil structures, mining, power

generation and the chemical, steel and wood pulp industries.

- Africa-specific NDT problems and applications. It is the intent to include a one-day session devoted to the AFRA 5th African NDT Conference.
- Materials' characterisation.
- Condition monitoring.
- R&D in electromagnetic, optical, radiographic, thermographic and ultrasonic NDT techniques.

Negotiations are continuing with Drs Baldev Raj and Venkataraman from India regarding the running of a pre-conference workshop on Advanced Digital Imaging Techniques on the weekend prior to the conference, and a possible workshop on NDT for Regulators. We have had a local offer to run a practical workshop, which would be aimed at relative newcomers to the field. Offers from individuals or organisations to run mini-symposia on specific topics, to be accommodated within the programme of the conference, will be considered.

Technical tours to a number of industrial and other sites where NDT is featured are being planned and there will also be a social programme for delegates and accompanying persons.

Authors will be invited to submit electronic files of their papers for inclusion in the Conference Proceedings, which will be provided to the delegates at the conference on CD and be made available online. Information on the length and format of the papers will be posted on the conference website, and the manuscript submission deadline for inclusion on the CD will be 31 January 2012.

Much effort is at present going into the marketing and promotion of the 18th WCNDT. The President, Manfred Johannes, Chairman, Hugh Neeson, and Chairman of the Marketing Committee, Butch Davies, have attended or will be attending a number of international conferences, including the Indian conference NDE-2010, and conducting a publicity campaign for the 18th WCNDT. The Marketing Committee is also energetically approaching a range of companies dealing in NDT supplies, NDT service providers and the users of NDT services for sponsorship and exhibiting.

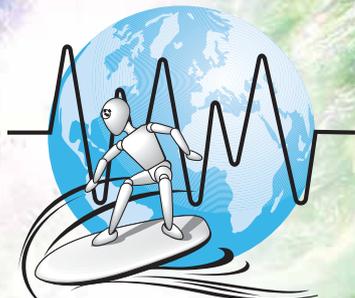
The conference website is <http://www.wcndt2012.org.za>

The conference is being run under the auspices of the South African Institute of NDT. Tel: +27 11 719 5717; Email: [saint@saint.org.za](mailto:saint@saint.org.za); website: <http://www.saint.org.za>

Management: The Conference Company. Tel: +27 31 303 9852; email: [deidre@confco.co.za](mailto:deidre@confco.co.za)



The ultra-modern International Convention Centre in Durban, venue for the 18th World Conference on Non-Destructive Testing



# 18<sup>TH</sup> WCNDT

DURBAN · SOUTH AFRICA · 2012

World Conference on Non Destructive Testing



THEME

NDT IN SERVICE OF SOCIETY -  
in safety assurance, quality  
control and condition monitoring.

16 - 20 April 2012  
International Convention  
Centre, Durban,  
South Africa



**Contact Details:**

Local Conference Secretariat  
The Conference Company, South Africa  
Tel: + 27 31 303 9852 Fax: + 27 31 303 9529  
Nina Freysen-Pretorius / Deidre Hancke-Haysom  
nina@confco.co.za / deidre@confco.co.za

Conference Website: [www.wcndt2012.org.za](http://www.wcndt2012.org.za)

ASIA-PACIFIC

News from The Malaysian Society for NDT

IAEA/RCA course on digital industrial radiography

Following previous success in organising courses related to digital industrial radiography, the International Atomic Energy Agency (IAEA) and the Regional Cooperative Agreement (RCA) have once again bestowed the honour of hosting a Regional Training Course on Malaysia.

The event will take place from 21-25 July 2011 at Nuclear Malaysia and is expected to attract key personnel from within the RCA member states.

It also encourages growth in the application of digital radiography in the region.

Online NDT Certification Management System by NCB

In view of increasing demand for certification, the National Certification Body for NDT, namely the Department of Skill Development, Ministry of Human Resources, has recently introduced an online certification and examination management system.

The system includes facilities from registration of candidates (fresh, reseat and recertified candidates) up to the award of a certification of competency. It also provides facilities to retrieve data regarding candidate background, generation of examination result slips, publication of certificates and statistical analysis of the performance of candidates in each examination. It is expected that such facilities will help to identify the suitability of questions and, in general, will be able to speed up the process of certification.



Familiar faces in Malaysian qualification and certification for NDT personnel. The online system will help to speed up the certification process

SIRIM QAS authorised as Inspecting Authority

SQAS has been authorised by the Department of Occupational Safety and Health Malaysia (DOSH) as the Inspecting Authority under the Fourth Schedule of the Factories and Machinery (Steam Boiler and Unfired Pressure Vessel) Regulations 1970.

With this authorisation, SQAS, led by Malaysian NDT expert Mr Shamsudin Deraman, provides third-party and verification services on welded or non-welded structures and components on behalf of owners or employers during construction, in-service and shut down for independent reporting. Verification services include any technical matters related to NDT.



Official logo of SIRIM QAS

Malaysia International NDT Conference and Exhibition 2011 – 22-23 November 2011

Once again, the Malaysian Society for NDT (MSNT) is organising this most important event for members of the NDT community in Malaysia. As part of its efforts to make it more effective, this time MSNT has chosen to work together with the Malaysian Welding and Joining Society (MWJS) in organising the event.

It is a well known fact that welding and NDT have worked hand-in-hand to steer the national industrial economy. This is particularly evident in the construction, oil & gas, power, petrochemical, transportation, manufacturing and many other industries, where it is the norm that the performance of welding and its associated processes will be ultimately verified using appropriate NDT techniques.

This conference is a continuation of MSNT efforts to highlight the need to have powerful NDT methods for sensing and characterising defects in components and the need to strengthen NDT technology to meet the demands of its industries. The success of its previous conference, MINDTCE '09, inspired MSNT to continue this effort to organise MINDTCE '11. The society believes that only through this conference will members of the NDT and welding communities have the opportunity to gather and present their views and discuss the common problems and solutions related to their professions. Furthermore, through this conference, participants will gain knowledge on various activities that take place around the world that lead to the standardisation and harmonisation of NDT and welding practices.

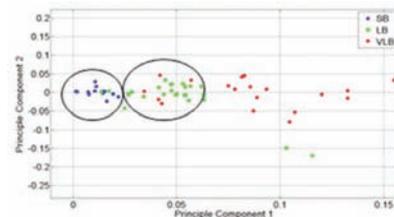
For further information, contact Dr Abd Nassir Ibrahim, email: nassir@nuclearmalaysia.gov.my

Investigation of elastic deformation of API5L X70 steel using acoustic emission technology and principal component analysis: Malaysian Acoustic Emission Group, UKM

Members of the Malaysian Acoustic Emission Group (MAEG) of MSNT and the Universiti Kebangsaan Malaysia have successfully investigated the behaviour of API5L X70 steel under elastic deformation. Tensile testing was conducted using a Zwick/Roell universal testing machine. During the tensile testing of the API5L X70 steel, acoustic emission signals were collected using a wide-band piezoelectric sensor, SE2MEG-P, and an AE analyser, AMSY-5, from Vallen System.

After thorough analysis of the captured AE signals, the signals can be divided into three main groups based on their duration. The groups were denoted as short burst (SB), long burst (LB) and very long burst (VLB), respectively. The SB and LB groups dominated at the initial stage of the elastic region and the VLB groups mostly appeared during the final stage of the elastic region. It is expected that the SB and LB signals were initiated from the localised deformation in a single grain. Furthermore, the VLB signals could originate from the mechanism of local plastic formation around inclusions, which are capable of generating high AE energy.

The SB, LB and VLB AE signals can be successfully grouped using the clustering technique based on principal component analysis.



Classification of the AE signals based on principal component analysis

## Call for Papers

### Singapore International Non-Destructive Testing Conference and Exhibition

# SINCE 2011

*3-4 November 2011* | *Singapore*

## 'NDT FOR A SAFER WORLD'

SINCE 2011 invites authors from all around the world to submit abstracts covering the following topics:

All non-destructive testing methods, including radiographic, ultrasonic (manual, TOFD, phased array, LRUT), magnetic particle, penetrant testing, eddy current, thermal infrared, acoustic emission, vibration analysis, neutron radiography, computed tomography, ground penetrating radar and impact echo testing, for the following application fields:

- Aviation & space research
- Energy
- Petrochemical
- Oil & gas
- Offshore engineering, marine and shipbuilding
- Building and construction
- Research and innovation
- Training and certification
- Medical and bio engineering.

#### Organised by:

Non-Destructive Testing Society  
(Singapore)

#### Co-operating organisations:

Nanyang Technological University  
(NTU)  
National University of Singapore  
(NUS)



#### How to submit your abstract:

Please visit the website:  
<http://www.ndt.net/events/index.php?eventid=15>

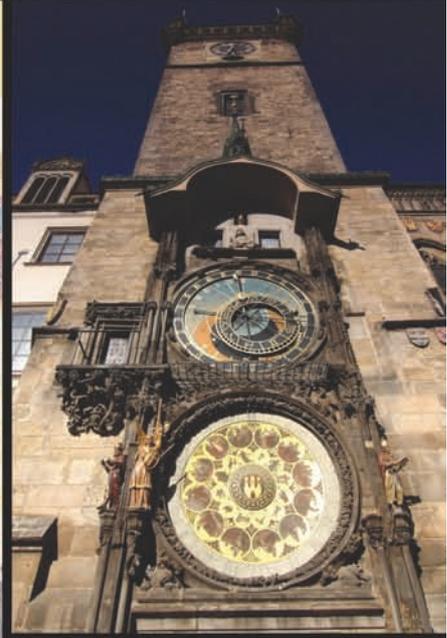
Register as an author and submit the abstract:  
**'Please email abstracts to [ndtss@live.com.sg](mailto:ndtss@live.com.sg)'**

Abstract submission:  
**Open until 30 June 2011**  
Notification of acceptance of abstracts: **31 July 2011**

EUROPE

# 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  
**NDT**



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 20th Annual Research Symposium & Spring Conference is a success in San Francisco**

ASNT's 20th Annual Research Symposium was held from 21 to 25 March 2011 in San Francisco, California. The symposium provides the venue in which the non-destructive testing and evaluation community has the opportunity to present and discuss the latest developments in research and technology. Colleagues from around the world attended this year's symposium and were not disappointed by the extensive span of topics that was covered. The 2011 Research Symposium excelled, with 398 attendees filling the conference rooms to listen to 64 featured papers in 17 sessions, as well as visiting the 31 exhibitors. The Research Symposium was the site of energetic participation in a variety of activities, including an impressive research programme, informative exhibits, special lectures and productive committee meetings.

Robert J Scoble presented the keynote address. Scoble is the Managing Director of Aircraft Inspection and Regulatory Control (Chief Inspector) at United Services, which is a division of United Airlines. His presentation, titled: 'Inspection Process Changes', discussed the incredible importance of safety in the aviation industry, as well as the changes that have enabled newer and more effective techniques to increase safety inspections throughout the industry. These changes include new equipment, new technology and new ways of thinking. As the tools and aircraft become more complex, technicians and maintenance techniques must constantly be evolving to stay ahead of any possible issues. Scoble also pointed out that these new techniques must also be shared throughout the aviation industry to ensure that all companies and technicians are working to maintain the same level of safety.



Colleagues from around the world attended this year's Annual Research Symposium

The professional programme covered a wide expanse of research fields, including thermography in the aviation industry, probability of detection, air-coupled ultrasonic testing (UT), phased array implementation, ground penetrating radar (GPR) in bridges, reliability, 3D scanning, guided wave technology, aviation-specific training and more.

David Hsu of Iowa State University, who received the ASNT Research Award for Sustained Excellence, spoke on 'Innovations on the Cheap for Ultrasonic and Composite NDE'. Hsu described how innovative techniques and ideas have helped form his personal journey through 30 years of NDT research. Many of these approaches used inexpensive materials and devices, of which Hsu presented a selected group of research results. He also described the NDT problems and industrial relevance that motivated the innovations that formed his career with NDT.



David Hsu (left) receiving the ASNT Research Award for Sustained Excellence from Morteza Jafari

Jim Partridge, President of the Smith-Emery Company, gave a plenary address, titled: 'Post Northridge Earthquake: Innovation Challenges in the Construction Industry'. Partridge discussed how the Northridge California earthquake of 1994 caused a significant re-evaluation of design procedures for steel buildings. His presentation explored the possible reasons for full disclosure of the root cause of the damage that resulted as well as the absence of incorporation of proper analytical techniques to create safer steel buildings.

The 2011 Research Symposium was a success by all accounts and ASNT hopes the NDT/NDE community looks forward to next year's symposium, which will be held in Dallas, Texas, from 19-23 March 2012.

**Be part of ASNT's 2011 Fall Conference and Quality Testing Show**

See the *NDT Industry Bloom in the Desert* at the ASNT Fall Conference and Quality Testing Show, being held at the Palm Springs Convention Center in Palm Springs, CA, USA, from 24-28 October 2011. The 2011 Fall Conference and Quality Testing Show will provide a forum for the exchange of theoretical, scientific and application information.

Start your planning now to be part of ASNT's 2011 Fall Conference professional programme by submitting an abstract for consideration. While the original deadline of 15 April has passed, the Programme Committee is still accepting abstracts for review. Check the ASNT website for deadline extension details.

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. Abstracts may also be submitted via email to [conferences@asnt.org](mailto:conferences@asnt.org). Questions concerning abstracts should be directed to Jacquie Giunta in the ASNT Conference Department, email: [jgiunta@asnt.org](mailto:jgiunta@asnt.org) or tel: 800 222 2768 ext 213.

**ASNT Conferences 2012**

**19-23 Mar: 21st Annual Research Symposium and Spring Conference**  
Sheraton Dallas Hotel, Dallas, Texas

**29 Oct - 2 Nov: Fall Conference and Quality Testing Show**  
Rosen Shingle Creek, Orlando, Florida

## News from The Brazilian Association of Non-Destructive Testing and Inspection

### RADIO 2011 held in Recife

From 17-20 May, the Sociedade Brasileira de Proteção Radiológica (SBPR) [Brazilian Radiological Protection Society] and the Sociedade Portuguesa de Proteção contra Radiações (SPPCR) [Portuguese Society of Radiation Protection] organised, in conjunction with Abendi, the RADIO 2011 Conference. Held in Recife, the event was a combination of the II Congresso de Proteção contra Radiações dos Países de Língua Portuguesa [II Congress of Radiation Protection in Portuguese Speaking Countries], the V Congresso Internacional de Radioproteção Industrial [V International Congress of Industrial Radiation Protection] and the II Congresso Brasileiro de Proteção Radiológica [II Brazilian Congress of Radiological Protection].

The objective was to gather radiological protection professionals to discuss and promote an exchange of experiences related to the application of ionising radiation in industry, in medicine and in research. Besides X-rays, the scope also included neutron radiation and protection against non-ionising radiation, in the defined themes: radiation protection in industrial applications, environment, nuclear industry, gas and petroleum industry, application of nuclear techniques in scientific research, metrology of ionising radiation, transport of radioactive material, nuclear law, legislations and standards, training and education etc.

For more information, access <http://www.sbpr.org.br/IICongresso.asp>

### New standards for NDT professionals

ABNT has published standards for A-scan type ultrasound testing instrument calibration and vibration analysis terminology:

- **ABNT NBR 15922** (published 8 Feb 2011): specifies methods and acceptance criteria for electric performance determination of analogue and digital ultrasound instruments operating in the A-scan presentation mode, employed for manual non-destructive testing with simple or double transducers, operating in the central frequencies between 0.5 MHz and 20 MHz.
- **ABNT NBR 15928** (published 10 Mar 2011): defines more than 200 terms employed in vibration monitoring with corresponding definitions.

The documents are available for acquisition on the website: [www.abntcatalogo.com.br](http://www.abntcatalogo.com.br)

### Abendi and Russian Association sign cooperation agreement

The Russian Society for Non-Destructive Testing and Technical Diagnostics (RSNTTD) and the Associação Brasileira de Ensaios Não Destrutivos e Inspeção (Abendi) [Brazilian Association for Non-Destructive Testing and Inspection] have signed a cooperation agreement that foresees, among other measures, progress in the NDT field, the constant development of the training and certification of specialists in this area, including harmonisation with the European system, and the prioritisation of quality and improvement of industrial production.

Moreover, the development of a security system for objects and technological structures is covered, as well as the organisation of conferences, symposia and technical workshops, and the publication of all these activities through monographs, scientific and technical magazines, and guides, among others.

The partnership can be renewed after five years, as from the execution of the agreement.

### Gabrielli is honoured with the Abendi Award

Honoured for his work and dedication to the development of national industry, and consequently for the incentive to new technologies and non-destructive testing and inspection, the President of Petrobras, José Sérgio Gabrielli de Azevedo (PhD), recently received the Abendi Award 2010 through his assessor and representative, Mr Sydney Granja.

The Abendi Award was established in 1999, aiming to recognise professionals that constantly work with the Association, mainly with the improvement and dissemination of NDT and inspection in the national and international scope.

"I proudly receive the homage of Abendi, a nationally comprehensive entity and a partner of Petrobras. As the president of one of the biggest energy companies in the world, I know the importance of Abendi's work in the improvement and dissemination of new technologies. I thank the Board of the entity for this award, which is an acknowledgement of the competence and determination of Petrobras's technical staff," he stated.

### ABNT approves the creation of a commission for electromagnetic inspection

With the purpose of developing national technical standards for electromagnetic inspection, ABNT has approved the creation of a commission of study in this area.

Electromagnetic inspection is adequate for steel cables and currently has great importance due to the evolution of civil construction and other sectors.

This testing is applied in different situations, for instance in the cable cars of Pão de Açúcar in Rio de Janeiro, the cable cars of industries, steel mills and mining companies all over the country, in gas and petroleum areas, as well as in the activities of companies that deal with onshore and offshore transport of cargos.

### Publication of The British Institute of NDT is available in Abendi's library

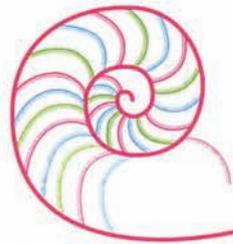
The British Institute of Non-Destructive Testing has donated to Abendi a copy of its publication Vibration Monitoring & Analysis Handbook, by the author Simon R W Mills.

The work, available for consultation in Abendi's library, contains comprehensive explanations and graphics, applications, practices and case studies. It is a reference material for beginners and professionals and for those who wish to consult updated information. It offers a basis for training, aiming at the qualification and certification required by ISO 18436.

### Abendi carried out the 100th Certification Board Ordinary Meeting

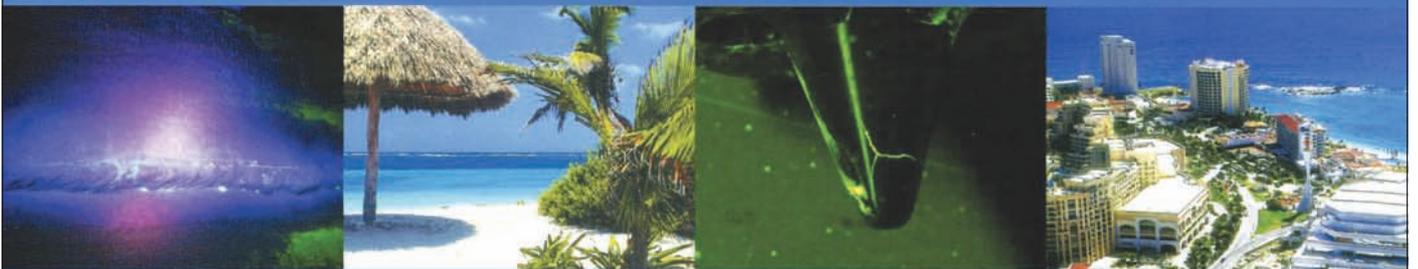
At the end of last year at its headquarters, Abendi held the 100th Certification Board Ordinary Meeting, presided over by Petrobras Engineer Luiz Cesar de Almeida.

The following gentlemen attended the ceremony: Geraldo Carlos Pedrosa de Castro (Petrobras); Robson Manao, representing Marcelo Fritz (TenarisConfab); Luiz Fernando C Ferreira (Furnas); José Carlos Paioli (Serv-END); Maurício Dias Cardoso (Auxílio); José Alfredo Bello Barbosa (FBTS); Ronaldo Pollis (CNEN); and other Abendi collaborators, among them Carlos Madureira (President), João Conte (CEO of Abendi and Secretary of the Certification Board), João Rufino Teles Filho (RAC's Executive Manager) and Edson José Eufrásio (current President).



V CONFERENCIA  
PANAMERICANA DE  
**ENSAYOS NO DESTRUCTIVOS**  
2 AL 6 DE OCTUBRE 2011 CANCÚN, MÉXICO

CONFERENCE AND EXHIBITION  
PLUS MEETINGS OF ICNDT PGP AND WG1



CANCÚN, MÉXICO, OCTUBRE DE 2011

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## CALENDAR OF NDT EVENTS

Month	Date	Venue	Event	Contact
June 2011	13-14	Valencia Spain	CERTIFICATION 2011 – the 6th International Conference on Certification and Standardisation in NDT	informacion@aend.org www.aend.org
	15-17	Valencia Spain	12th National Congress of the Spanish Society for NDT (AEND)	informacion@aend.org www.aend.org
	19-24	Blacksburg Virginia, USA	12th International Symposium on Non-Destructive Characterisation of Materials	jcduke@vt.edu
July 2011	11-13	Oxford UK	9th International Conference on Damage Assessment of Structures – DAMAS 2011	conferences@iop.org www.damas2011.org
September 2011	7-9	Edinburgh UK	International Conference on Advances in Experimental Mechanics: Integrating Simulation and Experimentation for Validation (ISEV)	johnedwards@bssm.org www.bssm.org/conf2011
	13-15	Telford UK	Materials Testing 2011 Exhibition and NDT 2011 Annual British Conference on NDT	cindy.bailey@bindt.org www.bindt.org
	19-21	Ioannina Greece	5th International Conference on Emerging Technologies in NDT	etndt5@cc.uoi.gr www.etechn-ndt5.uoi.gr
October 2011	2-6	Cancún Mexico	5th Pan-American Conference for Non-Destructive Testing	info@copaend5.com www.copaend5.com
November 2011	2-4	Montreal Canada	International Workshop on Smart Materials & Structures and NDT in Aerospace and NDT in Canada Conference	events@cinde.ca events.cinde.ca
	2-5	Split Croatia	MATEST 2011 International NDT Conference	hdkbr@hdkbr.hr www.hdkbr.hr
	3-4	Singapore	SINCE 2011 – Singapore International Non-Destructive Testing Conference and Exhibition	ndtss@live.com.sg www.ndtss.org.sg
	9-11	Ostrava Czech Republic	Defektoskopie 2011 – 41st International Conference and Exhibition	cndt@cndt.cz www.cndt.cz
March 2012	19-23	Dallas Texas	21st Annual ASNT Research Symposium and Spring Conference	conferences@asnt.org www.asnt.org
April 2012	18-20	Durban South Africa	18th World Conference on NDT	saint@acenet.co.za www.saint.org.za