



The World Organisation for NDT

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Volume 9 Issue No 2

March 2017

CHAIRMAN'S MESSAGE

Revamped ICNDT Constitution developed by the Task Group

I am delighted to wish readers of the *ICNDT Journal* a happy New Year and all our eastern friends a happy Lunar New Year! 2016 was a remarkable year for ICNDT, with the success of the 19th World Conference on Non-Destructive Testing (19th WCNDT) and the progress made by the Task Group with regards to reorganisation. ICNDT is entering a new chapter, with constitutional reforms and updates to its operating procedures (OPs).

Since approval of the motion at the 39th meeting (2nd General Assembly) of the ICNDT at Munich, the Task Group has met several times and significant progress has been made with the operating documents, led by Dr Mike Farley (Chair, Policy and General Purposes Committee (PGPC)).

ICNDT's responsibilities will be extended to include coordination of its own work with that of the regional organisations/federations. ICNDT's focus will be on global activities and the focus of the regional groups will be on regional activities and the support of local societies. The regional groups will be represented at the ICNDT General Assembly alongside the member societies, with two voting representatives nominated by each regional group/federation (one being nominated to the ICNDT Executive Committee (IEC) and both to the International Advisory Committee (IAC). As a result of these revisions, the regions will be fully involved in any ICNDT decision making and executive actions and ICNDT will have direct communication links to the regions.

The proposed revised ICNDT Constitution (Version 4), OP 3 (Recognition of regional groups), OP8 (Meetings of ICNDT and IAC), OP12 (Annual Report and accounts) and OP15 (Working groups and committees) were approved at the PGPC meeting in Oran and are ready to be submitted to the General Assembly (GA) for approval, subject to an editorial check. The plan is to implement the changes at the next meeting of the GA in 2018 (at the 12th European Conference on Non-Destructive Testing (12th ECNDT) in Gothenburg, Sweden) and to introduce the new fees structure from January 2019.

For your 2017 NDT knowledge feast, key events are lined up throughout the year. Be sure to mark your calendar and attend the global conferences on offer, such as the 8th International Conference on Certification and Standardisation in NDT in Vienna, the First World Congress on Condition Monitoring (WCCM 2017) in London and the 15th Asia-Pacific Conference for NDT (APCNDT) in Singapore, as well as the national conferences that are on offer to keep you updated.

The NDT market is expected to see further growth of 1-2% in the next quarter according to the World Economic Review, with a positive outlook and engagement of people in NDT as one global community.

I wish you all a great year ahead in NDT and hope we can all play our parts together with the support of the regional organisations and societies.

Ir Sajeesh K Babu, Chairman, ICNDT



ICNDT Working Group on NDT Education and Research

ICNDT Working Group 3 is the focal point in ICNDT for activities relating to research, education and links to higher education. At a meeting held during the 19th World Conference on Non-Destructive Testing (19th WCNDT), Dr Manfred Johannes stepped down after four years of service as Chairman and Professor Younho Cho was elected as his successor.

Current members of the ICNDT Working Group on NDT Education and Research are:

- Professor Steve Holland, Iowa State University, USA
- Ekaterina Cheprasova, Russian Society for NDT, Russia
- Professor Vjera Krstelj, Croatian NDT Society, Croatia
- Harold Jansen, SAIW, South Africa
- Professor Marc Kreutzbruck, University of Stuttgart, Germany
- Kevin Smith, ASNT, USA
- Professor Uwe Ewert, BAM, Germany
- Dr Tony Erhard, DGZfP, Germany
- Professors Robert Smith and Keith Newton, BINDT, UK
- Dr Serge Dos Santos, INSA, France
- Mike Farley, ICNDT PGPC Chairman, UK.

Key actions of the ICNDT Working Group on NDT Education and Research for the next two years, as agreed at the ICNDT General Assembly, are as follows:

- Continue to promote a register of research organisations
- Review when to update ICNDT guides on research and education
- Prepare a list of NDT books with commentary on their suitability
- Draw up a list of universities offering courses in NDT, categorising them as in the ICNDT Guide

Continued on page two



ICNDT Journal



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Published three times per year.

Editorial contributions are welcomed.

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

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

- 'ICNDT Working Group on NDT Education and Research' continued from front page
- Sponsor International Specialist Groups (ISGs), each hosted by a member society, as follows (to date):
 - Full Matrix Capture – BINDT
 - Terahertz Imaging – BINDT
 - Microwave NDT – ASNT
 - Magnetic Memory Method – RSSNDT
 - NDT of Art and Cultural Heritage – BINDT
 - NDT Reliability – DGZfP
 - Non-Linear UT – DGZfP
 - Guided Wave UT – KSNT.
- ISGs will be open to all members of ICNDT member societies and meetings will be organised on the internet to:
 - More widely promote the ICNDT Guide on Research and Development in NDT
 - Link to Academia NDT
 - Maintain the link to the World Federation of NDE Centers (WFNDEC).

Your new ICNDT Journal is available to download from www.icndt.org



FIRST WORLD CONGRESS ON CONDITION MONITORING

ILEC CONFERENCE CENTRE, LONDON

13-16 JUNE, 2017

About the World Congress

The International Society for Condition Monitoring (ISCM) and the British Institute of Non-Destructive Testing (BINDT) are delighted to invite you to this global event. The event will provide you with a unique opportunity to network with leading academics and industrialists from all over the world in the field of condition monitoring and related areas. The full programme comprises six sessions running in parallel over four days, featuring more than 252 papers from over 180 speakers, and is now available to view and download from www.wc-cm.org

Keynote Speakers

- **Tim Armit**, IEng, FInstNDT LEP
Technical Director, Level 3 Instructor and Consultant, Lavender International
- **Professor R Randall**
University of New South Wales, Australia and worldwide expert on condition monitoring
- **Professor G Shen**
President of the International Society on Acoustic Emission and President of the Chinese Society for NDT
- **Professor R Smid**
Czech Technical University, Prague and Chairman of the International Program Committee of MESAQIN

Enquiries

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Obituary

Tony Sonneveld OAM

3 May 1946 - 13 November 2016

Eulogy by Jon Maccarone OAM

I first met Tony 43 years ago when I attended the inaugural AINDT QLD Branch meeting, being chaired by this little old guy standing on a box so he could be seen above the lectern. I would have been 24 and Tony 27 at the time, so I'm not sure why I thought he was so much older than me. Tony remembered me back then as this tall, skinny guy (well, not skinny any more) and I mainly remembered the unusual box on wheels that he had attached to a leash. Apparently, the box was given to Tony by his army mates as a stir during National Service intended to enable him to inspect his troop's hats on parade as they were all taller than him.

I'm not sure exactly when Tony moved to Sydney, but he was the inaugural QLD Branch Secretary in 1973. He then joined the NSW Branch Committee later the same year. Tony went on to be NSW Branch President from 1977 to 1980 and Federal President from 1981 to 1983. He remained actively involved at Branch and Federal Committee levels right up to around 2008 to 2010. He also represented AINDT internationally on the ICNDT for around 23 years.

Without Tony's energy and drive, the book: *History of NDT in Australia* would never have been published. The idea of producing a history of NDT in Australia had been discussed at AINDT Federal Council level for at least 20 years, but for various reasons no one could make it happen until Tony took up the challenge. As Project Manager, Tony was relentless in his efforts to obtain sponsorship, as well as support from the AINDT Branches, both financially and through individual contributions, sourcing and selecting the author, being part of the editorial committee, publishing in 2004 and then promoting the end result. AINDT will be eternally grateful for his efforts in making the history happen.

Tony's significant contributions to NDT in Australia over the years were recognised by his being made an Honorary Member of AINDT in 1992 and being presented with the J H Cole Award in 2005 (Jim Cole was the founding secretary of AINDT). Tony also presented the inaugural Alex Wilson Memorial Lecture in Brisbane during the 10th A-PCNDT in 2001 (Alex Wilson was a founding member and initial President of what we now know as the AINDT).

In 2008, Tony was appointed an



Tony Sonneveld

Honorary Member of ICNDT and presented with the Pawlowski Award in Shanghai for major contributions to the promotion of NDT internationally. Numerous tributes have flowed from the many friends Tony made internationally whilst representing the AINDT.

I am fortunate to have known and worked with Tony. We attended many Federal Council meetings together in Australia, the first being in Adelaide in 1978. Tony and I were opposing personalities; despite that, we became friends and Tony always supported me at professional and personal levels and was always there pushing my cause, whatever that was. I disliked him smoking and saw to it that he was banned from doing so during meetings; however, I note that he continued smoking all the way through his ordeal, despite advice to the contrary.

I was lucky to have been a non-voting delegate attending ICNDT world conferences with Tony. The first of these for me was Rome in 2000, then Shanghai in 2008 and the last when I succeeded Tony as a voting delegate in Moscow in 2010. Memorable moments in Rome for me included when Tony and I visited the Sistine Chapel and I was discretely operating my video camera, although forbidden to do so, whilst holding it in my elbow pointing it upwards. When

I replayed the video there were many images of Tony's nostrils as he followed me around the crowded room. I recall that on our way home we stopped for a gelato and I was delighted when the shop owner told Tony to leave his store whilst he was smoking.

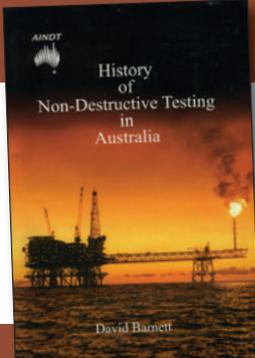
Our last international trip together in Moscow is memorable for the champagne breakfasts in our hotel. Tony would appear at our table each morning, followed by a waiter who was carrying champagne flutes for my wife and me. Also at Tony's direction, because he claimed he knew the way using the Moscow rail system, we ended up catching five trains to travel one station. Fortunately, an English-speaking Polish tourist eventually got us on the right train. On another occasion, Tony led the way through torrential rain for about 500 m with my wife trying to keep up whilst wearing high heels so we could catch a train at Tony's insistence, because it was cheaper than going by taxi. At the end of the gala dinner that same night, Tony congratulated the chairman of the conference and gave him a hug. Suddenly, they were both on the floor. The immediate response by one of our Canadian colleagues was: "Tony what have you done now?" For once, Tony was innocent. It turned out that the chairman had fainted in Tony's arms after a long night and, with the sudden unexpected weight, they both fell to the floor.

There is so much more that can be said about Tony's achievements in the NDT world. Suffice to say that Tony will be remembered as a very positive representative of NDT, both within Australia and internationally.

Being awarded the Medal of the Order of Australia (OAM) in 2010 was a well-deserved recognition of his contributions to the industry.

Tony will be sorely missed. May he rest in peace.

Published by the Australian Institute for Non-Destructive Testing



History of NDT in Australia

David Barnett

The Australian Institute for NDT has been serving Australian industry for over 40 years. This book details the history of NDT in Australia and its part in the development of a technically successful nation.

"Without Tony Sonneveld's energy and drive, this book would never have been published"

Jon Maccarone

● Soft cover
● 417 pages
● Price: £19.99

● ISBN: 0 646 432 958

Order online via the BINDT Bookstore at: www.bindt.org/shopbindt

AFRICA

The girl power behind WINDT – created by women for women

The South African Institute for Non-Destructive Testing (SAINT) has proudly celebrated its first ever Women in NDT (WINDT) Conference – A Day of Inspiration, believed to be the first event of its type in the world. This women-inspired event took place on 14 October 2016 at the Council for Scientific and Industrial Research (CSIR) in Pretoria. Over 100 female non-destructive testing (NDT) technicians, administrators and students from around the country listened to, networked with and learned from an exciting and high-powered line-up of technical and inspiring industry leaders.

“This event turned out to be everything we had planned for it to be – and more,” said Event Champion Thea Wagner, Senior Sales Representative at Gammatec SA. “Women in NDT at last know that they are not alone and that together, we are stronger.”



Thea Wagner

“I see this event as my first child because I did not know what to expect, but everything came together so beautifully,” continued Thea. “It was amazing to finally connect women in NDT with each other!”

Explaining the ‘birth’ and purpose of the Women in NDT initiative, Zanele Mgiba, an NDT Process Planner at Rotek Engineering Company Limited, said: “Despite the myriad of challenges women in NDT encounter, there are opportunities



Zanele Mgiba

for women in NDT. We need to embrace these opportunities and find solutions to the unique challenges we face. The future generation of NDT women are relying on us to do this!”

Elaine Macdonald, General Manager at the School of Applied Non-Destructive Examination (SANDE) as well as an accomplished author, scriptwriter and children’s television presenter, oversaw the day’s proceedings as Programme Director, giving the inaugural event a fun, interactive flair.



Elaine McDonald

A range of issues were covered in the programme, including:

- ‘Radiographic testing and pregnancy’ by Emma Snyman, Director of Radiation Control, Department of Health
- ‘The birth of this event and the importance of mentorship’ by Zanele Mgiba, NDT Process Planner, Rotek Engineering Company Limited
- ‘New generation woman’ by Sunithi Barends, Level 2 Welding Inspector, Murray and Roberts
- ‘My journey in NDT’ by Sharin Pillay, CEO, National NDT Services
- ‘The way in which women in the NDT industry in SA experience gender roles, attitudes and discrimination’ by Kathryn Wooldridge, Honours Student, University of Cape Town
- ‘Eve-olution, the evolution of women’ by Rochelle Slaflfa, Quality Manager, Stanley Inspection SA
- ‘Breaking ground as a woman in NDT’ by Amanda van der Westhuizen, Sales Leader, Sub-Saharan Africa: General Electric – Oil & Gas
- ‘Honouring women in NDT’ by Thea Wagner, Senior Sales Representative, Gammatec SA.

This first-ever women’s event in the NDT industry was both historic and unique and created a lasting impact on all those present. “It’s great to see so many women in a male-dominated industry; this



The WINDT Planning Committee (from left to right): Robin Marshall, SAINT, Elaine Macdonald, SANDE, Kobie Barnard, African NDT Centre, Suzaan Badenhorst, African NDT Centre, Glenda Moloop, Rotek Engineering Company, Thea Wagner, Gammatec SA, Zanele Mgiba, Rotek Engineering Company, Monica Oosthuizen, Gammatec SA, and Marie Botes, Gammatec SA

is where our voices can be heard and I couldn’t be prouder,” said Rochelle Slaflfa, Quality Manager at Stanley Inspection SA.

“WINDT is a motivating and powerful event that women in NDT can look forward to on a regular basis,” concluded SAINT President Keith Cain. “SAINT is extremely proud to have hosted not just a day of inspiration, but an opportunity to honour these women who work hard to make a difference for themselves and especially those around them.”



SAINT Council members (from left to right): Simon Wilding, Manfred Johannes, Keith Cain and Harold Jansen

The following companies were the kind sponsors of the event:

Platinum sponsors:

- National NDT Services (www.nationalndt.co.za)
- Stanley Inspection SA (www.stanleyinspection.com).

Gold sponsors:

- Dekra Industrial RSA (www.dekrarsa.com)
- Zwane Inspections (www.zwaneinspections.co.za).

Silver sponsors:

- The African NDT Centre (ANDTC) (www.andtc.com)
- MJ Nel (www.mjnel.co.za)
- SA Institute of Welding (SAIW) (www.saiw.co.za)
- Sonartech (www.sonartech.co.za).

Further support for the event was provided by:

- Gammatec NDT Supplies SOC Ltd (www.gammatecsa.com)
- Techtra Engineering Consultants (www.techtra.co.za)
- GE (www.ge-mcs.com)
- Scanbuddy (www.scanbuddy.co.za)
- School of Applied Non-Destructive Examination (www.sande.co.za)
- H. Rohloff (www.rohloff.co.za).

For more information on WINDT, visit: www.saint.org.za or www.facebook.com/SAInstituteNDT

ASIA-PACIFIC

15th APCNDT 2017 SINGAPORE

Asia Pacific Conference for Non-Destructive Testing

NDT for Enhanced Safety, Quality and Productivity

November 13 - 17, 2017
Marina Bay Sands Convention Centre, Singapore

CALL FOR PAPERS OPEN
until **31 March 2017**

Scan this QR code to find out more about abstract submission



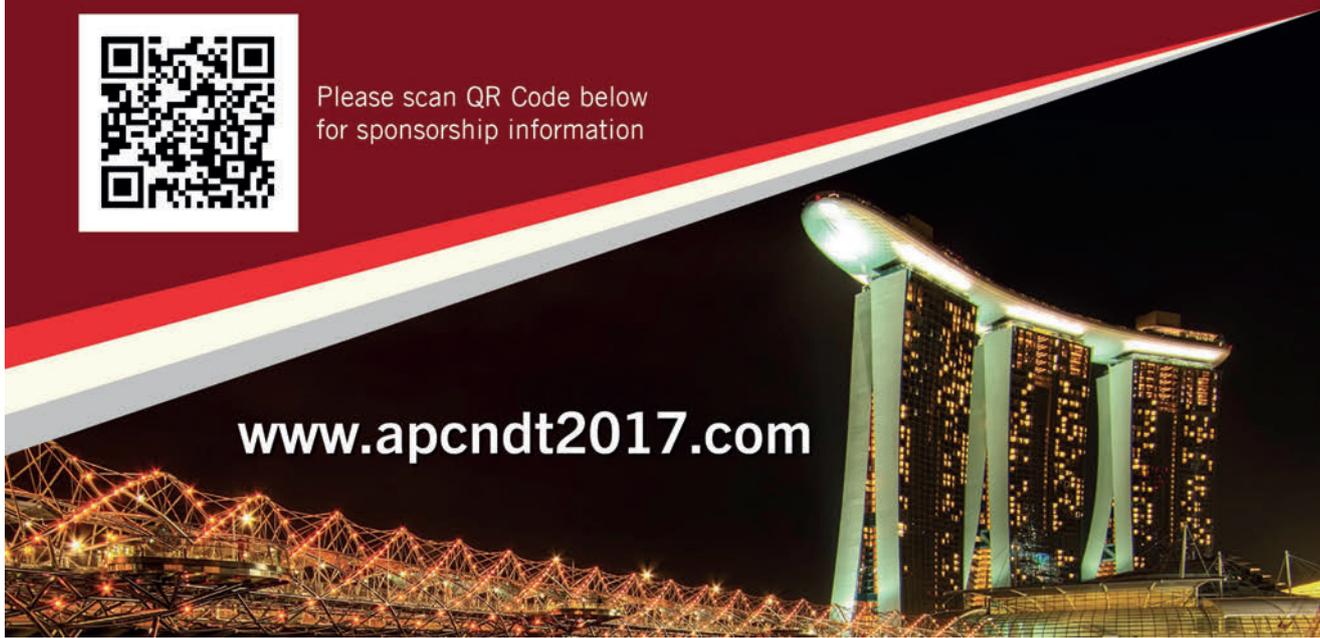
EVENT SPONSORSHIP LEVELS AND BENEFITS

Technical exhibition showcasing the very latest in NDT technologies, instrumentations and systems will be on display during the conference. The exhibition will also provide an opportunity to the delegates to interact with NDT service providers. We will be expecting about 800 delegates and visitors.



Please scan QR Code below
for sponsorship information

www.apcndt2017.com



EUROPE

14th International Conference 'Application of Contemporary Non-Destructive Testing in Engineering' to be held in Slovenia

The Organising Committee invites you to attend the 14th International Conference, titled: 'Application of Contemporary Non-Destructive Testing in Engineering', taking place from 4 to 6 September 2017 in Bernardin-Portorož, Slovenia. The aim of the conference series is to bring together colleagues from academia and industry in all novel NDT-related research areas and applications.

Conference topics will include:

- Applications of non-destructive methods for constructions testing
- Control of materials and constructions with non-destructive testing of various materials and constructions
- Mathematical modelling in non-destructive testing
- Computer-aided methods for non-destructive examination of materials and constructions
- Applications of various non-destructive methods for materials testing in manufacturing and operation
- Automation of non-destructive testing of materials and

products in mass production

- Innovations in non-destructive testing techniques
- Evaluation in indications, reliability estimations and estimation of defect acceptability
- Training, personnel qualification and certification for non-destructive testing
- Facilities and equipment qualification and authorisation of non-destructive testing
- Standards and application of standards in the fields of non-destructive testing.

For further information, contact the Conference Chair, Professor Janez Grum, at the Faculty of Mechanical Engineering, Aškerčeva 6, 1000 Ljubljana, Slovenia, email: janez.grum@fs.uni-lj.si, or the Conference Contact, Assistant Professor Tomaž Kek, at the Faculty of Mechanical Engineering, Aškerčeva 6, 1000 Ljubljana, Slovenia, email: tomaz.kek@fs.uni-lj.si

Certification 2017

The Austrian Society for Non-Destructive Testing (ÖGfZP) is pleased to announce the 8th International Conference on Certification and Standardisation in NDT, taking place from 6 to 7 June 2017 at the Austrian Economic Chamber (Wirtschaftskammer Österreich) in Vienna.

With the theme '5 years EN ISO 9712 – What's next/how to go on?', ÖGfZP aims to organise the most effective certification conference ever, influencing the start of the revision of EN ISO 9712.

The Austrian NDT society will make every effort to bring together NDT experts on ISO TC 135 and CEN TC 138, as well as NDT training and certification companies and industry representatives.

It is not too soon to start planning your personal involvement in the conference. Anyone involved in international NDT, NDT experts and those interested in dealing with NDT standardisation and the qualification and certification of NDT personnel are cordially invited to attend the event as either a speaker or a participant.

The Programme Committee has issued a second call for papers and encourages the submission of papers that present personal views of the necessary or desirable changes and adaptations of the standard.

Papers focusing on the following major aspects and topics of EN ISO 9712 are encouraged:

Aspects

- National status of the implementation
- Retrospection over the past five years
- Aspects and requirements for the future
- National alternatives (or third-party certification).

Topics

- Standardisation
- Regulation
- NDT personnel certification
- Harmonisation of qualification examinations
- Examination specimen.

The conference aims to influence the revision of ISO 9712 and contribute to making it a realisable and high-quality global standard for NDT personnel certification. It also offers a valuable opportunity for participants to exchange the latest international experiences in this field.

For further information, contact the Austrian Society for Non-Destructive Testing (ÖGfZP), Deutschstraße 10, 1230 Vienna, Austria, email: office@oegfzp.at or visit: www.oegfzp.at/de/certification.php

Call for Papers

#NDT2017

NDT2017

56th Annual Conference

5-7 September 2017

The International Centre | Telford, UK

Offers of papers are invited on all aspects of non-destructive testing. 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/ndt2017> by 21 April 2017.

The 2017 Materials Testing Exhibition (#MT2017) will run alongside the NDT conference, with over 70 companies expected to exhibit.

www.bindt.org/events/ndt-2017

Conferences and Events Department, BINDT, Midsummer House,
Riverside Way, Bedford Road, Northampton NN1 5NX, UK.
Tel: +44 (0)1604 438300; Fax: +44 (0)1604 438301;
Email: conf@bindt.org; Web: www.bindt.org



Austrian Society for
Non-Destructive Testing

8th International Conference on Certification and Standardization in NDT

5 years EN ISO 9712 – What's next / how to go on?



Vienna, 6th and 7th
June 2017

EF European Federation for
Non-Destructive Testing
NDT



PAN-AMERICA

NDT in Canada 2016 Conference and 6th International CANDU In-Service Inspection Workshop

The annual conference of the Canadian Institute of Non-Destructive Evaluation (CINDE) was another one for the record books. This was the fourth event held in cooperation with CANDU Owners Group Inc (COG) and was CINDE's best-attended conference in the history of this partnership. On day one of the technical presentations there were times when there was only standing room available in the track rooms. Presenters from across the world provided attendees with the latest advancements in NDT research and technology – one of the many reasons so many participated in the annual conference.



Barely a seat in the house – attendees watch one of the many presentations on day one of the conference

Nestled in the quaint city of Burlington, Ontario, the Holiday Inn Hotel & Conference Centre was host to over 300 conference participants over the two days of technical programming and evening events. Attendees listened intently to leading-edge research, ground-breaking advances and technological trends among the who's who of the NDT industry. From the biggest service companies and owner end users to individual contractors and researchers, the Canadian NDT community was out in full force.

The event began on the evening of 15 November 2016, with the pre-conference Mix 'n' Mingle Reception. As participants registered and received their conference bags (sponsored by The Quality Control Council of Canada (QCCC)), they entered the exhibition hall and enjoyed a relaxing evening of food and drinks among colleagues.



Participants enjoy the pre-conference Mix 'n' Mingle Reception

Day one of the event started with the Conference Co-Chairs Kevin Voit (National Chair, CINDE) and Jeff Weed (Programme Manager, CIQB – CANDU Owners Group) officially opening the conference and welcoming Carl Latiolais of Electric Power

Research Institute (EPRI) to provide a keynote speech. Carl's presentation, titled: 'Observations on NDE reliability and human performance', was very well received and began some interesting discussion among those engaged in the talk. After the presentation and a coffee break, participants attended either of the technical presentation tracks at the conference.

Attendees were impressed with the variety of topics and high quality of the papers presented. 24 different presentations were provided on the first day in a number of sessions, including: New Applications of Current NDT Methods, CANDU ISI Operating Experience, General Industry NDT OPEX, New or Enhanced NDT Technology and ISI/NDT Engineering.

With over 160 people attending the dinner, it was CINDE's largest yet. The event, sponsored by UTEX Scientific, was an excellent showcase of the networking opportunities and camaraderie that the conference is known for. Diners were treated to a delicious meal among their friends and colleagues, as well as an awards presentation.

There was also a signing ceremony prior to the dinner that would begin a partnership with colleagues 'down under'. CINDE, the Australian Institute for Non-Destructive Testing (AINDT) and Natural Resources Canada National NDT Certification Body (NRCAN NDT CB) signed Memorandums of Understanding (MOUs) that will see all three organisations work collaboratively and share materials and knowledge in the areas of training, membership and certification.

Speaking on the MOU, Peter Milligan, CEO of AINDT, said: "This agreement contains the foundation for mutual acceptance of AINDT and CGSB certification, which may eventually enable travelling technicians from either country to have their certification recognised by the relevant national certification body and work in each country respectively."

Glenn Tubrett, CEO of CINDE, reinforced the sentiments of Peter Milligan, speaking specifically on the relationship between AINDT and CINDE: "This agreement builds on the positive relationship between our two countries represented by two great organisations. AINDT and CINDE share a commitment to improving and growing the NDT sector with a focus on safety and quality. With common values and goals we can leverage the valuable work in each country to progress Canadian interests, Australian interests and the global community. We will continue to expand the cooperation with AINDT through this agreement and build similar relationships with other NDT bodies worldwide. As Canada's non-profit organisation for the people and companies engaged in NDT, NDE and inspection, our goal is to improve the industry for our members, not only in Canada but also across the world. We are stronger together!"



Left to right: Peter Milligan (CEO, AINDT), Kevin Voit (National Chair, CINDE), Neil Young (Director, AINDT), P K Yuen (Director, NRCAN National NDT Certification Body), David Bajula (President, ASNT), Glenn Tubrett (CEO, CINDE) and Philippe Dauphin (Director General, Canmet/MATERIALS, Minerals and Metals Sector, NRCAN)

Later in the evening, CINDE presented a special award to a person who has been involved in the NDT community for many years. Kim Waddell, Senior Administrative Assistant at CINDE, was given a 35-Year Service Award, on behalf of the CINDE Board of Directors, staff and members, for her dedication to CINDE and the NDT industry. John deLuca, long-time CINDE instructor and friend to Kim, presented the award after a heartfelt speech.



John deLuca (CINDE) and Kim Waddell (CINDE) with her 35-Year Service Award

The second day of the programme brought MPP Bob Delaney in to provide a keynote address. Delaney serves as the Parliamentary Assistant to the Minister of Energy. He spoke on the direction that the Government of Ontario is taking regarding energy production as well as the Darlington refurbishment plan.

Attendees were then treated to another full day of high-quality conference programming with 24 more presentations. The two main topics covered on the second day were: New or Enhanced NDT Technology and NDT Training and Performance Demonstration.

One of the presentations to note was provided by Michael Turnbow of ASME. In his presentation, he discussed the current activities of ASME and the ASME NDE/QC Personnel Certification Program (ANDE). According to the presentation by Mr Turnbow, the implementation of the Program is set for the first quarter of 2017.

P K Yuen of the Natural Resources Canada National NDT Certification Body also provided a presentation and update for attendees. In his presentation, he described the current activities of NRCan and spoke directly on a number of topics ranging from certification statistics and trends, renewals, recertification and the training and examination network, to national committee priorities and updated user fees.

CINDE would like to thank conference partner CANDU Owners Group Inc (COG) for its assistance with the conference. This was the fourth year that COG and CINDE have cooperated to provide a conference experience for NDT and inspection professionals. Both groups thank the NDT and inspection community and all the sponsors for their support and look forward to the NDT in Canada 2017 Conference.

NDT in Canada 2017 Conference heads for beautiful Québec City

The Canadian Institute of Non-Destructive Evaluation (CINDE) is proud to announce that the NDT in Canada 2017 Conference will be held from 6 to 8 June 2017 in Québec City. A beautiful and historic area, Québec City is also a hotbed for NDT research and development, technological advancement and inspection activity. With such strong support within the area, it is no surprise that this is positioned to be the best NDT in Canada Conference in the history of the event.

There is a lot of buzz surrounding the conference and it is easy to see why: NDT and inspection professionals from across the world will participate in valuable knowledge exchange, network with key individuals and gain exposure to the latest tools, trends and technology in the industry. Excellent new additions to the programme will enhance the conference experience for all attending and engagement with the NDT community will be high.

"We've increased the value for all participants at the 2017 conference," said Kevin Voit, current CINDE National Chair and Conference Co-Chair. "Exhibitors are able to invite customers to

the conference exhibition area as a part of their registration, along with a number of additional great opportunities for them."

Along with welcoming companies to exhibit, CINDE invites NDT researchers and industry professionals to present in beautiful Québec City. In support of ground-breaking research and development, CINDE has discounted presenter registrations to improve accessibility for promoting leading-edge NDT advancements. "We have made it very affordable for authors to participate in the conference – registration is only CAD\$250 and includes all aspects: breakfasts, lunches, breaks, evening events and access to the presentations and exhibitor area," added Fulvio Mini, current CINDE Vice Chair (Long-Range Planning) and Conference Co-Chair.

There are many ways to participate in the conference, from sponsoring, exhibiting and presenting to simply attending.

Those interested in attending Canada's NDT conference should visit the CINDE events website at: <http://events.cinde.ca> or contact CINDE Events, email: events@cinde.ca, for more details.

International Chemical and Petroleum Industry Inspection Technology Conference

ICPIIT 2017

17-19 May 2017
Galveston, Texas, USA

Contact: ASNT, 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

News from the Brazilian Association for NDT and Inspection

Certification system for personal competencies in explosive atmospheres

One single fault in a working environment with an explosive atmosphere, such as refineries and the petrochemical industry, can result in the loss of many lives in addition to terrible environmental impacts. It is easy to understand why. Imagine placing electrically-operated equipment in a place filled with inflammable gas or fuel dust; any spark will be cause for great concern. In addition to personal protection equipment (PPE) and constant industrial inspection, what else can be done to minimise, as far as possible, this risk? To qualify those professionals who work in such environments is an excellent strategy. This is why the Brazilian Association of NDT and Inspection (ABENDI) in partnership with the Brazilian Association for Explosion Prevention (ABPEX) jointly created a certification process for those who work under these conditions. The guidelines and requirements for qualification and certification are described in NA-017, the ABENDI standard based on an international system, which takes into account 11 units of competence in explosive atmospheres, encompassing all of the different activities performed in areas regarded as potentially subject to explosion. This means that, from now on, all those who work in this area can be qualified, independently of their functions.

For instance, the technical consultant from ABENDI, Hélio Rodrigues, stated that the unit of competence Ex001 is the one that involves most of the work of the professionals who are in this segment: "This is a prerequisite that will be demanded by the certification process of many other units of competence, such as the Ex003, applicable to the installation of equipment such as Protection Types Ex and their corresponding wiring systems, and the Ex004, for equipment maintenance in explosive atmospheres.

In general, this certification system came after companies with electrical and mechanical, instrumentation, automation and telecommunication installations in petrochemical and food industries, in oil platforms, in sugar cane and alcohol mills expressed interest in certifying their employees. Nevertheless, it is only possible to guarantee safety and efficiency standards when professionals can evidence that they are prepared to project, inspect, repair, install, operate and audit such pieces of equipment.

The Technical Consultant of Petrobras (Presidente Bernardes Refinery), Roberval Bulgarelli, explained that the need and interest in the process came from the market, notably from companies with electrical, instrumentation, automation, telecommunication and mechanical installations in explosive atmospheres, like in those areas aforementioned: "The certification of the competencies of the individuals that perform these activities is a guarantee that they know the applicable technical standards and work in the right and safe way, not only in the project or during the installation of these pieces of equipment, but also during their maintenance, inspection and repair."

Institutions join forces to improve inspection activities

As we are dealing with well-known entities with the same level of competence, it is unquestionable and efficient to establish a technical-scientific partnership between them. ABENDI and BAM (Instituto Federal de Tecnologia de Materiais e Engenharia Química – Federal Institute of Materials and Chemical Engineering Technology) share this idea. Two years ago, both signed a cooperation instrument earmarked for technological development and improvement of professionals and related activities within non-destructive testing (NDT) and inspection.

It must be stressed that BAM is bound to the German Ministry

of Economy and Energy and renowned for its technical-scientific research and testing in different areas.

Work carried out between these entities especially benefits the following segments:

- Civil construction: organise one course in concrete structure inspection and another in structure monitoring, employing optical fibres, in addition to possibly having R&D programmes together with institutes and public and private companies
- Railway: possibly establish a course to address the integrity analysis of railway tracks and deliver lectures during events on the subject
- Piping: foster debates on training, professional certification, equipment and systems homologation, among other subjects related to gas distribution pipes, ground pipes, underwater rigid pipes, flexible lines and ore pipes
- Failures analysis and prevention: establish a failure analysis committee formed by representatives of companies and entities from this area
- Wind farms: develop specific research on wind turbine blades and improve relationships with entities from the sector
- Dam monitoring: conduct a survey on those technologies that are more frequently employed in Brazil that interface with BAM with a purpose of deciding what can be improved.

It is worth mentioning that cooperation agreements never expire and the next meeting to be held between the representatives of both entities will be during the Equipment Technology Conference (COTEQ), being held from 15 to 18 May 2017 in Rio de Janeiro, Brazil.

COTEQ gathers four entities

The Equipment Technology Conference (COTEQ) is considered to be one of the most important events of Brazil's industry and has consolidated its image as a well-known venue for debates and research progress related to NDT, inspection, equipment integrity, corrosion and painting, experimental analysis of materials stress and mechanical behaviour. Scheduled to take place in Rio de Janeiro from 15 to 18 May 2017, the event will gather at least 1500 participants, including scholars, researchers, engineers, technicians and general company representatives.

The range of discussions will include 250 technical presentations, debate panels, a poster section, round-tables, special lectures and conferences.

COTEQ 2017 is a great opportunity for technical updates and to do business. For additional information, go to: www.coteq.org.br

The Brazilian Association of Non-Destructive Testing and Inspection (ABENDI)

COTEQ 2017

15-18 May 2017
Rio de Janeiro, Brazil

Including the national conference on non-destructive testing and inspection. Co-organised by the Brazilian Association of NDT.

www.coteq.org.br

News from the American Society for NDT

ASNT reduces paper burden for exam candidates through online applications

The 2016 launch of online applications aligns with ASNT's move towards a more efficient and cost-effective paperless environment. All applications for examinations are now completed entirely online to not only give candidates an intuitive, secure portal to upload required documentation, but also streamline the administrative process of gathering and assessing applications for completeness.

Soon, ASNT will launch a special National Sponsoring Organization (NSO) portal for NSOs with agreements to host computer-based testing (CBT) locations and/or assist candidates residing in that country with understanding and acquiring the required documentation for certification examinations. Recognising that language, time zone differences and postal service may be a challenge in timely communications, the NSO portal will provide an immediate communication link between ASNT and the NSO to more quickly resolve incomplete applications. Even though candidates will receive an email advising them of any application issues, the NSO portal will notify the NSO to reach out to the candidate and offer assistance.

ASNT launches computer-based testing worldwide

ASNT computer-based testing (CBT) is live to all candidates around the world. With Pearson VUE as ASNT's chosen CBT administrator, candidates will now experience streamlined scheduling with the option to schedule via phone or online 24/7 and a worldwide network of test centres, including ASNT examination partners (authorised test centres (AECs) and NSOs) from which to choose.

ASNT CTO James Bennett remarked that CBT is a win for ASNT and candidates alike: "We are confident that CBT is a tremendous benefit to meeting the diverse schedules in the NDT industry. By creating a consistent scheduling and test-taking experience for all candidates, we can ensure quality and quickly respond to any concerns."

Key benefits for ASNT and candidates include examination integrity safeguarding with added layers of security and candidate verification. Also, the majority of examination results will be given at the test site immediately.

For further information, visit: www.asnt.org/cbt

ASNT 2017 topicals set to meet today's industry needs

The topical conferences for 2017 will soon be underway. ASNT's commitment to meeting the diverse industry needs of NDT is evidenced by the production of world-class events. Mark your calendar for calls for abstracts and registration information for this year's topicals:

- **NDT of Composites 2017**
9-10 May 2017
Seattle, Washington
- **ICPIIT 2017**
17-19 May 2017
Galveston, Texas
- **Digital Imaging 20**
26-28 June 2017
Mashantucket, Connecticut
- **Ultrasonics for NDT**
28-30 June 2017
Mashantucket, Connecticut.

For current calls for abstracts, visit: www.asnt.org/abstracts and for current event information, visit: www.asnt.org/events

ASNT reaching new audiences near and far

Spreading the word about NDT and ASNT is always top priority at ASNT. Not only does ASNT host world-class events, but it also attends them. What better way to introduce ASNT and NDT to a new population than to meet them where they are? This year, ASNT will share information at the following sister and peer organisation events and STEM-focused events:

- **NACE Corrosion 2017**
26-30 March 2017
New Orleans, Louisiana
- **National Science Teachers Association Forum**
12-14 July 2017
Kissimmee, Florida
- **APCNDT 2017**
13-17 November 2017
Singapore.

This list will grow, so follow ASNT on social media to keep up with its whereabouts.

Get social with ASNT

Did you know, ASNT has social media profiles on Instagram, Twitter, Facebook, LinkedIn and YouTube? Are you following ASNT? If not, visit these platforms and catch up with what's going on at ASNT. While you're there, like a post, share news and follow ASNT! ASNT will always reciprocate with sister and peer organisations. Let's get social today!

- Facebook: www.facebook.com/asntinfo
- Twitter: www.twitter.com/asntinfo
- Instagram: www.instagram.com/asntinfo
- YouTube: www.youtube.com/asntinfo
- LinkedIn: www.asnt.org/LinkedIn

While on LinkedIn, don't forget to join the ASNT group page for technical discussions.

ASNT Annual Conference 2016

Long Beach was the site of ASNT's 2016 Annual Conference. Celebrating its 75th year as one of the premier NDT associations, the highlight of the conference was the 75th Anniversary Party held aboard the *RMS Queen Mary*.



ASNT President David Bajula addresses the audience after receiving the President's collar from ASNT Board Chairperson Kevin Smith

Visit www.asnt75.com to see the photographs from both the conference and ASNT's 75th anniversary celebrations.

CALENDAR OF NDT EVENTS

Month	Date	Venue	Event	Contact
May 2017	17-19	Galveston, Texas USA	International Chemical and Petroleum Industry Inspection Technology (ICPIIT) Conference	conferences@asnt.org www.asnt.org
	22-24	Koblenz Germany	Annual Conference of the German Society for NDT (DGZfP)	tagungen@dgzfp.de www.dgzfp.de
	30-1 Jun	Strasbourg France	'COFREND Days'	pole.communication@cofrend.com www.cofrend2017.com
June 2017	6-7	Vienna Austria	8th International Conference on Certification and Standardization in NDT	office@oegfzp.at www.oegfzp.at/de/certification.php
	13-16	London UK	First World Congress on Condition Monitoring – WCCM 2017	conf@bindt.org www.bindt.org
	18-23	Rhodes Greece	14th International Congress on Fracture (ICF14)	egdoutos@civil.duth.gr www.icf14.org
September 2017	3-7	Prague Czech Republic	Joint European Corrosion Congress 2017 and 20th International Corrosion Congress & Process Safety Congress 2017	eurocorr2017@guarant.cz www.eurocorr2017.org
	4-6	Bernardin Slovenia	14th International Conference on the Application of Contemporary NDT in Engineering	janez.grum@fs.uni-lj.si www.fs.uni-lj.si/ndt
	4-8	Potsdam Germany	7th European-American Workshop on Reliability of NDE	tagungen@dgzfp.de www.nde-reliability.de
	5-7	Telford UK	56th Annual British Conference on NDT and Materials Testing Exhibition	conf@bindt.org www.bindt.org
	6-8	Saclay France	The XXII International Workshop on Electromagnetic Non-Destructive Evaluation (ENDE2017)	www.ende2017.fr
October 2017	30-2 Nov	Nashville, Tennessee USA	ASNT Annual Conference 2017	conferences@asnt.org www.asnt.org
November 2017	13-17	Singapore	15th Asia-Pacific Conference for NDT (APCNDT)	secretariat@apcndt2017.com www.apcndt2017.com
May 2018	27-1 Jun	Poitiers France	12th International Fatigue Congress	fatigue2018@sf2m.fr www.fatigue2018.com
June 2018	11-15	Gothenburg Sweden	12th European Conference on Non-Destructive Testing (12th ECNDT)	ecndt2018@meetx.se www.ecndt2018.com