



The World Organisation for NDT

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Volume 8 Issue No 2

September 2009

CHAIRMAN'S MESSAGE

What can ICNDT do for you?

ICNDT exists to promote the science and practice of NDT globally for the benefit of mankind. After spending rather a lot of energy on re-organising and establishing ourselves as a non-profit legal entity registered in Vienna, we now have the opportunity to turn our efforts to more important tasks. With this in mind, the new ICNDT Executive Committee (IEC), elected during the 17th World Conference, has been to work on the ICNDT Strategic Plan for 2009-2012.

Starting at our meeting in St Louis, kindly hosted by ASNT during its Spring Conference, members of the IEC have analysed the strengths and weaknesses of ICNDT and looked at the opportunities before us. This has led to a set of strategic actions which are collected into themes:

- Support for NDT Societies;
- Promotion of the importance of NDT, better links to external bodies;
- NDT Qualification and Certification;
- NDT Education;
- NDT Research.

We intend to complete the Strategic Plan in time to submit it for approval to the Policy and General Purposes committee meeting, to be held during the Asia-Pacific NDT Conference in Yokohama, Japan, on 8 November 2009. Afterwards, we will publish the plan on the ICNDT website.

If you have views on what ICNDT can do for your organisation or your national NDT Society, please email us via our Secretary, David Gilbert (david.gilbert@bindt.org).



17th WCNDT, Shanghai

The ICNDT Executive Committee are delighted to acknowledge the receipt of a donation of 25,000 Euros from the Chinese NDT Society following the successful World Conference in Shanghai in October 2008.

Update on harmonisation of third party certification

I am delighted that the *ICNDT Guide and Recommendations for Qualification and Certification of NDT Personnel according to ISO 9712 and Aligned Standards* has been published (see separate article in this issue of the *ICNDT Journal*).

The ICNDT held a workshop on harmonisation of third party certification in Shanghai (see last *ICNDT Journal*). ICNDT officers were requested to engage closely with ISO TC 135 Sub-Committee 7 and CEN TC 138 to urge the harmonisation of ISO 9712 and EN 473.

ICNDT has applied for full liaison membership (Liaison A) of ISO TC 135 and I am pleased to report that ISO TC135 members have voted unanimously to accept ICNDT as a Liaison A member. This continues ICNDT's close relationship with ISO and fits well with its objectives to work more closely with TC135 to encourage harmonisation, following the recommendations from the last ICNDT meeting. We will be represented at the joint meeting of the two committees in Madrid on 17 September 2009.

Regional Conference

Finally, best wishes to colleagues in the Asia-Pacific region for a successful APCNDT in Yokohama in November, and a reminder that the next European Conference will be held in June 2010 in Moscow. Two very interesting places to visit and two important conferences. Don't miss the opportunities they offer!

Dr J M Farley
Chairman, ICNDT



ICNDT Journal



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The next ICNDT Journal will be published in December 2009
Material should be sent to Sharon Bond, email: s.bond@cinde.ca by 30 October 2009

**Future ICNDT
 Committee Meetings**

Executive
29 September 2009
 Teleconference
 20h00 British Summer Time
 (GMT +1:00)

PGP
8 November 2009
 Yokohama, Japan

2011
 Cancun, Mexico

General Assembly
2010
 Moscow, Russia

2012
 Durban, South Africa

ICNDT Guide and Recommendations for Qualification and Certification of NDT Personnel according to ISO 9712 and Aligned Standards

Background

The competence of those carrying out non-destructive testing is an essential pre-requisite for the achievement of quality and reliability. Qualification and certification of NDT personnel in accordance with International Standards such as ISO 9712 (Non-destructive testing – Qualification and certification of personnel) and aligned standards helps to ensure that people are competent and assists global business and safety standards.

The ICNDT, with a track record of 45 years in international cooperation in NDT, is dedicated to supporting best practice in the implementation of these standards through this Guide, which will be available via the ICNDT website.

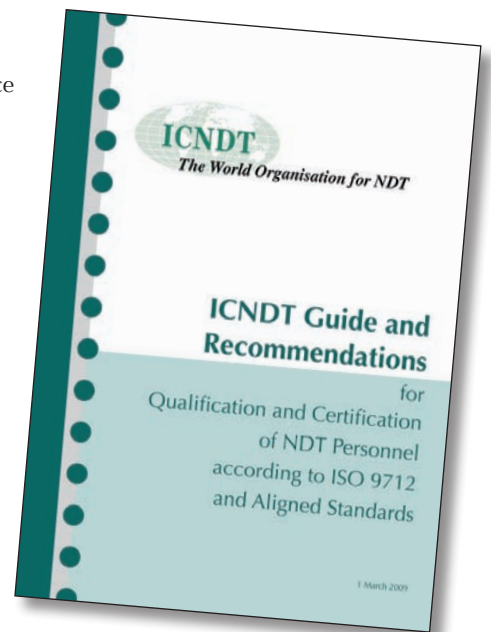
The original Guide 'ICNDT Recommended Guidelines for Qualification and Certification of NDT Personnel according to ISO9712' was published in June 2004 at the 16th WCNDT in Montreal and was based on a first draft produced by Mr Nardoni and circulated for comment in June 2002. The 2009 update has been prepared following a mandate from the ICNDT Policy and General Purposes meeting in Anaheim in March 2008 and was presented to the ICNDT meetings at the 17th WCNDT in Shanghai. It is approved for publication by an Editorial Committee comprising Douglas Marshall, Mike Farley, Giuseppe Nardoni, John Thompson, Wayne Holliday, Nori Ooka, Dave Barnett and João Conte.

Outline of the Guide

- The prime purpose of this Guide – which has been prepared under the auspices of the International Committee for Non-Destructive Testing (ICNDT) – is to promote best practice in the qualification and certification of NDT personnel according to the International Standard ISO 9712, as well as other aligned standards such as European Standard EN

473 and ANSI/ASNT-CP-106. The competence of NDT personnel is a key element in achieving reliability of NDT and is vital to ensure the quality and safety of products and installations.

- The ICNDT Guide is of importance to all the tiers in the management of NDT operations – regulators, inspection bodies, certification bodies, industry, NDT service companies and supervisors of NDT personnel. Sections 2, 3, 4, 5 and 6, supplemented by Appendices 1 to 6, provide information and guidance on ISO 9712 and aligned standards. Section 7 provides specific recommendations from ICNDT. Appendices 7, 8 and 9 provide related information on ICNDT and methods of NDT.
- The ICNDT has promoted worldwide dissemination of NDT technologies and the harmonisation of personnel certification



schemes for more than 45 years. The decision by ICNDT to promote the adoption of ISO 9712 as a basic standard for third party qualification and certification of NDT personnel arose from the need to achieve a more consistent standard of basic knowledge and practical competence. Such standardisation becomes ever more important as globalisation of trade increases.

- The central place of ISO 9712 among standards for third party certification is explained in Section 4 and the historical development of NDT personnel certification and ICNDT's role is described in Appendix 7.
- Correct use of third party qualification and certification of NDT personnel is dependent on the employer of personnel recognising his own responsibilities. This is important in terms of good quality management practices (outlined in the ISO 9000 family of standards), product liability, meeting the requirements for accreditation and meeting the requirements of product standards and codes such as the ASME Boiler and Pressure Vessel Codes and the European Pressure Equipment Directive (97/23/EC). An explanation of the employer's responsibilities is given in Section 3.
- In each of the regions where ICNDT has members (Africa, the Americas, Europe, the Middle East and the Asia-Pacific region), ISO 9712 has been adopted as a basis for third party certification schemes. For example, Brazil has an accredited certification scheme which complies with ISO 9712, and Canada has a certification scheme based on the standard. In the USA, ASNT has introduced ANSI/ASNT Standard CP 106, which is closely aligned with ISO 9712. Many other countries in Latin America, Uruguay, Peru, Bolivia, Colombia and Venezuela, are developing national schemes based on ISO 9712, and Argentina also has an accredited certification scheme which complies with ISO 9712. In the Asia-Pacific region, Australia, India, Japan, Indonesia and China, among many other countries, have introduced or are developing schemes based on ISO 9712. In Europe, a large number of countries have schemes which comply with ISO 9712 and the closely aligned European Standard EN 473. A listing of certification schemes and their current status is provided in Appendix 3.
- The international NDT community is endeavouring to promote international recognition of third party certification schemes. A number of recognition arrangements (unilateral, multilateral and bilateral) exist. Details are given in Appendix 4. In many countries in the world, certification bodies which provide ISO 9712 certification have gained accreditation or approval by government agencies or accreditation bodies in both voluntary and regulatory sectors. This is discussed in Section 5.
- It is hoped that, in due course, the presently separate ISO 9712 and EN473 standards will merge into a single International/European Standard but, in the meantime, many certification bodies choose to comply with both Standards in order to provide the maximum benefit to their stakeholders.

Contents of the Guide

Forewords by Mike Farley, Chairman, ICNDT, Professor Hatano, ISO/TC 135 Chairman and Douglas Marshall, Chairman PGP and Editorial Committee

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2. International Standard ISO 9712 (2005) Non-Destructive Testing – Qualification and Certification of Personnel
3. ICNDT Requirements of Technical Knowledge of NDT Personnel
4. Advantages of Third Party Qualification and Certification to ISO 9712
5. Accreditation of Certification Bodies
6. Employer Responsibilities when using Third Party Certification
7. ICNDT Recommendations

Appendices

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- Appendix 2: Non-destructive testing under the European Pressure Equipment Directive
- Appendix 3: Listing of Certification Bodies offering ISO 9712 Certification
- Appendix 4: Mutual Recognition of Certification
- Appendix 5: Vienna Agreement between ISO and CEN
- Appendix 6: Process for development and revision of ISO 9712 Standard
- Appendix 7: The role of ICNDT and Regional Groups in the harmonisation process for Training and Certification
- Appendix 8: Basic principles of NDT methods covered by ISO 9712
- Appendix 9: ICNDT Membership Directory

Recommendations

Recommendations to users of central, third party certification

- When central, third party certification is appropriate, regulators and industry are recommended to specify the use of NDT personnel who are certified in accordance with ISO 9712 or an aligned standard, where appropriate, by a certification body accredited to ISO 17024.
- Regulators and users should recognise the importance of employers of NDT personnel properly fulfilling their responsibilities to authorise personnel to work (see Section 6) – after first confirming that their employees are adequately trained, experienced and qualified.

Recommendations to certification bodies

- Certification bodies are urged to provide certification to both ISO 9712 and relevant aligned standards in order to maximise the value of their certification. In anticipation of future harmonisation, their training syllabi should encompass the requirements of the documents ISO/TR 25107 and/or CP 105 which define the body of knowledge.

Recommendations to standards bodies

- Standards bodies ISO, CEN and ANSI/ANST are urged to harmonise their standards for third party certification, whilst allowing within the Standard(s) some flexibility for national conditions.

Recommendations for future ICNDT activities

- ICNDT members should share experience on development and operation of multilateral recognition agreements, with a view towards a possible ICNDT initiative to achieve mutual recognition between the EFNDT and APCNDT agreements and extension to other regions.

ICNDT will update this document periodically and will provide the latest version online via its website www.icndt.org. Users are strongly advised to check that they have the latest version of this document and the referenced Standards.

For further information on the ICNDT Guide, visit the ICNDT website:

www.icndt.org

or contact:

John Thompson

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Email: john.thompson@bindt.org

ASIA-PACIFIC

The 13th Asia-Pacific Conference on Non-Destructive Testing 8-13 November 2009, Yokohama, Japan



**The 13th Asia-Pacific Conference
on Non-Destructive Testing**
8 – 13 November 2009
Yokohama, Japan
Web: <http://www.apcndt2009.com>
Email: apcndt2009@jsndi.or.jp

The Asia-Pacific Conference on Non-Destructive Testing is hosted around the Asia-Pacific region under the support of the International Committee for Non-Destructive Testing (ICNDT).

The Japanese Society for Non-Destructive Inspection (JSNDI) and the organising committee of the 13th Asia-Pacific Conference on Non-Destructive Testing (APCNDT) are pleased to host the NDT event of the year for the Asia-Pacific region at Pacifico Yokohama Convention Center, Japan, from 8-13 November 2009.

In these times of rapid world development, non-destructive testing technology has been continued through APCNDT since 1976. The conference will provide the possible opportunity for exchanging and sharing advanced knowledge in non-destructive testing, making new friends and to encourage NDT techniques.

The organising committee of the 13th APCNDT closed the submission of short abstracts and notified acceptance of 250 abstracts (151 from overseas) on 8 July 2009. A list of registration number and presentation styles of the accepted presentations are shown on the APCNDT 2009 website. Tentative schedules are shown below.

Sunday 8 November

17:00-19:00 Welcome Party (Pacifico Yokohama)

Monday 9 November

09:00-09:30 Opening Ceremony
09:30-10:30 Plenary Lecture 1
10:30-11:00 Coffee Break
11:00-12:15 Oral Presentation
12:15-13:30 Exhibition
13:30-15:10 Oral Presentation
15:10-15:40 Coffee Break & Exhibition
15:40-17:20 Oral Presentation

Tuesday 10 November

09:00-10:00 Plenary Lecture 2
10:00-10:30 Coffee Break & Exhibition
10:30-12:00 Poster Presentation
12:00-13:30 Exhibition
13:30-15:10 Oral Presentation
15:10-15:40 Coffee Break & Exhibition
15:40-17:10 Poster Presentation

Wednesday 11 November

09:00-10:00 Plenary Lecture 3
10:00-10:30 Coffee Break & Exhibition
10:30-12:00 Poster Presentation
12:00-13:30 Exhibition
13:30-15:10 Oral Presentation
15:10-15:40 Coffee Break & Exhibition
15:40-17:10 Poster Presentation
18:00-21:00 Banquet (Intercontinental Hotel)

Thursday 12 November

09:00-10:40 Oral Presentation
10:40-11:00 Coffee Break & Exhibition
11:00-12:15 Oral Presentation
12:15-13:30 Exhibition
13:30-17:30 Technical Tour (JFE Steel Corporation)
Optional (Cost ¥2,000)

Friday 13 November

09:00-10:40 Oral Presentation
10:40-11:00 Coffee Break
11:00-12:00 Plenary Lecture 4
12:00-12:30 Closing Ceremony

The conference committee has invited four plenary lectures, Prof Joon Hyun Lee of Korea, Dr Glenn M Light of USA, Dr Ibrahim Abd Nassir of Malaysia and Dr Shunichi Suzuki of Japan. The final plenary lecture will take place on the last day of APCNDT 2009, 13 November, with The Asia-Pacific Conference for Material and Mechanics (APCMM, formally APCFS). This conference focuses on fracture and strength of materials. For more information, please visit the Japan Society of Mechanical Engineers (JSME) website at <http://www.jsme.or.jp/conference/mmdconf09/>

An exhibition featuring about 20 exhibitors from all sectors of non-destructive testing will display equipment, products, software and services at the conference location from 9-12 November 2009. As a related event, the Exhibition for Non-Destructive Testing, Measuring, Evaluation and Diagnosing Technology (NDE Tokyo) is scheduled to be held in Tokyo Big Sight from 18-20 November 2009. For further information, please visit Japan Management Association (JMA) website at <http://www.jma.or.jp/nde/>

All delegates are requested to make online registration through the APCNDT 2009 website.

To make a hotel reservation, an online reservation facility is offered by Nippon Travel Agency and is available at the APCNDT 2009 website.

The Japanese Society for Non-Destructive Inspection (JSNDI), MBR99 Building, 67 Kanda-sakumagashi, Chiyoda-ku, Tokyo, 101-0026, Japan. Tel: +81-3-5821-5105; Fax: +81-3-3863-6524; Email: acd@jsndi.or.jp

Sri Lanka establishes National Certification Body for qualification and certification of non-destructive testing

The Atomic Energy Authority of Sri Lanka has taken steps to establish a National Certification Body for qualification and certification of Non-Destructive Testing personnel (NCBNDT) conforming to requirements of the ISO 9712 'Non-destructive testing – qualification and certification of personnel' and ISO/IEC 17024 'Conformity assessment – General requirements for bodies operating certification of persons'.

The objective of this NCBNDT is the development of policies and principles regarding the content and functioning of a certification system for qualification and certification of NDT personnel.

The Quality Management System and relevant documents have been submitted to the Sri Lanka Accreditation Board for accreditation of this NCBNDT.

18th World Conference on Non-Destructive Testing



16-20 April 2012

Durban

Republic of South Africa



For further information contact:

South African Institute for Non-Destructive Testing,
PO Box 76068, Lynnwood Ridge, 0040, Republic of South Africa.
Tel: +27 11 719-5717; Tel (messages): +27 12 807-3829; Fax: +27 12 807-3829; Email: saint@acenet.co.za; Web: <http://www.saint.org.za>

Important appointments for Dr Baldev Raj

Dr Baldev Raj, Honorary Member of ICNDT, Distinguished Scientist and Director at the Indira Gandhi Centre for Atomic Research, Kalpakkam, Tamil Nadu, India, has been elected Vice President by the Board of Directors of the International Institute of Welding.

Being elected the Vice President has high relevance to India. The International Institute of Welding is the authoritative body on the knowledge base, standards, practices, documents, human resources and so on related to welding and welding technology. It is a body which has more than 53 members and more than 13,000 peer-reviewed documents to its credit, governing the judicious application and growth of welding science and technology.

Welding science and technology is key to achieve high economic growth of the country and provide good quality of life to the citizens of India and the earth planet. The emphasis of the International Institute of Welding is on human resource, introduction of new materials and technologies for enhanced performance, safety and innovations to make a difference to the society. The IIW Board of Directors is a very compact body with about 12 members. The Board produces a vision and chalks out an implementation mechanism to realise the best from welding



Dr Baldev Raj

science and technology for mankind. The next annual assembly of the International Institute of Welding is in India in 2011. The annual assembly attracts about 700 specialists and hundreds of exhibitors from all over the world.

"It is a good opportunity for me to contribute to national aspirations and enhance the vision and mission of the International Institute of Welding," said Dr Baldev Raj. "This position would also enable me to build bridges between the International Institute of Welding and Indian fraternity of welding science and technology."

In another development, Dr Baldev Raj has been appointed Adjunct Professor in the Department of Electrical & Computer Engineering and Honorary Consul General in Engineering Disciplines by Michigan State University (MSU). MSU is 150 year-old initiative with many first-of-the-kind successes and benchmark achievements. The conventional part of the appointment includes the regular duties of a professor, namely shaping and teaching the courses and interactions with students. "The exciting part of the assignment would be in my capacity as Consul General to enhance collaborations of MSU with educational institutes, research centres and industry in South Asia," said Dr Baldev Raj. "I would also have the opportunity to work with MSU in a think-tank to make a difference in engineering education, to have an impact on issues of global concerns. I would also be looking to support credible young and experienced engineers who can enrich engineering and contribute to evolve solutions to global concerns."

IAEA/RCA Final Progress Review Meeting of RAS/8/105 and Project Planning Meeting of RAS/8/110 20-25 April 2009, Bali, Indonesia

The Final Progress Review Meeting of the Regional Cooperative Agreement (RCA) Project on Development and Application of Advanced Industrial Radiography and Tomography Techniques (RAS/8/105) and The Project Planning Meeting of The RCA Project on Applications of Advanced Industrial Radiography and Tomography in Industry and Civil Engineering (RAS/8/110) was held from 20 to 25 April 2009 in Bali, Indonesia.

The meeting was attended by 19 participants from 15 member states, including two additional participants from Indonesia and Mr Isaac Einav, IAEA expert, and Dr Gursharan Singh, PLCC, as experts. Participants included one each from Australia, Bangladesh, China, India, Indonesia, Malaysia, Myanmar, New Zealand, Pakistan, Philippines, Republic of Korea, Singapore, Sri Lanka, Thailand and Vietnam.

The RCA project RAS/8/105 was aimed at initiating the use of advanced NDT techniques and methods such as digital radiography (DR) and computed tomography (CT) for more reliable and precise inspection and identification of indications, instant results and more computerised communication between NDT inspectors and NDE evaluators, keeping pace with international developments. The other specific objectives of the project included augmenting trained and certified NDT personnel in the region and harmonisation of the NDT training schemes and continuing efforts towards achieving MRA (Mutual Recognition Agreement).

The next natural step is to expand and promote the new techniques as with the rapid globalisation of the industrial sector in the region at par with developed countries. There has been a manifold growth in the demand for applications of established radiation-based conventional radiography techniques for NDT and examination for quality assurance and vertical sustainability. However, this has also led to an increased demand in consumables, such as films and chemicals, and an increased burden of highly toxic substances.

In addition, there are some inherent drawbacks of conventional

radiographic techniques, such as low throughput, increased radiation exposures and associated difficulties in maintaining archives of high volumes of exposed films. DR provides a long felt suitable alternative providing excellent image and archival qualities and manageability of huge data. CT provides image details, such as defect sizing, location, two-dimensional (2D) and three-dimensional (3D) imaging, which are vital but not provided by conventional radiography techniques. Some of the advanced countries have



19 participants from 15 member states attended the meeting

already introduced regular DR and CT facilities in their NDT laboratories. However, consistent technological transition requires familiarity in advanced subjects and also an inclination to adapt technologies to specific user needs. It is intended to demonstrate the usefulness of these advanced technologies in industry and civil engineering by increasing awareness of NDT practising industries/organisations and end users, producing resource materials and brochures, conducting regional and national training courses and

REMS (Regional Executive Management Seminars) for the period 2009-11. Implementation of the project will increase viability of advanced nuclear techniques for increasing industrial product quality and productivity, reducing environmental pollution and increasing the life of civil engineering structures and industrial plants.

Conclusions

- RCA/IAEA Project RAS/8/105 has been completed. Substantial progress has been made with regard to the targeted objective, although each country is at a different stage of progress due to the infrastructure in place.
- The work plan has been duly executed, the planned activities have been carried out and the targeted objectives have been partly achieved.
- The progress related to the specific objectives of the project RAS/8/105, though satisfactory, is not uniform in all the member states.
- As can be seen from the country reports of the project RAS/8/105, the number of NDT trained personnel and NDT companies has increased substantially. The number of institutions involved in DR and CT facility has also increased.
- The knowledge gained and infrastructure developed through the implementation of the project RAS/8/105 will

be beneficial in achieving the objectives of the new project RAS/8/110 and completing it successfully.

- The national work plans of the MSs for new project RAS/8/110 were discussed in detail.

Recommendations

- Dedicated efforts at the national level are required to meet the deadlines for establishing NCBs, development and implementation of QMS, accreditation of NCB and finally achieving MRA.
- The expert services for achieving these goals may be requested from the IAEA by the respective MSs through their national resources/TC programmes.
- Since DR and CT technologies are presently expensive, the promotion and development of these technologies in the RCA region should be done through demonstration at available MSs, regional workshops and provision of experts.
- IAEA/RCA may consider selecting one or two of the existing centres as regional designated centre for DR and CT facility.
- The meeting strongly endorses that IAEA should continue support to achieve the final objectives of MRA.

Assistance of the Agency is needed to facilitate the movement of radioactive sources and equipment between the participating MS countries.

News from the Malaysian Society for NDT (MSNT)

MINDTCE 09 a huge success

The Malaysian Society for NDT (MSNT) reports on the great success of the Malaysian International NDT Conference and Exhibition that was held 20-21 July 2009 at the Legend Hotel in Kuala Lumpur.

The conference attracted more than 200 participants from not only Malaysia but many overseas countries such as the UK, India,

Czech Republic, Australia, Belgium, Iran, Singapore, Canada, Lebanon, Italy, Germany and Japan. 19 exhibitors took part in the associated exhibition.

MSNT offers special thanks to its partners Petronas, Ascope Gas Centre, Nuclear Malaysia and SIRIM for their commitment to make the conference the most memorable ever organised by the Society.



The Legend Hotel in Kuala Lumpur

Mini-Seminar on 'Toward Accreditation of NDT Organisation in Accordance with ISO 17020'

A half-day seminar was jointly organised by Standard Malaysia and Nuclear Malaysia at Seminar Room Block 11, Nuclear Malaysia on 22 July 2009. The objectives of the seminar were to introduce the Malaysian Inspection Body Accreditation Scheme (MIBAS) to Malaysian NDT companies, to discuss some of the technical aspects of MIBAS-NDT and to examine the end-user attitude towards accreditation of NDT laboratories.

Three papers were presented in this seminar by representatives from Standard Malaysia, Nuclear Malaysia and Petronas. The seminar was officiated by En Mohd Shahid Ayub of Nuclear Malaysia and attended by 50 participants, mainly from service providers, research institutes, universities, equipment suppliers and equipment manufacturers. A question and answer session provided at the end of the seminar was used by participants to interact with presenters on issues such as the implementation of quality systems, cost of accreditation and many others.



MINDTCE 09 – a huge success



The half-day seminar was attended by 50 participants

Bangladesh Society plays a greater role

After almost two decades of hard work since its establishment in 1990, the Bangladesh Society for Non-Destructive Testing (BSNDT) is now entering a period of great enthusiasm and achievement. So says the Society's President Dr Md Sana Ullah in the latest BSNDT newsletter.

As a professional organisation, BSNDT works in close collaboration with national organisations such as universities, research organisations, industries, Standards and Testing Institutes. BSNDT has also extended its collaboration with the sister societies abroad. It has established cooperative relationships with the NDT societies of Australia, Canada, Denmark, India, Indonesia, Italy, Japan, Malaysia, Norway, Pakistan and Sri Lanka in their respective areas of interest devoted to the promotion of the art, science and technology of non-destructive testing. BSNDT became a member

of the International Committee for Non-Destructive Testing in 1995 after just five years since its establishment. BSNDT is also participating in the APCNDT programme.

BSNDT regularly organises meetings, seminars, conferences and workshops in collaboration with local as well as foreign organisations in which foreign delegates from sister societies and other related organisations participate. BSNDT members also participate in seminars organised by sister societies and ICNDT.

The potential of NDT technology is great in Bangladesh in the fields of research and development, training and services. Bangladesh has already attained self-reliance in the field of NDT technology and the foreign dependence in this field is greatly reduced. "BSNDT is playing a greater role for attaining such achievement," concludes Professor Sana Ullah.

NDT Appreciation Course for Senior Level Executives

A three-day NDT Appreciation Course for Senior Level Executives organised by BSNDT was recently held at the Atomic Energy Centre, Dhaka. The course was specially designed for the Senior Level Executives of different industrial organisations. The prime objective of the course was to disseminate information and knowledge of NDT technology and its versatile scope and applications in different industrial sectors. Special emphasis was given to the following topics of different aspects of the technology including safety measures, followed by a panel discussion:

- Introduction to different NDT methods
- Present status and future prospects of NDT in Bangladesh
- Cost implications, quality control and quality assurance through NDT and industrial hazards & safety
- NDT practices in railway & aerospace industries
- NDT for non-metallic materials (concrete)
- Hazards, safety & accidental investigations

A total number of 29 senior officials from different leading Government and Private organisations in Bangladesh, including four participants each from Bangladesh University of Engineering and Technology and Gas Transmission Company Limited, three from Jalalabad Gas Transmission & Distribution System Ltd, two each from MAWTS Institute of Technology, Sylhet Gas Fields Ltd, Western Marine Services Ltd, Chittagong Dry Dock Ltd and Bangladesh Air Force and one participant each from Bangladesh Navy, Highspeed Shipbuilding & Engineering Co Ltd, Karnaphuli Paper Mills Ltd, Jamuna Fertilizer Co Ltd, Saj Engineering & Trading Co and Engineering Inspection Services of Bangladesh, attended the course.

Prof Dr A M M Shafiullah, Vice-Chancellor of BUET, inaugurated the course at the Auditorium of AECD as Chief Guest. Dr Shafiqul Islam Bhuiyan, Chairman BAEC, was present as the Special Guest in the inaugural ceremony. The inaugural session was presided over by Prof Dr Md Sana Ullah, President, BSNDT, and Course Coordinator Mr Md Faruque Hossain Chowdhury, General Secretary, BSNDT, and Engr Jafar Sadique, Head, NDT Division, AECD, also spoke on the occasion. The technical session was held at the Auditorium of the

Atomic Energy Centre, Dhaka. Resource persons of the course were Prof Dr Md Sana Ullah, Engr Delawar Bakht, Mr Md Enayet Ullah, Prof Shamima Karim Choudhury, Mr Md Mahiuddin Khan, Engr Jafar Sadique and Mr Md Faruque Hossain Chowdhury. The NDT Division of the Atomic Energy Centre, Dhaka, demonstrated the practical aspects of different NDT methods. The course comprised 11 h of theoretical lectures and 2 h of practical demonstration classes followed by a panel discussion. In the panel discussion session Prof Dr M Fazli Ilahi, Ex-Vice Chancellor, Islamic University of Technology (IUT), was present as the Session Chairman.



29 senior officials from leading Government and Private organisations in Bangladesh were present

At the end of the course, all the participants were awarded with certificates. Prof Dr M Tamim, Special Assistant to the Honourable Chief Advisor of the Government of the People's Republic of Bangladesh, distributed certificates among the participants as Chief Guest and Dr Shafiqul Islam Bhuiyan, Chairman, BAEC, was present as the Special Guest of the occasion. The Certificate Award Ceremony was presided over by Prof Dr Md Sana Ullah, President of the Society, and the course coordinator Mr Md Faruque Hossain Chowdhury and Jafar Sadique, Head of NDT Division, AECD, also talked in the session.

8th International Conference on NDE in Relation to Structural Integrity for Nuclear and Pressurised Components

29 September – 1 October 2010

Berlin, Germany

Organised by the German Society for Non-Destructive Testing (DGZfP).

Deadline for abstract submission: 31 March 2010

Contact: Steffi Schäske, DGZfP, Max-Planck-Straße 6,
12489 Berlin, Germany. Tel: +49 30 67807-120;

Fax: +49 30 67807-129; Email: sk@dgzfp.de

www.8thnde.com

EUROPE



EF European Federation for
Non-Destructive Testing
NDT



The Russian Society
for Non-Destructive Testing
and Technical Diagnostics

10th EUROPEAN CONFERENCE and EXHIBITION on NDT

2010, June 7-11, Expocentr, Moscow

*The on-line registration via web site is provided
<http://www.ecndt2010.ru/eng/register/>*

Deadline:

for abstracts submission.....November 1, 2009

papers submission.....January 1, 2010

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NDT - basis of Safety!

Report of an EFNDT Sponsored Workshop on 'Quality in Non-Destructive Testing', held in the Prague Hilton, Sunday 26 July 2009

A 2½ hour workshop was staged in Prague on Sunday 26 July 2009 in conjunction with the American Society for Mechanical Engineers (ASME) International Conference of the Pressure Vessels and Piping Division. The workshop brought together around 50 people, including an international list of speakers, Presidents of four EFNDT NDT Societies (Czech Republic, Hungary, Finland and Israel) and around 40 delegates from the conference, who could be classed as 'users' of NDT rather than specialists in the subject.

The overall objective of the workshop was to demonstrate how to effectively achieve 'Quality in Non-Destructive Testing' using the EFNDT Guide, including how to utilise European quality systems for NDT whilst working to ASME Codes.

Programme and speakers:

- Introduction – Dr Mike Farley, Chairman, ICNDT.
- Maintaining laboratory NDT quality levels, the EFNDT guidance – Dr Mike Farley (Doosan Babcock), Member, EFNDT Board of Directors.
- Maintaining site NDT quality levels – Mr John Zirnhelt (Acuren), Member, ICNDT WG1.
- Guide to ASME requirements for NDT – Mr John Zirnhelt (Acuren), Member, ICNDT WG1.
- A comparison of ASME and PED requirements for approval of NDT personnel – John Thompson, Chairman, EFNDT and ICNDT WG1 (email: john.thompson@bindt.org).
- Code cases and evolution of the ASME codes – Michael Turnbow, Tennessee Valley Authority.
- How third party (EN 473/ISO 9712) and employer based (SNT TC 1A) qualifications can dovetail, emphasising the EFNDT Guidelines – John Thompson (for Stephen J Lavender,

Lavender International Consultancy Services, who was unable to attend due to a cancelled flight).

- How to qualify/certify people for specialist techniques like UTPA, TOFD, DIRT, etc – Norbert Trimborn, SGS Application Centre Special Examinations.

The presentations were followed by questions and a lively panel discussion. In summing up, the Workshop Chairman, Dr Mike Farley, Chairman, ICNDT (email: mfarley@doosanbabcock.com), declared the Workshop to have been an outstanding success, and suggested that it should be followed by further workshops, with similar or complementary themes, staged in association with future ASME conferences.

It was agreed that the presentations and associated papers, including the EFNDT Guide to achieving Quality in NDT, would be uploaded to the EFNDT website (www.efndt.org) for downloading by delegates and other interested individuals.

Record of attendance

Speakers

Mike Farley, John Thompson, Norbert Trimborn, Michael Turnbow and John Zirnhelt.

Delegates

Hussain Al-Hashina, Martin Bjurström, Brigitte Blokker, Sam Chattopadhyay, David Cho, Lionel Delannoy, Ike Ezekoye, Jorge Fernandes, Yu Ka Fukuda, Oscar Garcia, Jun Gong, Arnold Gresnigt, Cha Ji Hyoup, Xu Jie, Shi Jinhua, Kaji Kondo, Daisute Kubuyoshi, Reza Looyeh, Pavel Mazal, Kim Myoung Su, Ron Nisbet, Amos Notea, Norikazu Ooka, Du Peifeng, Weiju Ren, Joao Rufino, Ciro Santus, Juha Sillanpää, Moti Simchon, Michael Skerik, Vaclav Svoboda, Peter Trampus, Jana Veternikova and Petr Zbanek.

News from the Brazilian Association of NDT

ABENDE is now ABENDI

The Brazilian Association of Non-Destructive Testing has a new acronym: ABENDI, and no longer ABENDE. The change followed developments in the NDT market that now is not limited to NDT and also covers inspection engineering activities where testing is one of the tools that ensures equipment integrity. The replacement of 'E' by 'I' incorporates the inspection activity that is already in the name of the Association.

New ABENDI's management

In April a new management team took over for the 2009-2011 period. Carlos Madureira from BBL is the new President. The directive board is composed of the Vice-President Edson José Eufrásio (V&M do Brasil), and by the Directors João Maurício Godoy (Confab Industrial), Maurício Torres Penido (Transpetro) and Sérgio Damasceno Soares (Petrobrás).

ABENDI accredited by National Oil Agency – ANP

On 27 May 2009 ABENDI's accreditation at the ANP, which is the formal recognition of the institution to perform in areas of relevant interest to the oil, natural gas and biofuel industry with technological skills to carry on research and development activities, was published in the *Official Gazette*. This accreditation is necessary so that utilities, for example Petrobrás, can invest in R&D institutions. According to the clause, the utility company is obliged to carry qualified expenses with research and development in that field, in an amount equivalent to 1% of the gross revenue of its production.

ABENDI celebrates its 30th anniversary

On 26 March 2009, the Brazilian Association of Non-Destructive Testing (now known as ABENDI – see left) celebrated its 30th anniversary. During the event, the Association paid homage to Petrobras/Sequi, among others, which also celebrated 30 years of personnel certification and launched the 'NDT Professional Day', which will be celebrated every 27 March. ABENDI thanks all members and collaborators who contributed to the success of the past 30 years.

10th COTEQ a great success!

The technical-scientific event organised by ABENDI, ABRACO and IBP attracted approximately 950 participants, a record number for the four days of the event held in Salvador on 12-15 May.

Researchers, speakers and exhibitors contributed to the positive result that provided participants with both a technical programme as well as an interesting visit to the exhibition with equipment, products and services.

The event also staged the TC 135/SC 09 Acoustic Emission meeting, for the first time in Brazil, with the presence of the chairman of the ISO technical committee that deals with NDT, Mr Hajime Hatano.

Talks such as 'The Pre-Salt Challenges', 'NDT state-of-the-art technologies in Europe' and 'Conference on the 50 years of evolution in equipment inspection in the country' fostered debate among participants.

The next COTEQ will be held in the city of Recife in 2011.

PAN-AMERICA

News from the American Society for NDT

**ASNT 2009 Fall Conference
& Quality Testing Show**

The ASNT Fall Conference & Quality Testing Show 2009 *Destination Columbus* is set for 19-23 October in the Society's hometown, Columbus, Ohio, USA. It will feature over 100 paper presentations, four short courses and more than 100 exhibitors for the Quality Testing Show. Scheduled papers cover the variety of user industry techniques and applications, and will bring attendees the very latest developments and challenges in the NDT field. The short courses, public lectures and committee meetings round out what promises to be a content-rich week. A sampling of the session topics include: Health Monitoring, Infrastructure Inspection and Evaluation, Fluorescent Penetrant Inspection – Tutorial, Mentoring, Phased Array, Radiation Safety, Pipeline Inspection, Chemical and Petroleum, Modelling and Simulation, and Composites. To view the full programme and to register go to the ASNT homepage, www.asnt.org and click on the banner or 'Meetings and Events' link and select the Fall Conference.

What makes Columbus a great destination? According to the New York Times: "In the last few years, Columbus has undergone a transformation by luring young professionals...the city has seen a flurry of downtown development and gained an unexpected new profile as a Midwestern style capital" (Khemsurov, 2007). The Columbus Convention Center, the site of the conference is near much of this new development and revitalisation. Attendees will be able to enjoy the fine restaurants, shops and galleries of the Short North Arts District, the historic North Market, the Arena District, the South Campus Gateway, German Village and downtown.

Don't miss the 2009 conference which brings together the international community of professionals to exchange ideas and further the profession.

Topical conferences and symposia

There is still time to submit abstracts for these ASNT Topical Conferences and Symposia.

Abstracts are being accepted for:

- **The Fourth Japan – U S Symposium, Emerging NDE Capabilities for a Safer World**
7-11 June 2010, Maui, Hawaii, U S
Abstract submission deadline is 9 October 2009.
- **Nondestructive Evaluation of Aerospace Materials and Structures II**
24 & 25 May 2010, St Louis, Missouri, U S
Abstract submission deadline is 30 October 2009.
- **ASNT 19th Annual Research Symposium & Spring Conference**
22-26 March 2010, Williamsburg, Virginia, U S
- **NDE/NDT for Highways and Bridges: Structural Materials Technology (SMT) 2010**
16-20 August 2010.
Abstract submission deadline is 1 February 2010.

Submission information and requirements for each of these events is provided on the ASNT website www.asnt.org

Society membership continues growth spurt

ASNT ended its 2009 fiscal year, 30 June, with a 7% growth in individual members. The Society includes over 10,700 individual members and 475 Corporate Partner members. The membership is active around the world, with 70 sections in the United States and 14 located outside the United States. The Society's growth worldwide is striking, with 37% of the total membership residing or working outside the United States. The Society had a very successful year, and thanks its volunteer members for their dedication.

E-Mentoring programme launched

As an 'investment' in the future NDT workforce, ASNT is launching an e-mentoring programme to encourage and support young people interested in non-destructive testing career paths. The programme matches ASNT member volunteers with adult student members and young professionals. Mentors will have the opportunity to inspire mentees by sharing their NDT career and industry experience, knowledge and advice. As an internet programme, the mentor and mentee can reside anywhere in the world. Matches are being based on career type and industry(ies) of interest. More than 100 members have volunteered as e-mentors for the programme to date. A webinar is scheduled for 3 September to give the e-mentors programme guidelines, tips for successful mentoring and to answer any questions. Members interested in either being a mentor or a mentee should visit the ASNT website or contact Ruth Dheel in the Membership Services Department at mentoring@asnt.org

Materials Evaluation redesigned

In this, its 67th year of publication, *Materials Evaluation* introduced a new look and a redesigned layout in March. The publication is designed with the reader in mind with material presented in a modern, professional and aesthetically pleasing manner. *ME* continues to publish technical articles as well as material addressing ASNT and industry-related information and concerns. Content fundamentals remain: to bring informative articles to the NDT community while highlighting the ongoing efforts of ASNT to fulfil its mission – to create a safer world by promoting the profession and technologies of non-destructive testing. Response to the new look has been very favourable.

**Argentine Society organises
7th Regional Conference and
Exhibition**

The Argentine Society of Structural and NDT (AAENDE) is pleased to invite all readers of the *ICNDT Journal* to participate in the 7th Regional Conference and Exhibition on NDT (VII CORENDE), scheduled to take place from 11-13 November 2009, at the Ariston Hotel & Convention Centre in Rosario, Santa Fe, Argentina.

The 7th CORENDE will offer an opportunity for managers, engineers, technicians, inspectors and researchers to exchange experience in the theoretical and practical fields of non-destructive testing, structural integrity of equipments, welding, qualification and certification of personnel and quality control.

The Steering Committee is coordinating the involvement of regional and international NDT experts and has confirmed the participation of Lic Cristian Sani (Raytec Vision) and Dr Ing Alain Le Brun (EDF) as keynote speakers for this event.

The Conference will also include an Exhibition Hall where companies will be able to promote their products and services, while visitors will have a unique opportunity to access the latest technologies, make new contacts, meet industry colleagues, keep up-to-date and see hands-on demonstrations.

Further information regarding this event can be found at: <http://www.aaende.org.ar/CORENDE2009/inicio.htm>

If you have any questions regarding this event, please do not hesitate to email viicorende@aaende.org.ar where AAENDE will be more than pleased to assist.

Daniel Arra, AAENDE Executive Director, Tel: 011-6-772-7429; Fax: 011-6-772-7426; Web: www.aaende.org.ar

CALENDAR OF NDT EVENTS

Month	Date	Venue	Event	Contact
September 2009	1-3	Ljubljana Slovenia	10th International Conference – 'Application of contemporary NDT in Engineering'	ndt-ljubljana@fs.uni-lj.si www.fs.uni-lj.si/latem/NDT%202009/ NDT-V1.htm
	14-19	Essen Germany	3rd Quality Testing International Exhibition 2009	info@messe-essen.de www.messe-essen.de
	15-17	Blackpool UK	Materials Testing 2009 and NDT 2009 Conference	karen.cambridge@bindt.org www.materialstesting.org www.bindt.org
October 2009	12-14	Prague Czech Republic	5th International Workshop: NDT in Progress	cndt@cndt.cz www.cndt.cz
	15-17	Rome Italy	13th Italian National Conference on NDT and Technical Diagnostics and Biennial NDT-TD Exhibition	www.aipnd.it roma2009@aipnd.it
	19-23	Columbus Ohio, USA	ASNT Fall Conference and Quality Testing Show	conferences@asnt.org www.asnt.org
November 2009	4-6	Prague Czech Republic	Defektoskopie 2009: NDE for Safety 2009	www.cndt.cz cndt@cndt.cz
	8-13	Yokohama Japan	13th Asia-Pacific Conference on Non-Destructive Testing 2009	apcndt2009@jsndi.or.jp www.apcndt2009.com
	11-13	Rosario Argentina	VII Regional Conference on Non-destructive and Structural Testing – VII CORENDE	www.aaende.org.ar viicorende@aaende.org.ar
December 2009	10-12	Tiruchirappalli India	Indian Society for Non-Destructive Testing (ISNT) National Seminar and Exhibition on NDE	www.nde2009.in convenende2009@gmail.com nde2009@gmail.com
March 2010	17-19	Accra Ghana	6th African Conference on NDT	www.gaecgh.org/NDTConference.htm kabdanso@yahoo.com
	22-26	Williamsburg USA	19th American Society for NDT Annual Research Symposium and Spring Conference	www.asnt.org conferences@asnt.org
June 2010	7-11	Moscow Russia	10th European Conference on NDT	spektr@co.ru www.rsnttd.ru
September 2010	29-1 Oct	Berlin Germany	8th International Conference on NDE in Relation to Structural Integrity for Nuclear and Pressurised Components	www.8thnde.com sk@dgzfp.de
April 2012	18-20	Durban South Africa	18th World Conference on NDT	saint@acenet.co.za www.saint.org.za