



The World Organisation for NDT

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Volume 8 Issue No 13

April 2014

CHAIRMAN'S MESSAGE

Annual Meeting and Strategic Plan update

Many of us have been experiencing out-of-the-ordinary weather this year and indeed on the day of the ICNDT Annual Meeting, which was held over the internet, there was a difference in temperature of more than 60°C (108°F) between Columbus (ASNT) and Brisbane (AINDT)! In Glasgow, Scotland, where I am based, it was a mild 5°C and we are currently 'enjoying' one of the warmest but wettest winters on record.

Annual Meeting

The Annual Meeting on 31 January 2014 ran smoothly and we were delighted so many ICNDT member societies from all around the world participated. Our Annual Report and Accounts for 2013 were presented and a Budget for 2014 was approved. You can find these documents, or links to them, elsewhere in this issue of the *ICNDT Journal*.

Strategic Plan update

Following the Annual Meeting, the ICNDT Executive Committee (IEC) met to discuss an update to the Strategic Plan to cover our activities through to 2016. Version 8 (V8) of the plan, which is available on the ICNDT website, was prepared following discussions at the 18th WCNDT in Durban. Version 9 (V9) will be an update to recognise the considerable progress made in 2012 and 2013, and to set down a revised action plan for the second half of the four-year cycle, leading up to the General Assembly in Munich and the election of new officers. The IEC will develop V9 in consultation with the Policy and General Purposes Committee (PGPC) and present it to the General Assembly, to be held during the 11th ECNDT in Prague. We are keen to hear ideas from members. What do you want ICNDT to do over the next two to three years?

Some of the ideas being discussed are a little more radical and less 'business-as-usual' than before.

We are considering whether we should try to step up our activities by making more use of professional help and, if so, how to fund this. We are also considering changing the fees model to make it easier for very small societies to be members, by asking the larger societies, which can afford it, to pay more.

Questions have been raised about how some NDT societies and personnel certification bodies operate outside their home countries and the tremendous benefits which accrue to the world of NDT as a result. Is it feasible for every country in the world to have its own NDT society and personnel certification body providing a full range of services? Clearly not, and cooperation with other NDT societies can fill the gaps. We have heard of some outstanding examples of cooperation across the globe, but there are risks and we do not want to stifle enthusiasm to set up an NDT society and take responsibility locally. We are developing papers and recommendations and would like to hear members' views.



Continued on page two

Help promote the importance of NDT

In its quest to improve and increase the promotion of the importance of NDT, the Executive Committee of ICNDT has formulated Action Plan 2, which covers a wide variety of issues relating to the objective. One of these topics is concerned with the information available on the internet on NDT and its associated disciplines, and NDT technologies and their application. It is obviously in everyone's interest that this information is as comprehensive, accurate and up-to-date as possible.

Websites such as Wikipedia, the encyclopaedia written collaboratively by the people who use it, contain a lot of information about non-destructive testing that can be improved, developed and expanded. Not everyone, however, has the expertise or the time available to do these things.

It is felt that ICNDT can fulfill a useful role by helping to coordinate the efforts of individuals who are willing to contribute a small but valuable amount of time to enhancing the NDT information resources available on the internet. These resources might not be just those available through websites such as Wikipedia, but also many others, including the ICNDT's own at www.icndt.org, with a view to making this a valuable knowledge base for all people with an interest in non-destructive testing.

Whilst initial efforts will be focused on the English-language versions of the resources in question, it is ultimately envisaged that other languages will be covered in the future.

It is hoped to convene a meeting of interested communications representatives from member societies in due course.

To register your interest in joining a small task group and offering assistance with this project, please send an email to david.gilbert@bindt.org, detailing any specific areas of interest and expertise.



ICNDT Journal



Publisher: The International Committee for Non-Destructive Testing (ICNDT).
The ICNDT is registered as a legalised Association with its seat in Vienna, Austria. A1010 Vienna, Krugerstraße 16.

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Published three times per year.

Editorial contributions are welcomed.

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Views expressed in this publication are not necessarily those of the International Committee for Non-Destructive Testing. No liability is accepted whatsoever for errors or omissions.

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**Material for the next ICNDT Journal should be sent to
Sharon Bond, email: s.bond@cinde.ca**

*Chairman's message continued from
front page*

11th ECNDT, Prague

Now is the time to make your plans for the 11th ECNDT, to be held in Prague from 6-10 October 2014. The arrangements are coming along very well.

There will be several ICNDT meetings held during the event, including the GA, PGP, WG1 and WG2. We are also organising two ICNDT workshops:

- **ICNDT workshop on qualification and certification of NDT personnel**

Objective: To address specific issues relating to the future development of the ISO 9712 standard and the present evidence in support of proposals.

- **ICNDT workshop on the importance of NDT and related research needs**

Objective: To develop an ICNDT publication suitable for wider dissemination to engineering academics.

If you wish to participate, or would like to suggest someone else, please let me know.

Chairman's activities

It is already more than three months since many of us were together in Mumbai for the excellent 14th APCNDT, where we enjoyed wonderful hospitality from our Indian hosts. Congratulations also to our Russian colleagues on the organisation of the Winter Olympics in Sochi and on topping the medals table! I have to apologise for not being able to attend the 20th Russian NDT Conference in Moscow, but ICNDT

was represented by David Gilbert and Alexander Mullin. I instead had a very pleasant task closer to home, as the official opener of Lavender International NDT's new UT Training Suite in Sheffield on 7th March 2014 – the 90th anniversary of the birth of Jack Lavender, the founder of the company. Jack was a true pioneer of NDT and gained worldwide respect as a Fellow of both BINDT and ASNT. We also drank a toast to Steve Lavender MBE, Co-Managing Director of Lavender International and Immediate Past President of BINDT, who was awarded an MBE in the Queen's New Year Honours list. Later in the month, I will attend ASNT's Spring Conference and Research Symposium in Minneapolis.

Best wishes to all,

Dr J M Farley
Chairman, ICNDT

**Your new ICNDT
Journal is available
for downloading from
www.icndt.org**

World Conference on Non-Destructive Testing

19th WCNDT 2016

13-17 June 2016
**The International Conference
Centre (ICM), Munich, Germany**

Topics include:

- Monitoring
- Cultural heritage
- Modelling and data processing
- Semi-finished products
- Medical products
- Reliability and statistic procedures
- Materials characterisation
- Energy generation
- Structural engineering

Contact: German Society for Non-Destructive Testing (DGZfP), Max-Planck-Strasse 6, 12489, Berlin, Germany.
Tel: +49 30 678 07 120; Fax: +49 30 678 07 120; Email: conference@wcndt2016.com

www.wcndt2016.com

New research register

ICNDT is establishing on its website (www.icndt.org) a new register of institutions and other organisations that carry out research into NDT and associated disciplines.

The register may be found under the 'Resources' tab on the home page.

Authorised representatives of organisations involved in research activities are invited to add their details free-of-charge, at: www.icndt.org/Resources/RegisterEntry.aspx

The register is compiled from information supplied by research organisations. Whilst every effort is made to ensure that the details are correct and as up-to-date as possible, ICNDT cannot accept any responsibility for errors or omissions.

Download ICNDT Annual Report and Budget

Copies of the 2013 ICNDT Annual Report are available for download (PDF) from the ICNDT website at the direct link: <http://bit.ly/1eKXiDs>

Copies of the 2014 ICNDT Annual Budget are available for download (PDF) from the ICNDT website at the direct link: <http://bit.ly/1icRYwo>

Establishment of APFNDT at the 14th APCNDT 2013 in Mumbai, India

The 14th Asia-Pacific Conference on Non-Destructive Testing (APCNDT) was successfully held in November 2013 in Mumbai, India. The main topic for the Asia-Pacific Committee for Non-Destructive Testing (APCNDT) was the establishment of the Asia-Pacific Federation for NDT (APFNDT) and how to conduct its operating procedures and constitutions.



Delegates to the Asia-Pacific Committee General Assembly meeting in Mumbai

In 2009, the establishment of the APFNDT as a temporary name independent from the existing APCNDT was proposed by the Chairman of the APCNDT 2009 to conduct NDT work more actively and promote the mutual understanding for NDT implementation among the member countries. It was approved unanimously at the General Assembly (GA) of the 13th APCNDT held in Yokohama, Japan.

In 2012, an APCNDT meeting was held during the 18th WCNDT in Durban, South Africa. APCNDT member societies voted for the formation of the APFNDT and it was approved.

Following that, the APFNDT Working Group (WG) was established in the Task Group meeting conducted by the Japanese Society for Non-Destructive Inspection (JSNDI). The WG consisted of four members: Dr Venkatraman (President of APCNDT 2013), Dr Ooka (President of APCNDT 2009), Mr Dick (President of APCNDT 2006) and Mr Babu (Secretary of ICNDT and APCNDT 2017), and three observers: Mr Pari and Mr Choksi (ISNT, India) and Dr Cho (KSNT, South Korea).

In 2012 and 2013, an APFNDT WG meeting was held four times: twice in Tokyo, once in Australia and once in Singapore, to prepare the constitution and operating procedures of the APFNDT by referring to those of the EFNDT. Mr Dick drafted the documents and amended the constitution to discuss at a WG meeting. The documents were finalised at a WG meeting before the GA of the APCNDT 2013 in Mumbai, India.

In 2013, during Session 1 of the APCNDT GA, Dr Ooka made a presentation on the history of PPCNDT and APCNDT towards APFNDT, before the presentation of the proposed constitution by Dr Venkatraman and Mr Dick. Regarding approval of the operating procedures, it was necessary to complete the formation of the Board for the APFNDT through nomination of the regional representatives. The APCNDT GA needs to approve some specific operating procedures, some of which had been circulated to all the member societies in advance. The constitution of the APFNDT and 12 operating procedures were reviewed by all of the APCNDT member representatives. Some of the operating procedures are in draft form, waiting for the new Board to modify and action them.

During Session 2 of the APCNDT GA, the constitution of the APFNDT was approved and Executive Committee members of the APFNDT were elected and approved. Moreover, the APCNDT member societies approved unanimously the operating procedures on the formation of regional groupings, which were arrived at based on the United Nations Charter, and nominations and elections for the

APFNDT regional representatives were taken up. With the nominations for the regions, the Executive Committee members and the regional representatives, the Board of the APFNDT was constituted as follows:

Executive Committee members:

- President: Dr Norikazu Ooka, JSNDI, Japan
- Vice President: Dr Joon Po Lee, KSNT, South Korea
- Secretary: Mr Les Dick, AINDT, Australia
- Treasurer: Mr S K Babu, NDTSS, Singapore
- Immediate Past President: Dr B Venkatraman, ISNT, India
- 15th APCNDT Chair: Mr Sze Thiam Siong, NDTSS, Singapore
- Secretariat: JSNDI, Tokyo, Japan
- Auditor: Mr John Maccarone, AINDT, Australia.

Regional representatives

- **Group One**
India: Mr Shri V Pari
Russia: Dr Alexandar Mullin
- **Group Two**
China: Dr Shen Gong Tian
Malaysia: Dr Abd Nassir Ibrahim
South Korea: Dr Man Young Choi
Taiwan: Dr David Chu
- **Group Three**
Australia: Mr Pranay Wadyalkar
USA: Mr Ray Morasse.

Finally, the GA members thanked Dr Venkatraman, President of the 14th APCNDT, and his team for the event organisation and hospitality. The GA members also thanked the Indian Society of Non-Destructive Testing (ISNT) for all the cooperation and support.

Dr Ooka, as the first President of the APFNDT, expressed his deep appreciation to Dr Venkatraman and formally welcomed and asked all new APFNDT members to support the work plan and implementation of the APFNDT. Dr Ooka also stated that the first Executive Committee meeting will be held within the next six months to identify the responsibilities and action plan of the APFNDT, supported by the extra budget from JSNDI in Tokyo, Japan.

14th APCNDT achieves objectives

The 14th Asia-Pacific Conference in Mumbai attracted more than 800 delegates from over twenty different countries. With 320 papers – claimed to be the highest number of papers at an APCNDT – and 70 exhibitors, the conference achieved the objective defined by its theme: ‘Excellence with relevance through NDE’.



ICNDT Executive Committee members and observers at the meeting in Mumbai. There were meetings of the ICNDT IEC and PGPC committees and Working Groups 1 and 2, as well as an Education Workshop and the Asia-Pacific Committee (see accompanying article)

ASIA-PACIFIC

News from the Malaysian Society for NDT

Visit to AINDT by MSNT and Department of Skill Development – 4-11 November 2013

The President and Vice President of the Malaysian Society for NDT (MSNT) accepted an invitation from the Department of Skill Development and joined its team for a technical visit to the Australian Institute of Non-Destructive Testing (AINDT) in November 2013.

The main objective of the visit was to learn about the Australian experience in various aspects of the qualification and certification of NDT personnel in accordance with ISO 9712:2012. The visit also aimed at a possible collaboration between the Malaysian national certification body and AINDT, in various areas related to the certification of NDT personnel.

The visit started with a trip to AINDT's office in Melbourne. Here, a comprehensive presentation regarding the Australian qualification and certification scheme for NDT personnel was given by AINDT's Executive Secretary and the Chairman of the Board. In addition, members of the delegation also visited other organisations related to NDT training, certification and services in Melbourne and Sydney.



MSNT delegates visiting AINDT's headquarters in Melbourne

In conclusion, the trip was very fruitful and the visitors gained a great deal of knowledge and experience, which will be used in improving the quality of the Malaysian NDT qualification and certification scheme.

2014 AINDT Conference and Trade Exhibition

23-26 November 2014
Sofitel Brisbane Central, Brisbane
Queensland, Australia

Contact: The Australian Institute for Non-Destructive Testing
(AINDT), PO Box 52, Parkville, Victoria 3052, Australia.
Tel: +61 3 9328 8831; Fax: +61 3 9328 8787;
Email: info@aindt.com.au

www.aindt.com.au

Congratulations on the 14th APCNDT

The Malaysian Society for NDT (MSNT) congratulates the Indian Society of NDT (ISNT) for its amazing success in organising the 14th Asia-Pacific Conference on Non-Destructive Testing (APCNDT), held 18-22 November 2013 in Mumbai, India. MSNT also wishes to thank the ISNT for inviting the MSNT President as a guest speaker in a slot focusing on non-destructive testing education and training.



The opening ceremony of the 14th APCNDT, held in Mumbai, India

In addition to the President, two younger MSNT members, Dr Ilham Mukriz Zainal Abidin and Mrs Madiha Muhammad Amir, also participated in the conference, representing the Malaysian Society.

During this event, members of the MSNT delegation had a great opportunity to meet a number of individuals who have contributed greatly to the development of NDT throughout the world.

Three papers were contributed by Malaysian delegates: 'NDT education and research in Malaysia', by the MSNT President, and presentations by Dr Ilham Mukriz Zainal Abidin and Mrs Madiha Muhammad Amir.

MSNT would like to thank both Dr Ilham and Mrs Madiha for their impressive presentation related to our effort to secure the chance to host the 16th APCNDT. Although MSNT withdrew its candidacy to make way for Australia and China, both of which successfully impressed members of the Asia-Pacific NDT community, Malaysia has the capability to host such an event and will present its case again during the 15th APCNDT in Singapore for hosting the 17th APCNDT in Kuala Lumpur.

MSNT President's scientific visit to the UK

As part of a range of activities under an IAEA-funded project, entitled: 'Development of NDT Data Management System and Data Fusion', a scientific visit to some selected organisations in the UK was organised for the MSNT President.

The visit, which took place 20-24 January 2014, gave the President the opportunity to meet some experts in the UK. Organisations visited by the President included CITS, The British Institute of NDT, Argyll-Ruane, the Advanced Manufacturing Research Centre, Sonaspection and the Institution of Mechanical Engineers (IMEchE). Possible collaborations with the Malaysian Nuclear Agency, CITS and IMechE were also discussed during the visit.

The visit was successful in providing a good platform for further collaboration between Malaysia and the UK in the field of NDT. MSNT wishes to thank the IAEA, the British Council and other individuals and organisations involved in the arrangement of this visit.

AFRICA

SAINT – the professional body for NDT in RSA

With the 18th WCNDT (World Conference on Non-Destructive Testing) held in Durban, and the vibe that went with it, behind us, the South African Institute for Non-Destructive Testing (SAINT) has had to reassess its role with regards to its members and NDT in general for the South African industry.

The SAINT Council did not want to lose the momentum generated from the hype that was created during the World Conference. It also realised that a change of focus was needed, as there was little chance of survival with a continuation of the status quo. Soon, the idea of an NDT Indaba, an isiZulu word for an important gathering, was conceived. The Indaba was held 15 February 2013 at the Willow Park Conference Centre in Kempton Park, South Africa.

Opportunities were given to over 100 attendees, who travelled from as far as Cape Town, to air their wishes as to what they expected from SAINT. Representation was made by NDT students, Level 1, 2 and 3 personnel, NDT service providers, equipment manufacturers and end users. All of the statements and suggestions were recorded, transcribed and evaluated by SAINT Council.

The one single important issue that emerged from the Indaba was to address the professional status of NDT technicians in the South African industry. On 11 April 2013, SAINT Council unanimously decided to pursue a process through the South African Qualification Authority (SAQA) to register as a Professional Body for NDT.



SAINT has decided to register as a Professional Body in South Africa

Ms Felicity Kent, a specialist in the field of professional body establishment and registration, having assisted with the establishment of The Institute for Working at Heights, was appointed as the proposed Professional Body Manager. During August 2013, a Steering Committee was established by SAINT Council, in support of Ms Kent, to lay the groundwork for establishing and registering as a Professional Body for NDT. The Steering Committee currently comprises the following:

- Harold Jansen, Chairman
- Felicity Kent, Professional Body Manager
- Robin Marshall, Secretary
- Simon Wilding, Member
- Keith Cain, Member
- Ben Buys, Regional Rep – Cape Town
- Rajendra Kistiah, Regional Rep – Durban
- Marius Purcell, Regional Rep – Mpumalanga.

As part of the SAQA registration process, the Professional Body embarked on a roadshow during the last week of January 2014. The objective of the roadshow was to inform industry of the developments related to NDT personnel gaining professional

designations within the South African qualification framework, as well as broad-based acceptance across the South African industry. For this reason, the roadshow was staged in the four major industrial hubs: Johannesburg (Gauteng), Middleburg (Mpumalanga), Durban (Kwa-Zulu Natal) and Cape Town (Western Cape). The combined attendance at the four venues surpassed that of the Indaba.

Each venue was provided with an introductory speech, a presentation detailing the workings of the proposed professional body, a question and answer session, and a lucky draw, with the formalities ending with refreshments supplied by the hosts. Thereafter, the visitors took part in various discussions relating to the information that had been presented to them.



Delegates at the NDT Indaba

The presentation outlined the process required and the proposed plan of action, as well as the registration of professional bodies in South Africa. Additionally, the presentation explained that the latest version of the Draft Policy on Recognition of Professional Bodies was issued in April 2012 and that there are currently approximately 60 professional bodies recognised by the Board of SAQA.

The definition of a registered professional body is a body that has been constituted to represent and/or regulate a recognised community of expert practitioners. A recognised professional body must register its professional designations with SAQA. As SAQA will not allow designations to be called a 'level', as is universally used in NDT, the Steering Committee created the following designations that were subsequently proposed:

- NDT Operator (NDT Level 1)
- NDT Technician (NDT Level 2)
- NDT Technologist (NDT Level 3).

Alternative designations may be added at a later stage to include academic training provided by Vaal University of Technology (VUT).

The proposed designations are based on the highest NDT level of certification, with a specialisation included for the method and level stipulated separately. For example, a PT2, MT1 candidate would possess the following:

- Professional Designation: NDT Technician
Specialisation: Magnetic Testing Level 1
Penetrant Testing Level 2

The designations are to be awarded when the specific criteria have been met. Such criteria will meet the South African Unit Standards, based on ISO 9712, but also include the requirements of company-based certification, based on the SNT-TC-1A document.

These are exciting developments for NDT RSA and SAINT. This could be a model for international consideration as it attempts to bridge the gap between certification systems and gives recognition to the individual as a professional.

EUROPE

Report on the 12th ICNDT in Portorož

The 12th International Conference on Non-Destructive Testing, with the title 'Application of Contemporary Non-Destructive Testing in Engineering', took place 4-6 September 2013 in Portorož, Slovenia. The conference was organised under the auspices of the European Federation for Non-Destructive Testing (EFNDT), which was greatly appreciated by the organisers, the Slovenian Society for Non-Destructive Testing (SSNDT) and the Faculty of Mechanical Engineering, University of Ljubljana. The Scientific and Organising Committee was headed by Professor Dr Janez Grum, in his capacity as President of the Slovenian NDT Society.

The conference was attended by nearly 100 participants, including distinguished guests such as Dr Matthias Purschke, President of EFNDT, Mr Gerhard Aufricht, Treasurer of ICNDT, Professor Dr Stanislav Pejovnik, Rector of the University of Ljubljana, Professor Dr Branko Širok, Dean of the Faculty of Mechanical Engineering, Dr Janez Slak, Deputy Director of the Public Agency for Research Activities of the Republic of Slovenia, and Dr Raymond Morasse, President of ASNT.

There were 82 papers presented at the conference, with eight given as keynote lectures:

- 'NDT challenges and responses', P Trampus;
- 'Enhancement of efficiency in vibro-thermography and non-linear ultrasonic NDT via local defect resonance (LDR)', I Solodov;
- 'Electromagnetic NDT for lifetime management by monitoring of ageing phenomena', G Dobmann, C Boller, H G Herrmann and I Altpeter;
- 'Evolution of modern NDT methods for the inspection of

lightweight components', M Kreutzbruck, M Pelkner, M Gaal, M Daschewski and D Brackrock;

- 'High-frequency electromagnetic non-destructive evaluation', R Grimberg;
- 'Low-frequency Lamb wave-based structural health monitoring of an aeronautical carbon fibre-reinforced polymer composite', M Carboni, A Giannio and M Giglio;
- 'From acoustic emission testing (AT) to acoustic monitoring', P Tscheliesnig; and
- 'Assessment of infrastructures by means of passive and positive elastic wave approaches', T Shiotani, Y Kobayashi and S Momoki.

The papers were presented in 12 sessions and covered ultrasonic testing, electromagnetics, acoustic emission, thermal and infrared techniques, radiographic techniques, NDT education and training and other methods. All of the papers presented were reviewed by the Scientific Committee and the 82 selected featured in the conference proceedings book and CD; each participant received a copy of both. The conference was also attended by exhibitors, who presented the latest NDT equipment and techniques.

The three-day event provided a forum for scientists, engineers and practitioners, as well as end-users, to review the latest developments, identify particular needs and opportunities for further advances, and exchange knowledge and experience with other well-known experts, as well as outline the milestones for further progress in the fields of NDT and NDE.

Professor Dr Janez Grum
SSNDT President

Call for Papers

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

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

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

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

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

<http://mc.manuscriptcentral.com/ndt2014>
or via the link on www.bindt.org by 16 May 2014

The British Institute of Non-Destructive Testing

 **NDT2014**

53rd Annual Conference

9-11 September 2014

The Palace Hotel,
Manchester, UK

Contact: Conference Services, The British Institute of Non-Destructive Testing, Newton Building, St George's Avenue, Northampton NN2 6JB, UK.
Tel: +44 (0)1604 89 3811; Fax: +44 (0)1604 89 3861;
Email: karen.cambridge@bindt.org / amy.cooke@bindt.org

INVITATION TO PRAGUE

- CAPITAL OF THE CZECH REPUBLIC

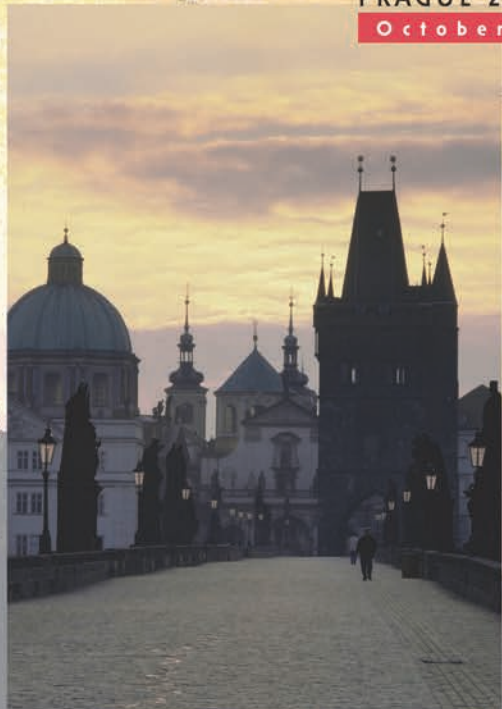
11th ECNDT
PRAGUE 2014
October 6 - 10, 2014

Czech Republic

EF European Federation for
Non-Destructive Testing
NDT



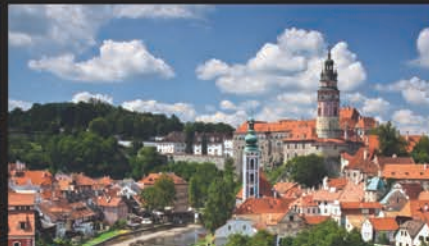
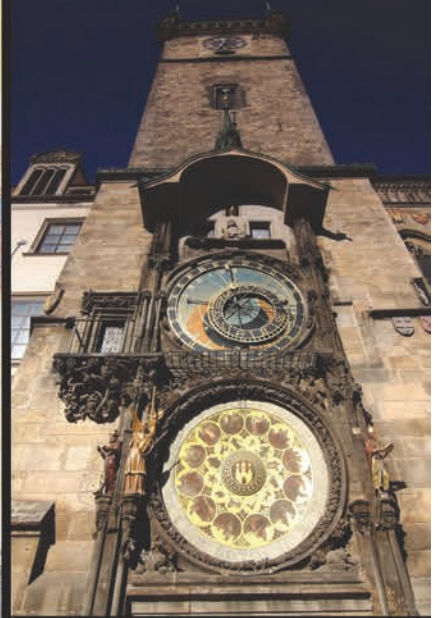
Czech Society
for NDT



Prague - the right place to host
the 11th ECNDT in 2014

**11th European Conference
on Non-Destructive Testing**

www.ecndt2014.com



PAN-AMERICA

News from the American Society for NDT

**ASNT's 2013 Annual Conference
a big winner in Las Vegas**

ASNT held its Annual Conference from 4-7 November in Las Vegas, Nevada, and it was a huge hit from beginning to end. Non-destructive testing (NDT) researchers, technicians, students and community members worldwide convened to engage with each other over relevant industry topics, new NDT technologies and important society business. This year's conference reached more than 2,000 participants, representing the full spectrum of NDT methods and techniques.

The professional programme consisted of more than 100 scheduled presentations and five short courses. The papers were well received and showcased a variety of novel NDT techniques and applications from the forefront of the industry.

Committee and informational meetings, along with short courses and networking opportunities, kept attendees active throughout the week, and the exhibition hall was filled with companies excited to demonstrate their products and services to interested observers.

Down to business

Starting early on Monday morning, ASNT councils and committees opened a schedule of meetings that continued throughout the week. Volunteers and ASNT staff worked together to keep the Society on current NDT developments and guide its course of member service.

The Annual Business Meeting also convened on Monday, with 69 members from 32 sections present. The results of the 2014 Board of Directors election were announced and L Terry Clausing, Secretary/Treasurer, gave the 2013 Treasurer's Report, which quantified growth in several areas, as well as the development of services such as the updated ASNT website and new topical conferences.

Robert J Potter, 2013 Chair of the Board, then presented the State of the Society address and recognised several individuals, including Claudia Kropas-Hughes, Conference Programme Chair, Trey Gordon, Co-Chair, and Robin Stippich, Chair of the Spouse Programme. Claudia is in her 11th year as Conference Programme Chair, and this year's offering was the largest and best attended.

On Monday evening, a ribbon-cutting ceremony opened the exhibition portion of the show and attendees filled the hall to check out the 189 exhibiting companies, as well as both see and experience NDT products and applications. Trade show attendees were also treated to drinks and appetisers, which encouraged everyone to relax and interact with new business contacts before engrossing themselves in the week's activities.

Keynote and plenary addresses

The keynote and plenary addresses featured the host city Las Vegas, including presentations on the Hoover Dam and the world's largest ferris wheel, currently under construction in Las Vegas.

On Tuesday, Jack S Brenizer Jr of Pennsylvania State University presented the 2013 Mehl Honour Award Lecture, entitled: 'Approaching a century of imaging with neutrons: significant advances and challenges'. His presentation covered the history of neutron radiography (NR), beginning with James Chadwick's discovery of the neutron in 1932, followed by Hartmut Kallman and Ernst Kuhn creating the first images later that decade and ending with a prospective look at the technology going forward. Along the way, Jack discussed other important developments, such as the creation of ASNT standards for NR in the 1970s and the factors that limit the use of this method.

On Wednesday morning, Nathaniel Gee of the Bureau of Reclamation in Boulder City, Nevada, discussed 'Hoover Dam – maintaining a giant', describing the importance of dams to the water supply of the US Southwest and some of the NDT practiced

on the Hoover Dam in particular. Since the Hoover Dam is 75 years old, many of its valves, gates and other functional parts have exceeded their design lives; the question becomes when, how and whether they could be replaced. In the end, Nathaniel stressed that communication and record-keeping have been most important in learning how to handle the structure and its maintenance.

A panel combining Ricky Morgan of Smith Emery Co, John Callaghan of American Bridge International, Adrian Crowther of ARUP and Mark Hayes of the Clark County Building Division presented Thursday's plenary address, entitled: 'Las Vegas High Roller: Concept to Completion – the world's largest ferris wheel'. The presenters looked at the 168 m (550 ft)-tall ferris wheel as not just a masterpiece of construction but also of collaboration, since fabrication, erection and operation have taken place in six different countries, requiring a staggering amount of logistics and communication.

All presentations were well received and well attended as part of the conference's strong professional programme.

Short courses and educational sessions

Attendees took advantage of short courses throughout the week and educational sessions from Tuesday through to Thursday. There was no shortage of opportunities to learn about new techniques being researched and devices being developed for NDT.

B Boro Djordjevic of Materials and Sensors Technologies Inc opened the short courses on Monday with 'Non-destructive testing of composites'. There were also courses on 'Mistake-proofing the certification examination process', taught by Israel Vasquez of Vastek Consulting, 'Non-destructive testing with electromagnetic acoustic transducers', taught by Huidong Gao of Innerspec Technologies, 'Thermography for NDT', taught by Steven Shepard of Thermal Wave Imaging Inc, and 'NDT instructor 'leader/coach'', taught by Don Locke of Hellier. These courses served NDT managers, inspectors and trainees with the education and certification they need to stay current in the rapidly changing NDT field.

Paper sessions included topics on NDT of composites, infrastructure, aerospace, pipelines and the energy industry, as well as several different methods, radiation safety and education and training. These sessions were composed of 30-minute presentations in three halls over three days and explained new techniques, equipment and practices. Session chairs and presenters were also available for follow-up, creating an interactive experience for attendees.

Annual Awards Banquet

On Wednesday night, ASNT members gathered for the Annual Awards Banquet. ASNT recognised its community members for their contributions to the NDT industry and to the society itself. Hussein Sadek received the 2013 Robert C McMaster Gold Medal for his outstanding service and meritorious contribution to the NDT industry. Michael McDaniel received the Charles N Sherlock Meritorious Service Award, while the Lou Di Valerio Technician of the Year Award went to Mark Behal. Yi-Cheng 'Peter' Pan received the Young NDT Professional Award. Thirteen sections were recognised for their achievements in the 2012-2013 President's Award Programme, with Greater Houston, Hampton Roads, Old Dominion, Pacific Northwest, San Diego and Saudi Arabian receiving Gold honours.

NDT students were also recognised at the banquet. Many students volunteered throughout the week at registration as well as during sessions and meetings, and their efforts helped the conference to run smoothly. The Engineering Undergraduate Awards were presented to Matthew Meyer of Iowa State University, Kyle Sinding of Pennsylvania State University and Ches Weeks, of Old Dominion University. ASNT Fellowship Awards

went to students and faculty at Iowa State University, Michigan State University and Texas A&M University, while Faculty Grant Awards went to Xiaoning Jiang of North Carolina State University and Todd Sulchek of the Georgia Institute of Technology.

The banquet finished with the passing of the presidential collar from outgoing President Raymond Morasse to the 2014 ASNT President, Roger W Engelbart. President Engelbart addressed the audience on the importance of NDT and the role of the Society within it. He also thanked everyone for their support and shared some of his plans and goals as President. After the banquet, the annual after-party allowed members to meet and talk in a casual atmosphere and enjoy desserts and drinks.

The 2013 ASNT Annual Conference afforded attendees the chance to improve themselves and the NDT industry through informational forums and volunteer opportunities. ASNT thanks the participants who helped make this year's event a success. The Society would also like to thank the conference sponsors: Olympus NDT; NDT Systems; Dantec Dynamics; GE Measurement & Control Solutions; Carestream NDT; Sentinel/QSA Global; and Source Production & Equipment Co. Everyone is already looking forward to the 2014 ASNT Annual Conference, which will be held 27-30 October at the Charleston Convention Center in Charleston, South Carolina.

Society membership grows with *Member Up!* campaign

ASNT's *Member Up!* membership recruitment campaign concluded 15 October 2013. The campaign, which began 15 October 2012, yielded a total of 849 new members, including 829 individual members and 20 corporate partner members.

Throughout its duration, the campaign helped 355 ASNT members, 61 ASNT sections and 19 ASNT regions introduce their peers and colleagues to the unique advantages and opportunities the Society provides through membership. In turn, the newly-

recruited ASNT members have enlarged their professional networks, enhanced their knowledge of the industry and increased their exposure to non-destructive technical information.

Just as in the past, this member recruitment campaign promoted ASNT's mission "...to create a safer world by promoting the profession and technologies of non-destructive testing."

ASNT would like to thank all who participated in this very successful member recruitment campaign. A special thank you goes out to those recruiters who achieved diamond, emerald, sapphire or opal recruiter statuses.

The new *Powered by You* member recruitment campaign, which began 1 November 2013, is off to a great start. For more information about the current campaign, visit: www.asnt.org/poweredbyyou

Twitter, LinkedIn and YouTube social media channels opened

To address the challenges of communicating in a 24/7 world, ASNT has put efforts into improving its presence on social media.

With a recently-launched Twitter account, under the handle @ASNTinfo, the Society will be sharing news, updates and volunteer opportunities associated with ASNT. Follow ASNT at: www.twitter.com/asntinfo

The Twitter account comes in addition to a recently-launched account on LinkedIn, used to connect with NDT practitioners around the world. The properties on LinkedIn include a company page with over 1,000 followers and a discussion group with over 10,000 members. Through these channels, ASNT staff interact and help by answering questions regarding certification and other aspects of the NDT profession. Find ASNT on LinkedIn at: www.asnt.org/linkedin

Lastly, ASNT has been publishing a series of videos on its newly-created YouTube channel. The videos are topical companion pieces that correspond to the monthly issues of *Materials Evaluation*. Videos are available at: www.youtube.com/asntinfo

Digital Imaging XVII

28-30 July 2014

Crowne Plaza Hotel, Warwick, Rhode Island, USA

Now in its 17th year, ASNT's Digital Imaging Conference remains the industry's cutting-edge event.

This topical conference features the advances of digital radiography in the NDT industry.

Topics will include the following:

- Aerospace applications
- Automated systems
- Detector technologies
- Digital imaging detectors
- Production inspection applications
- Computed radiography
- General NDT applications
- Industrial CT systems
- Digital radiography
- New products/emerging technologies

Contact: The American Society for Nondestructive Testing, 1711 Arlingate Lane, PO Box 28518, Columbus, OH 43228-0518, USA. Tel: +1 614 274 6003; Fax: +1 614 274 6899; Email: conferences@asnt.org

www.asnt.org

Two new agreements foster strong NDT partnerships

The Croatia Society for Non-Destructive Testing (CrSNDT)

The American Society for Nondestructive Testing has signed an Agreement for Professional Cooperation with The Croatian Society of Non-Destructive Testing (CrSNDT). The agreement establishes a cooperative relationship in their respective areas of interest devoted to the promotion of the art, science and technology of non-destructive testing.

Aspects of the professional relationship include welcomed mutual attendance at various societal events, supplying periodic journals without cost, offering member rates for other publications and allowing concurrent membership in both societies with the privilege of identification.

Residential Energy Services Network (RESNET)

ASNT also signed a Memorandum of Understanding (MOU) with the Residential Energy Services Network (RESNET), which will result in the certification of certified RESNET Home Energy Raters to conduct infrared thermography for residential buildings.

This MOU provides that ASNT and RESNET will work cooperatively to develop an ASNT Level II certification in infrared thermography for building diagnostics. The MOU also states that RESNET requires that Home Energy Raters must hold the ASNT NDT Level II certification in order to conduct the testing under the guidelines.

Materials Evaluation now available in digital format

Materials Evaluation, ASNT's monthly journal, is now available in a digital format accessible online. Members and subscribers can read the issue by logging in through ASNT's new self-service portal, MyASNT.

Those with access can also view back issues online, since March 2013. ASNT staff have also created companion videos for each online issue that include relevant discussions with ASNT members and beyond about the monthly issue or other NDT topics.

For more information and online access, visit: www.asnt.org/me

Transactions improved with new self-service web portal

To serve the growing needs of its members, ASNT has launched a new website offering a variety of new features that make connecting with ASNT's resources much easier. The features of the website are centred on MyASNT, a self-service site that requires only an email address to log in.

With MyASNT, ASNT members and friends can access their

account information, renew or sign-up for membership online and make purchases in the new online store. MyASNT also creates faster turnaround times on transactions, resulting in more efficient output from central office staff.

In the future, new features that will be available through MyASNT include conference management, section management and the ability to communicate with other users online.

ASNT eBooks hit the digital shelves

The American Society for Nondestructive Testing is now offering 62 of its most popular publications in digital PDF format. The digital editions can be viewed on e-readers, desktops and laptops using Adobe Digital Editions or other compatible software.

Titles include: *Recommended Practice SNT-TC-1A*; *The Nondestructive Testing Handbook*, Volumes 1 to 10; *Personnel Training Publications*; *ASNT Level III Study Guides*; and more.

The new eBooks can be found in ASNT's online store at www.asnt.org/store

New ASNT Board Officers and Directors elected

Following the 2013 elections, ASNT welcomed new officers and members to the ASNT Board of Directors. Newly-elected board officers include: Raymond Morasse, Chair; Roger Engelbart, President; Terry Clausing, Vice President; and Kevin Smith, Secretary/Treasurer. Newly-elected Council Directors include: Marwan Basrawi; Tsuchin 'Philip' Chu; William Plumstead Jr; and David Savoy. Newly-elected Directors at Large include: David O Hall; Brenda L Collins; and Cindy Finley.

According to President Roger Engelbart, efforts in the upcoming year will be driven by member and community engagement: "When that opportunity comes to get involved, take it," urged Engelbart. "If you don't see it coming, go find it. Together we can shape our Society to truly reflect who we are and what we want to be."

ASNT charters new Algeria Section

On 7 November 2013, the ASNT Board of Directors approved a new section charter during a meeting at the ASNT Annual Conference in Las Vegas, Nevada. The following members have been associated with the founding of the new section:

- Djamil Benrabah
- Ryma Arfi
- Dahmane Yazid Benrabah
- Mohamed Mouloud Boutalbi
- Imad Benrabah
- Toufik Ahmed Saadi
- Tarik Zerouk
- Amine Belabid
- Abdelkarim Benissad
- Malik Bentoumi.

The Section is being chartered 'for the purpose of advancing scientific, engineering and technical knowledge in the field of non-destructive testing, through education, research and the compilation and dissemination of information useful to the individual and beneficial to the general public'.

The Algeria Section is located in Algiers, Algeria, and is in Region 19.

A banner and charter will be presented to the Algeria Section during their inaugural meeting, scheduled in early 2014.

ASNT members in the surrounding areas who don't currently affiliate with a section are invited and encouraged to affiliate with the Algeria Section.

Contact ASNT Member Services to join the Algeria Section, email: asnt_membership@asnt.org or tel: +1 614 274 6003.

For information on upcoming meeting dates, contact Djamil Benrabah, Section Chair, email: djamil.benrabah@geral-dz.com or visit: www.asntregion19.webs.com

Non-Destructive Evaluation of Aerospace Materials and Structures IV

12-14 May 2014
Crowne Plaza St Louis Airport,
St Louis, MO, USA

Organised by The American Society for Nondestructive Testing

www.asnt.org/aero

News from The Brazilian Society for NDT and Inspection

4th Forum on New Technologies and Applications of NDT and Inspection

The main technical and scientific concepts on NDT and inspection, in addition to methods and applications still under study in technological centres and universities, will be addressed during the 4th Forum on New Technologies and Applications of NDT and Inspection in Brazil.

Organised by The Brazilian Society of Non-Destructive Testing and Inspection (ABENDI), the event will be held 28-29 April 2014 in Rio de Janeiro. Its objective is to foster awareness of the importance of the application of NDT in industry and to spread the knowledge of the newest technological innovations within the market.

Tests for Certification on Explosive Atmospheres begin in 2014

ABENDI's Certification Sector has recognised the need for the application of tests to the Certification on Explosive Atmospheres process, which will begin in 2014. Candidates will be certified in accordance with the type of activity they develop, classified in the sector as Personal Competences Units (Ex). Overall, there are ten units, specifying application, execution, equipment installation and repair, projects and inspections, auditing and areas classification.

During the first stage, the system will certify professionals classified according to the Personal Competences Unit 1 (Ex-1) – Application of the Basic Principles on Explosive Atmospheres. This category is related to the expertise in equipment operation or process plants or activities of installation, maintenance and general repairs.

For this purpose, a Qualification Tests Centre (CEQ) is being structured at ABENDI, where theoretical and practical tests will be administered. Once approved, the candidate receives a certificate

and the respective identity card, listing such personal expertise and the process validity, for example three years.

Discussed over three years, this process is the outcome of a partnership between ABENDI and the Brazilian Association for Explosions Prevention (ABPEX).

ABENDI and SOBRATEMA launch certification system

The Brazilian Society of Non-Destructive Testing and Inspection (ABENDI) and The Brazilian Association of Technology and Construction (SOBRATEMA) are together launching the Certification of Professionals Involved with Planning and Implementation of Rigging's Plan. Antônio Luis Aulicino, ABENDI's Institutional Relations Manager, commented: "The certification is an advantage for certified professionals and stresses their commitment with the compliance of the established rules and with quality and safety standards. As for companies, the certification provides competitiveness gains with the improvement of services rendered, decrease of rework and accident reduction, that is, losses and damage of equipment and cargo and operators' medical leave, as well as the reduction of insurance costs." The new certification system encompasses three levels:

- *Professional Level 1 (Signaller-Moorer):* Expertise in cargo fastening, signalling and movement, and employing hoisting equipment (according to the rigging plan), under the supervision of a Level 2 or 3;
- *Professional Level 2:* Interpreting and conducting the rigging plan for cargo movement and lifting, as developed by a Level 3;
- *Professional Level 3:* Responsible for drawing-up the rigging plan and ensuring compliance with standards and specifications is enforced.

CINDE looks forward to excellent NDT in Canada 2014 Conference after successful 2013 event

From start to finish, the NDT in Canada 2013 Conference was an event to remember. On behalf of the Conference Organising Committee, we would like to extend our heartfelt



'Men in hats': NDT in Canada 2013 Conference Co-Chairs Christian Boller (left), David Craig (centre) and George Akhras

gratitude to all who participated in the NDT in Canada 2013 Conference and made it such a memorable event. There were a record number of exhibitors and sponsors who participated in the conference, as well as a number of notable researchers and keynote presentations.

2014 will also see the 5th International CANDU In-Service Inspection Workshop, held in conjunction with the NDT in Canada 2014 Conference. The Conference will be held in Toronto, Ontario, Canada, from 16-19 June 2014. For further information, visit <http://events.cinde.ca>

32nd Brazilian National Conference on NDT and Inspection and 18th International Conference on Integrity Evaluation and Life Extension of Industrial Equipment

CONAEND & IEV

18-21 August 2014, São Paulo, Brazil

Organised by the Brazilian Society for NDT (ABENDI) and the multinational Program for Integrity and Life Extension of Industrial Equipment (PROMAI)

www.abendieventos.org.br/conaend_iev

CALENDAR OF NDT EVENTS

Month	Date	Venue	Event	Contact
June 2014	10-12	Manchester UK	Eleventh International Conference on Condition Monitoring and Machinery Failure Prevention Technologies	karen.cambridge@bindt.org / amy.cooke@bindt.org www.bindt.org
	11-13	Madrid Spain	11th International Conference on Non-Destructive Investigations and Microanalysis for the Diagnostics and Conservation of Cultural and Environmental Heritage – art '14	informacion@aend.org www.aend.org
July 2014	8-11	Nantes France	7th European Workshop on Structural Health Monitoring	workshop-registration@ewshm2014.com / contact@ewshm2014.com www.ewshm2014.com
	20-25	Boise, Idaho USA	41st Review of Progress in Quantitative Nondestructive Evaluation Conference (QNDE)	kallsen@iastate.edu
August 2014	18-21	São Paulo Brazil	CONAEND and IEV – 32nd Brazilian National Conference on NDT and Inspection and 18th International Conference on Integrity Evaluation and Life Extension of Industrial Equipment	eventos@abendi.org.br www.abendieventos.org.br/conaend_iev
September 2014	3-5	Dresden Germany	31st European Conference on Acoustic Emission Testing	de@dgzfp.de www.ewgae2014.com
	9-11	Manchester UK	53rd Annual British Conference on NDT – NDT 2014	karen.cambridge@bindt.org / amy.cooke@bindt.org www.bindt.org
October 2014	6-10	Prague Czech Republic	11th European Conference on NDT (ECNDT 2014)	ecndt2014@guarant.cz www.ecndt2014.com
	27-30	Charleston, South Carolina USA	ASNT Annual Conference 2014	conferences@asnt.org www.asnt.org
November 2014	23-26	Queensland Australia	2014 AINDT Conference & Trade Exhibition	www.aindt.com.au
December 2014	1-5	Vienna Austria	International Conference on Occupational Radiation Protection: Enhancing the Protection of Workers	m.khaelss@iaea.org http://www-pub.iaea.org/iaea meetings/ 46139/orpconf2014
May 2015	10-15	Metz France	International Congress on Ultrasonics	2015-icu-metz@me.gatech.edu http://2015-icu-metz.gatech.edu
June 2016	13-17	Munich Germany	19th World Conference on NDT (19th WCNDT)	www.wcndt2016.com