



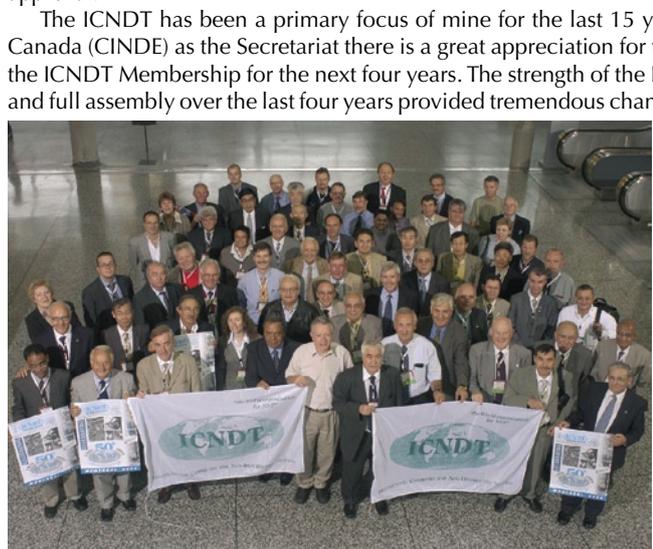
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CHAIRMAN'S MESSAGE

# Moving in a positive direction

**A**s your newly elected Chairman it gives me great pleasure to perform my first official task of wishing all a very happy and healthy New Year on behalf of the ICNDT – a New Year which I'm sure will bring us many new opportunities and challenges.

I would like to take this opportunity to thank the members of the International Committee for their vote of confidence in electing me to this position. I would also like to thank our past chairman, Mr G Nardoni for his dedication and enthusiasm throughout his Chairmanship, and I look forward to continuing to work hand-in-hand with him to ensure directional changes will continue to meet your approval.



**Douglas Marshall at the 16<sup>th</sup> World Conference on NDT last year in Montréal. The ICNDT has been his primary focus for the last 15 years**

The ICNDT has been a primary focus of mine for the last 15 years and together with Canada (CINDE) as the Secretariat there is a great appreciation for the opportunity to lead the ICNDT Membership for the next four years. The strength of the ICNDT Executive, PGP and full assembly over the last four years provided tremendous changes and improvements to our organisation. The development of the ICNDT operating procedures and guidelines was the result of the dedication of our complete organisation. The past Executive and PGP committees left behind a template for the new officers to follow and build upon. Their

*Continued on page 2*

TSUNAMI

## ICNDT offers sympathy and support

**O**n behalf of the International Committee for Non-Destructive Testing I want to express our deepest sympathy for our member countries and their surrounding neighbours for the devastation caused by the Indian Ocean Earthquake.

The undersea 2004 Indian Ocean earthquake that occurred on 26 December 2004 produced tsunamis that were among the deadliest natural disasters in modern history. The tsunamis devastated the shores of Indonesia, Sri Lanka, India, Thailand and other countries with waves of up to 15 m in height, even hitting as far as the west coast of Africa, especially Somalia, 4500 km or more west of the epicenter.

The plight of the many affected people and countries prompted a widespread humanitarian response.

Tens of thousands of people are believed to have lost their lives in 11 countries in the Asia and India region, with the largest relief effort in world history attempting to reach millions of homeless and injured survivors. The UN has estimated that the total number of deaths has surpassed 150,000 already with Indonesia reporting 95,992 dead; Sri Lanka 38,195; India 10,749; and Thailand 5,374.

Heart-wrenching stories of loss are still coming through on a daily basis. On every level, people's lives have been devastated. Our local newspapers continue to update us on the latest developments resulting from the tsunamis and although most news items are not positive the following remarks show us what our world can do to support each other in time of need;

***"We have never, ever seen anything like this. In 10 days, we've had more relief to the tsunami victims than we had to all other emergencies in the world last year. It is the standard that we should set for relief to the world in the future."***

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ICNDT Journal



**Publisher:** The International Committee for Non-Destructive Testing (ICNDT)  
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Published three times per year.  
 Editorial contributions are welcomed.  
 Articles should be sent to the Publisher at the above address.

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

**CHAIRMAN'S MESSAGE** *continued from page 1*

success provided the necessary tools to move towards the legalisation of the International Committee for Non-Destructive Testing, which will be one of the main objectives of our ICNDT during our strategic planning.

It is unusual to find an organisation that actually goes to the next level and adheres to the disciplines and procedures implemented by previous leaders without making significant changes. The outcome of the 30th ICNDT meeting indicates that ICNDT is moving in a positive direction of which a major portion of the membership fully supports.

Organisations that enjoy enduring success have core values and a core purpose that remains fixed while business strategies and practices endlessly adapt to a changing world. The ICNDT core value to treat every country equally and with respect has and will not change. The six objectives still remain:

- To assign the place and organisation of the World NDT Conference to an appropriate NDT Society or group of Societies, at intervals of four years.
- To establish with continental grouping of NDT Societies initiatives for implementing ICNDT policy.
- To encourage the formulation of International Standards on Nondestructive Testing in collaboration with the International Standards Organization, and other standards bodies.
- To be the international organisation that acts as prime focus on non-destructive testing for the benefit of the involved community and general public.
- To promote international collaboration in all matters relating to non-destructive testing.
- To encourage the foundation, growth, development and co-operation of national and regional NDT Societies.

Over the next four years the objectives of the ICNDT Committee will be:

- Complete the implementation of the ICNDT Operating Policies and Procedures.
- Legalisation of the International Committee for Non-Destructive Testing
- Develop a Business Plan with tasks and critical path for implementation of an Accrediting Body for NDT Certifying Bodies in accordance with ISO17024.
- Utilise "Best in Class" resources to improve the administration of ICNDT, ICNDT Journal, ICNDT Website, etc.

The elected members of the various committees and working groups we look to you for guidance to meet our organisations objectives, short-term objectives and our primary objective of "One Harmonised International Standard – ISO 9712".

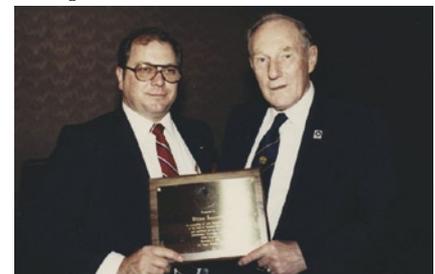
*Douglas J Marshall*

**William E Havercroft**  
 (President 5<sup>th</sup> WCNDT, 1967)

It is with deep regret that we record the death of William E (Bill) Havercroft, a pioneer in the field of non-destructive testing, who died peacefully at Ottawa Hospital, Canada, on 22 January 2005, aged 90.

One of the founding members of ICNDT, Bill Havercroft was employed by Energy Mines and Resources from 1939 until 1979. He was an Honorary Member of the Canadian Institute for NDE (CINDE) and worked extensively in training and development of NDT procedures. In 1977 he was recognised with an award named in his honour. The William E Havercroft Award is presented annually to a member of CINDE who has made an outstanding contribution towards NDT in Canada.

Bill will be remembered dearly by all in the NDT community not just in Canada but throughout the world.



William Havercroft (right) being presented with an award at the 11<sup>th</sup> WCNDT

**TSUNAMI**

*continued from page 1*

**"Support from world countries and health agencies have indicated that they are there for the long haul, not only to save lives but also to rebuild livelihoods over the next couple of years, and we must keep the momentum up."**

The World Health Organization (WHO) estimated there were more than half a million people injured and in need of medical care in six nations. Fears grew that diseases like cholera and malaria would break out among the 5 million displaced. "It is a race against time," WHO said in a report.

The ICNDT Executive and PGP Committee appeal to all our members to reach-out and assist our neighbours with support in their time of need.

*Douglas Marshall*

SHANGHAI CHINA 2008  
**17<sup>th</sup> WCNDT**  
**NDT 无损检测**  
 中国 · 世界  
**In China and the World**

## 16<sup>th</sup> World Conference hailed a great success

Under the auspices of the International Committee for Non-Destructive Testing (ICNDT), Canada was given the opportunity to host their second World Conference for Non-Destructive Testing (WCNDT). Traditionally, the WCNDT is held every four years and is rotated throughout the international community.

The Palais de Congr s, Montr al, Canada was the venue for the 16<sup>th</sup> WCNDT, which took place from 31 August – 3 September 2004. The success of this event is due entirely to the dedication and commitment of the Conference Organising Committee which was comprised of 11 individuals whose motivation was to provide attendees with the very best in World Conferences.

Opening Ceremonies were held on Monday 31 August. Douglas Whitely, WCNDT Chair, welcomed all attendees on behalf of the Conference Organising Committee. Peter Brady, Chair of the CINDE Board of Trustees provided a heartfelt thank you to all for contributing to the success of the 16<sup>th</sup> WCNDT. Dr Mike Farley, ICNDT Secretary, provided an overview of the ICNDT. Mike was then joined by Mr Giuseppe Nardoni to congratulate the winners of the 2004 ICNDT awards. Each was presented with a plaque recognising their contributions to the NDT in each of their respective areas.

### The 2004 ICNDT awards

Prof Vladimir Klyuev accepted the *Roentgen Award* on behalf of the Research Institute of Introscopy of JSC MSIA "Spectrum", Russia for their major contribution to science and technology of NDT.

For his major contribution to NDT Education, Training and Certification, Mr John Zirnhelt – Canada was presented with the *ICNDT Award*.

The *Sokolov Award* was presented to Dr Baldev Raj – India, for his major contributions to NDT Research. Mr B Venkataraman accepted the award on behalf of Dr Raj.

Anish Kumar – India, was the recipient of the *Young Achievers Award*.

For major contributions to promotion of NDT Internationally, Mr Giuseppe Nardoni – Italy, was presented with the *Pawłowski Award*.

Mr D Marshall – Canada, Dr S Vahaviolos – USA, Professor Guo – China, Mr H Thieretzbacher – Austria and Mr F Herelli - Tunisia were selected to become honorary members of the ICNDT.



Cindy Finley cuts the ribbon to officially open the 16<sup>th</sup> WCNDT exhibits. Doug Whitely (left), Peter Brady (second from left) and Doug Marshall assist in the proceedings



Mr B Venkataraman accepts the Sokolov Award on behalf of Dr Baldev Raj (India) for his major contributions to NDT research



Vladimir Klyuev receives the Roentgen Award on behalf of MSIA Spectrum, Russia for that research institute's major contribution to the science and technology of NDT



For his significant contributions to the promotion of NDT internationally, Giuseppe Nardoni (Italy) (left) is presented with the Pawłowski Award by Peter Brady



For his contribution to NDT education, training and certification, John Zirnhelt of Canada was presented with the ICNDT award



Anish Kumar (India) was the recipient of the Young Achievers Award



New honorary members of ICNDT: left to right: Professor Guo (China), H Thieretzbacher (Austria), Ferid Herelli (Tunisia), Dr S Vahaviolos (USA) and Douglas Marshall (Canada)



Left to Right: G Nardoni, S Ghia and G Gatti celebrate the recognition of the Italian Society's support for the ICNDT secretariat over the last eight years

On behalf of the ICNDT, Mike Farley presented the Italian Society for NDT (AIPnD) with a plaque in recognition of their support of the ICNDT Secretariat over the last eight years. Mr G Gatti, Mr S Ghia, Mr G Nardoni, and Mr E Tuberosa accepted the award.

Mr Douglas Marshall, President WCNDT, welcomed and thanked all in attendance for their support of the 16<sup>th</sup> WCNDT. The total number of participants in the 16<sup>th</sup> WCNDT was 2536 and these came from 59 different countries.

The Technical Programme Committee, consisting of 24 members, organised an excellent scientific programme for the duration of the five-day conference. At the opening Plenary Session the first invited speaker, Dr Yoseph Bar-Cohen, provided the audience with an overview of the future in NDT with his presentation "Biologically Inspired Robots as Artificial Inspectors – Science Fiction and Engineering Reality". The second speaker, Jean-Pierre Monchalain presented "Optical and Laser NDT: A Rising Star". The technical sessions were organised from 740 submitted abstracts. Twenty-nine invited speakers were invited to further contribute to the success of the conference.

**16<sup>th</sup> WCNDT sponsors and contributors**

Premier Sponsors: Canspec Group Inc., Fujifilm NDT Systems, GE Inspection Technologies, Kodak, MDS Nordion, R/D Tech Panametrics and Sonatest plc.

Corporated sponsors included, UTEX Scientific Instruments Inc., Canadian Institute for NDE, Dofasco Inc., National Research Council, Brady Quality Services, GE Inspection Technologies, Marick Reg, Ecole de Technologie Superieure.

Other contributors, CINDE – Ontario and Quebec Chapters, Nondestructive Testing Management Association (NDTMA).

There was a total of 403 oral abstract presenters participating. The conference also included 165 posters which were displayed over a period of three days. The CD of Proceedings included 517 full-text manuscripts.

At the official opening of the Exhibition on the Monday evening, Mr Joseph Mackin, President of ASNT and Professor Saka, JSNDI, presented the Canadian Institute for NDE with tokens of appreciation to a successful conference. Ms Cindy Finley officially opened the Exhibit Hall with the cutting of the ribbon. The Exhibit Hall housed 160 exhibiting companies/organisations from 28 different countries, an internet garden, coffee lounges, and the poster area.

Throughout the week several social functions were planned to mix a little pleasure with business.

Tuesday evening featured a concert held at the Basilica Notre Dame and "The Celebration" on the Wednesday evening was designed to create a casual, relaxing atmosphere in which delegates could meet new and reacquaint with old friends. 960 attendees enjoyed some of Montréal's, gourmet foods, a friendly gambling competition and cabaret dancing.

## ICNDT meetings in Montréal

Following the well established practice, there were three key meetings held during the Montreal World Conference. All were well attended, constructive and showed that the ICNDT is in very good shape.

### 1. Policy and General Purposes Committee

This is the committee which provides advice to the full ICNDT and brings together the members of the Executive and the representatives of the Regional Groups (Europe, Asia Pacific, Pan Americas and Africa).

#### Attendance:

Giuseppe Nardoni	<i>ICNDT Chairman – Present</i>
Douglas Marshall	<i>WCNDT Chairman – Present</i>
Dr Mike Farley	<i>ICNDT General Secretary – Present</i>
G Aufricht	<i>ICNDT Treasurer – Present</i>
Dr Baldev Raj	<i>ICNDT PGP Chairman – Apology</i>
Mr V Pari	<i>Representing Dr Baldev Raj</i>
Dr E Romero	<i>EFNDT Representative – Present</i>
Matt Gallagher	<i>EFNDT Representative – Present</i>
Joao Conte	<i>PANNDT Representative – Present</i>
Wayne Holliday	<i>PANNDT Representative – Present</i>
Tony Sonneveld	<i>APCNDT Representative – Present</i>
Les Dick	<i>APCNDT Representative – Present</i>
Dr R Link	<i>Elected Member – Present</i>
Dr S Vahaviolos	<i>Elected Member – Present</i>
Dr V Klyuev	<i>Honorary Member – Present</i>
Prof M Onoe	<i>Honorary Member – Present</i>
Dr R Murphy	<i>Chairman of ISO TC SC7 (Observer)</i>
Sergio Ghia	<i>Secretariat</i>
Irena Pushkina	<i>Observer</i>

Mr Nardoni welcomed everyone to Montreal. Dr Baldev Raj was unavoidably detained in India due to a visit from a government Minister. The Quorum (5) was met, with 12 voting members in attendance. The Minutes of the previous meeting (Jeju Island, Korea) were reviewed and approved.

Mr Nardoni presented the published version of the ICNDT Recommended Guidelines for Qualification and Certification of NDT Personnel according to ISO 9712 and suggested it was time to begin to prepare a parallel document for aerospace NDT.

The nominations for the elections for ICNDT officers were reviewed and updated. (See ICNDT 29<sup>th</sup> Meeting.)

A full report was presented on ICNDT's activities from 2000 – 2004 in the form of a Powerpoint presentation.

The provisional income and expenditure budget for 2004 – 08 was reviewed and accepted.

Dr Vahaviolos suggested that further consideration should be given to raising funds via a sponsorship drive.

Applications by Malaysia, Singapore and Latvia had been checked by Douglas Marshall and were endorsed by PGP.

A proposal from Mr Herelli to form an African Federation of NDT Societies and for this to be recognised as a regional/continental group of ICNDT was warmly welcomed and endorsed.

The results of PGP votes for each of the ICNDT Awards were announced (see report elsewhere in the Journal).

Candidates for Honorary Membership were discussed and Mr Nardoni was actioned to propose a list to the 29<sup>th</sup> Meeting.

A calendar of meetings for the next four years was agreed as follows:

ICNDT Executive	2004 Manchester
PGP	2005 Albuquerque

ICNDT Executive	2005 Milan (13-15 October)
PGP	2006 AFNDT, Cairo (February 2006)
ICNDT & PGP	2006 EFNDT, Berlin (September 2006)
PGP	2006 APCNDT, Auckland (November 2006)
PGP	2007 PANNDT, Argentina
ICNDT & PGP	2008 WCNDT, Shanghai
ICNDT	2009 13 <sup>th</sup> APCNDT, Japan

### 2. 29<sup>th</sup> Meeting of ICNDT

#### Introduction

62 countries were represented at the World Conference (34 present at the meeting). The Chairman, Mr G Nardoni, commented on the importance of the work of the ICNDT, started by our predecessors in 1954, and emphasised the importance of continuing to co-operate.

He asked for a minute's silence to remember Mr Bjarne Larsen, President of the Danish Society, who had passed away since the last meeting and also to remember all the pioneers of ICNDT who are deceased.



62 countries were represented at the 29<sup>th</sup> ICNDT meeting in Montréal

The following guests were welcomed:

Dr R Murphy	ISO TC 135 SC7 Chair
Dr Hatano	ISO TC 135 Secretary
Dr Isaac Einav	IAEA
Al Broz	FAA

The minutes of the 28<sup>th</sup> Meeting in Barcelona on Thursday 20 June 2002 were approved.

#### Awards, Honorary Members, Election of Officers

The winners of ICNDT Awards for 2004 were announced to the meeting as follows:

Roentgen Award:	Research Institute of Introscopy of JSC MSIA "Spectrum"
Pawlowski Award:	Mr Giuseppe Nardoni
Education, Training and Certification:	Mr John Zirnhelt
Sokolov Award:	Dr Baldev Raj
Young Achiever:	Mr Anish Kumar

Following discussion with the Policy and General Purposes Committee, Mr Nardoni proposed the following to become Honorary Members:

Mr Douglas Marshall,	Canada
Dr Sotirios Vahaviolos,	USA

Professor Guo, China  
Mr H Thieretzbacher, Austria  
Mr Ferid Herelli, Tunisia

These nominations were agreed unanimously.

## Executive Summary

Dr Farley presented a list of the candidates for the elections to be held at the 30<sup>th</sup> Meeting.

Dr Farley presented a report on the activities of ICNDT during the previous four years. A copy is appended to the Minutes.

It was agreed to delay the report on WG3 Research and Education to the 30<sup>th</sup> meeting.

Recommendations by Professor Onoe on the improvement of the Website and use of the internet will be implemented by the new Executive. (This can be found at <http://www.ricoh.co.jp/net-messena/NDTWW/INTERN/ICNDT/ICNDTNET/ICNDTNETv4.html>).

The report on the expenditure on behalf of ICNDT by the Italian Society for NDT was noted. Mr Aufricht confirmed that the expenditure had been correctly incurred in the pursuit of the objectives of ICNDT. The total expenditure greatly exceeded the Italian Society's commitment of 25% of the surplus from the 15<sup>th</sup> WCNDT. Mike Farley expressed the thanks of ICNDT to the Italian Society and advised that there would be a more public acknowledgement during the Opening Ceremony. Mr Gatti (AIPnD) responded, stating that the Italian Society had made its investment because it was convinced of the importance of the work of ICNDT. It is important that this work continues.

## Budget

The budget for 2004/08 was accepted and the new Executive were actioned to divide tasks among the Societies who are volunteering support following the elections.

There was general discussion around the need to incorporate ICNDT as a legal entity and to levy membership fees. The following proposal was passed unanimously:

"ICNDT request the Executive to prepare detailed proposals for incorporation of ICNDT as a legal entity to be presented for approval at the 31<sup>st</sup> ICNDT meeting in Berlin".

It was reported that PGP were also considering asking for donations from commercial sponsors.

## Membership

Douglas Marshall advised that the applications of four new members had been endorsed by the PGP following review by the Membership Chairman. These were:

Malaysian Society for NDT  
Singapore Society for NDT  
ATND Association on Nondestructive Testing of Moldavia  
Latvia

These applications were approved unanimously.

The application of the African regional group, AFNDT, for recognition as a regional/continental group in ICNDT was approved unanimously. Mr F Herelli (Tunisia COTEND) was thanked for his efforts and IAEA for its support.

## Regions

**Asia Pacific (APCNDT):** Les Dick introduced himself as the new Chairman and advised that New Zealand will host the 12<sup>th</sup> Asia Pacific NDT Conference in Auckland on 5-10 November 2006. A meeting of the APCNDT will be held during the week of 16<sup>th</sup> WCNDT.

**Pan-Americas (PANNDT):** Joao Conte confirmed that he and Mr Wayne Holliday are the nominated representatives. A meeting of the committee will be held during the 16<sup>th</sup> WCNDT. The next conference will be in 2007 in Buenos Aires.



**Dr Mike Farley, General Secretary of ICNDT**

**Europe (EFNDT):** Mike Farley advised that EFNDT was healthy with 27 members. He had become President in 2003 for three years, and BINDT had taken over the Secretariat for the same period. A new Strategic Plan has been established (details available at [www.efndt.org](http://www.efndt.org)). EFNDT is continuing to develop its Mutual Recognition Agreement for Personnel Certification and has opened this to countries outside Europe.

**Africa:** Mr Herelli reported on the formation of the AFNDT Federation with Professor Mahmoud Schaffai as Chairman. There are presently four member societies of ICNDT in Africa and contacts have been established in a total of 17 African countries. A newspaper has been published and circulated at the 16<sup>th</sup> WCNDT. Valuable assistance is being provided by IAEA. A Regional conference is planned for February 2006 in Cairo, Egypt.

## World Conferences

**16<sup>th</sup> WCNDT, Montreal:** Douglas Marshall, WCNDT President and Douglas Whitely, WCNDT Chairman, were congratulated on the arrangement for the 16<sup>th</sup> WCNDT. The following statistics were advised to the meeting:

Number of Registrations	2127 (attendees and exhibitors)
Exhibiting companies	160
Exhibition area	27,500 sq.ft (approx. 2,700 sq m)
Abstracts received	740
Abstracts accepted	400 for oral presentation, 28 special presentations, 164 posters
Premier sponsors	7

Douglas Marshall expressed thanks to the Organising Committee, with a special mention of Dr Jean Bussierre, who had prepared the Scientific Programme. A scanning device at the doors of each room allowed recording of attendance in each technical session and individuals were able to print out a personalised record of attendance suitable for use in Certification Continuous Education/records.

**17<sup>th</sup> WCNDT, Shanghai:** Presentation delayed to 30<sup>th</sup> Meeting.

**18<sup>th</sup> WCNDT, 2012:** Presentations were made by Tony Sonneveld of the Australian Institute of NDT, Matt Gallagher of the British Institute of NDT and Amanda van der Westhuizen of the South African Institute of NDT. Members were reminded that the ballot would be held at the 30<sup>th</sup> Meeting.

## External liaison

**IAEA:** Dr Isaac Einav (NDT Technical Officer) gave an excellent presentation on the activities of the IAEA in the field of NDT. The

objectives, which exactly complement those of ICNDT, are:

- ❑ Promotion of NDT Technology to Member States
- ❑ Developing new nuclear technology for NDT (CRP)
- ❑ Supporting ISO 9712
- ❑ Promotion of international harmonisation for training and certification of NDT personnel
- ❑ Assistance in establishing national accreditation and Certifying Bodies
- ❑ Encouragement to establishing professional NDT societies
- ❑ Strengthening the co-operation with ICNDT.

These objectives are achieved through Co-ordinated Research Projects, IAEA publications and Technical Co-ordination focused on developing countries. There is currently a strong interest in West Asia. More emphasis will be placed in 2005 on introducing advanced technologies with a continuation of work on training and certification of personnel. It is hoped to strengthen co-operation with ICNDT.

**ISO TC135 Non-Destructive Testing:** Mr Nardoni welcomed Dr Takagi (Chairman of TC135) and Dr Hatano (Secretary of TC135) and emphasised the importance of co-operation between ICNDT and ISO. A short presentation by Dr Takagi was given on the activities of TC135, with the emphasis on SC7 (Personnel Certification/ISO 9712) and the SC7 WG (Performance Based Certification) which had met in Montreal. Discussion is underway on how to clarify the overlap/dividing point between ISO 9712 (TC135) and ISO 11484 (TC17) which is primarily for steel tubes but being considered for extension to all steel products.

**Mr Alfred Broz** of the FAA thanked ICNDT for inviting him to the meeting as an observer. He continues to follow and support the work of ICNDT with interest.

### 3. 30<sup>th</sup> Meeting of ICNDT

#### Introduction

The Chairman, Giuseppe Nardoni, welcomed the attendees. Each of the party member societies present was presented with a membership plaque (courtesy of the Canadian Society), an ICNDT flat (courtesy of the Italian Society) and a group photograph.

Mr Nardoni expressed his thanks to the Canadian Society for their excellent arrangements for the 16<sup>th</sup> WCNDT and for the ICNDT meetings. He was particularly complimentary on the subject of the exhibition.

Forty members were present.

#### Procedures

The General Secretary reminded members that voting was one voting delegate per member society. Mr Poudrai (France) and Mr Rossi (Brazil) were appointed as Tellers. Austria announced it had a general proxy for Switzerland, Czech Republic and Poland. Australia had a proxy for the World Conference only from Pakistan. Malaysia, Singapore and Latvia were welcomed to their first meeting as members.

#### Membership

Douglas Marshall reported on a meeting of the Membership Committee (Douglas Marshall, Emilio Romero and Tony Sonneveld) held during the 16<sup>th</sup> WCNDT. Following the approval of four applications at the 29<sup>th</sup> Meeting of ICNDT on 29 August, consideration was given to applications from three countries with the following outcomes:

1. Colombian Welding and Testing Society – already a member since 1989, the above Society will now be the official representative
2. Serbia NDT Society – English translation of application required. The Secretariat will seek this directly or via EFNDT (Serbia already accepted as a member)
3. Vietnam Society for NDT – The Society had contacted

the Secretariat prior to the World Conference requesting membership but had failed to submit the requested paperwork. The Secretariat will follow up.

#### Election of Officers

The new Executive Committee and PGP Committees were announced.

Mr Nardoni and Mr Marshall polled 20 votes each. Mr Nardoni advised the meeting that he would stand down and allow Douglas Marshall to take the ICNDT Chairmanship. As Immediate Past Chairman, Mr Nardoni will serve ICNDT as PGP Chairman. The meeting warmly applauded Mr Nardoni's solution to the stalemate situation and members congratulated Douglas Marshall as the new ICNDT Chairman.

Following a secret ballot for the election of two individual members at large among four candidates (Link, Prevorovsky, Grum and Sonneveld), Dr Link and Mr Sonneveld were elected.

Britain advised that following the election of Douglas Marshall as Chairman, it would withdraw its own candidature for Secretariat in favour of the Canadian Society.

Dr Link asked for a show of hands to confirm those candidates for which elections had not been necessary:

General Secretary	Mike Farley
Secretariat	Canadian Institute of NDE
Treasurer	Austria
Trustee of Fund	V Klyuev

The list was approved unanimously.

#### 17<sup>th</sup> World Conference, 2008

Professor Rong Sheng Geng, President of the 17<sup>th</sup> WCNDT, announced:

- ❑ Date under consideration ~Summer 2008, perhaps immediately after the Olympics in Beijing
- ❑ Request for articles for NDT in China and the World
- ❑ Sponsorship arrangements have been made with GE Inspection Technologies
- ❑ Website [www.chsndt.com](http://www.chsndt.com) established
- ❑ Canada will hand over accounts, database, statistics on sessions and publish information to help China and future conference holders.

#### 18<sup>th</sup> World Conference, 2012

Following a brief few words from Matt Gallagher (Britain), Tony Sonneveld (Australia) and Amanda van der Westhuizen (South Africa), a secret ballot was held. Votes cast were Australia 13, Britain 10 and South Africa 18. Mr Nardoni congratulated South Africa and offered the backing of members of the ICNDT.

#### Presentation on WG3 – Research and Education

A presentation was given on behalf of Dr Baldev Raj by Mr B Venkataraman. Actions recommended are to be considered further by the Executive Committee.

#### Report on ICNDT Certification Seminar

It was announced that following the Certification Workshop during the 16<sup>th</sup> WCNDT, two new working groups would be formed:

1. NDT Guidelines for Aerospace – Chairman Mr Nardoni (Italy)
2. NDT Practical Examinations – Chairman Mr Luiz Cesar de Almeida (ABENDE)

Volunteers' names are being collected by the Executive.

#### Strategic Planning of ICNDT Activities

The Executive will carry out a strategic analysis and prepare a "business plan" which will include the incorporation of ICNDT as a legal body.

Mr Holliday (ASNT) commented that he had found his first

round of ICNDT meetings both interesting and valuable and was pleased to reconfirm ASNT's support of ICNDT. ASNT has members in 85 countries and is keen to maintain an international outlook.

Professor Amos Notea of Israel proposed that ICNDT should take a strong interest in NDT in the services of public security (anti-terrorist diagnostics). There was unanimous support for this proposal but some concern how to name the action. The Executive agreed to prepare proposals for a new Working Group.

Full minutes of the three meetings and listings of committees are available on the ICNDT website, [www.icndt.org](http://www.icndt.org)

(Report by Dr Mike Farley, General Secretary, ICNDT)

## Executive Committee

In conjunction with the Certification 2004 Conference, hosted by BINDT in Manchester, UK – 1 – 5 November 2004 the ICNDT Executive also met.

Present for the meeting were, voting members; Douglas J Marshall, Giuseppe Nardoni, Mike Farley, Gerhard Aufricht; invited guests - Matt Gallagher, Dr R Link, Dr V Klyuev, Sharon Bond and Irena Pushkina.

During discussions it was recognised that the version of the ICNDT constitution, which was distributed during the 16<sup>th</sup> WCNDT, was not the most recent. The latest is revision 6 which is currently posted on the ICNDT website and which will be redistributed at the next ICNDT meeting scheduled to be held in Shanghai, 2008 during the 17<sup>th</sup> WCNDT. For current information on the ICNDT Constitution visit the ICNDT Website at [www.icndt.org](http://www.icndt.org).

Two functions of the ICNDT Secretariat have been delegated to other member countries.

The German Society will take over the function of maintaining the website, which is currently in the production stage and should be totally functional within the next month or two.

The ICNDT Journal will be the cooperation between two societies. Both the Italian Society and the British Institute of NDT will share the duties for

the production of the ICNDT Journal. The Journal will be produced 3 times per year and will no longer be printed in mass production but rather will be posted electronically on the ICNDT website for all to download.

Members of the Executive and the Journal Committee would like to express the importance of participation of the Regional Groups. It is the wish that all societies will also take part by providing their region reps with information on what is taking place in their community. To disseminate this information in an orderly and timely fashion all societies are asked to forward information to the ICNDT representative for their region:

### Asia-Pacific:

L Dick – [ljedick@ndt.co.nz](mailto:ljedick@ndt.co.nz)  
O-Y Kwon – [okwon@inha.ac.kr](mailto:okwon@inha.ac.kr)

### Europe:

E Romero – [informacion@aend.org](mailto:informacion@aend.org)  
V Krstelj – [vjera.krstelj@fsb.hr](mailto:vjera.krstelj@fsb.hr)

### Pan-America:

J Conte – [abende@abende.org.br](mailto:abende@abende.org.br)  
W Holliday – [wholliday@asnt.org](mailto:wholliday@asnt.org)

### Africa:

M Schafy – [shafy@maktoob.com](mailto:shafy@maktoob.com)  
F Herelli – [herelli.f@scncff.com.tn](mailto:herelli.f@scncff.com.tn)

For a full report on the 16<sup>th</sup> WCNDT Conference please see page 3.

The next scheduled meeting of the Executive Committee and the PGP Committee is during the week of 14-18 March 2005 as part of the ASNT Spring Conference to be held in Albuquerque, New Mexico.

## Current Structure of the ICNDT

### Executive Committee

ICNDT Chair – Douglas J Marshall  
ICNDT Past Chair – Giuseppe Nardoni  
ICNDT General Secretary – Mike Farley  
ICNDT Treasurer – Gerhard Aufricht  
WCNDT President – Rong Sheng Geng  
Membership Chair – Tony Sonneveld

### Policy and General Purpose Committee

Chair (Immediate Past Chair of ICNDT) – Giuseppe Nardoni  
ICNDT Chair – Douglas J Marshall  
ICNDT General Secretary – Mike Farley  
WCNDT President – Rong Sheng Geng

## Vice Chairs

### Asia-Pacific:

L Dick (New Zealand), O-Y Kwon (Korea)

### Europe:

E Romero (Spain), V Krstelj (Croatia)

### Pan-American:

J Conte (Brazil), W Holliday (USA)

### Africa:

M Shafy (Egypt), F Herelli (Tunisia)

## Elected Members

Baldev Raj (India)  
Rainer Link (Germany)  
Tony Sonneveld (Australia)

## Honorary Members

Listed below are honorary members who are not included above:

H Kopineck  
Prof de Meester  
Mr Singharia  
M Onoe  
V Klyuev  
S Vahaviolos  
C-B Guo  
Dr Theiretzbacher

## ICNDT Committee Chairs

WG1 – Certification: Mike Farley  
WG2 – Internet: M. Onoe  
WG3 – Research & Education: Baldev Raj

## World Conference Organising Committee

17<sup>th</sup> WCNDT President – Rong Sheng Geng  
17<sup>th</sup> WCNDT Chair – Shen Jianzhong  
17<sup>th</sup> WCNDT Secretary/Finance Chair – Xu Yongchang  
Immediate Past WCNDT President – Douglas J Marshall  
Exhibition Chair – Zhu Yaqing  
Chair, COC – Cai Anding  
Technical Committee – Shen Gongtian

## ICNDT Secretariat

Please refer to :  
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CINDE - Canadian Institute for NDE  
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L8N 3T2 Canada  
Tel: (905) 387-1655 ext 22  
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Douglas J Marshall



Giuseppe Nardoni



Mike Farley



Gerhard Aufricht



Rong Sheng Geng



Tony Sonneveld

## Looking ahead together

With the nomination of NZNDDTA as hosts of the 12<sup>th</sup> APCNDT 2006 Conference back in 2001, the emphasis of this small association has had to change, somewhat markedly.

Towards this goal we have made an effort to be represented in international matters. Following attendance at Brisbane 2001, we also attended Jeju 2003 and lately the 16<sup>th</sup> WCNDT in Montréal.

The World Conference was the first official launch of the 12<sup>th</sup> APCNDT display booth and conference material, with the website [www.APCNDT2006.com](http://www.APCNDT2006.com) coming online at the same time. The standard of this display and the interest it attracted is a credit to all involved and would not have been possible without the support of APCNDT member societies, who have committed funds to assist New Zealand in the hosting of 12<sup>th</sup> APCNDT 2006.

It is the coming together and support of one another that continues to grow the Asia Pacific Region, with our membership initiatives resulting in the unanimous acceptance of the Indian, Malaysian and Singaporean Societies into the APCNDT at the World Conference in Montréal. These members bring with them skills and diversification that can only enhance the standing of the APCNDT in the international arena and also by way of numbers, our effectiveness. The region now represents eleven member societies with literally thousands of individual members.

In the time running up to 2006, it is hoped to also attract regions such as Vietnam, the Philippines, Mongolia, Pakistan, Indonesia, Sri Lanka and finally Bangladesh who were in fact represented at our APC meeting in Montréal and we thank them for attending.

"Looking ahead together", the theme of the 12<sup>th</sup> APCNDT Conference, has led the AINDT (Australia) and the NZNDT societies to sign a memorandum of undertaking at Montréal, which will see both societies working even closer together and



Left to right: Andy Rowe, Doug Marshall, Les Dick, Sharon Bond and John Thompson toast at the end of the 16<sup>th</sup> WCNDT



Left to right: Les Dick, Andy Rowe and Ian Baggott at the 12<sup>th</sup> APCNDT stand in Montréal

ultimately forming one large society following APCNDT 2006.

The APCNDT is also to launch an "Asia Pacific Regional Journal" as proposed by JSNDT and KSNT, following an initial period of a newsletter style format, to gauge interest and acceptance that this journal would become a regular item for the region.

JSNDT (Japan) is to host the 13<sup>th</sup> APCNDT, now moved to 2009 to avoid a clash with conferences in Europe (this clash has unfortunately not been avoided for 2006, as the date was set in 2001). However, subsequent conferences should then fall back out to every four years, as per our bylaws.

So 2013 is available if member societies wish to bid to host this event.

Other initiatives of the APCNDT / ICNDT will be met in the coming months with the formal approval of named representatives to the PGP, plus editorial positions on international standards committees such as ISO 9712, the NAS 410 / EN 4179 joint standard and the establishment of an APCNDT Working Group on Qualifications and Certification to ISO 9712. I wish to thank personally all the members who volunteered to fill these positions and we look forward to their meaningful input.

As the current Chairman / President of APCNDT I look forward to continuing the communication, support and development of our regional group to the betterment of this region and all member societies and also towards harmonisation and recognition of international standards and relationships. This will be achieved with your support and with groups such as IAEA supporting our initiatives.

We wish you all well and encourage you to get involved in the IAEA & ICNDT sessions in the week leading up to the 12<sup>th</sup> APCNDT Conference, 5-10 November 2006, in Auckland, New Zealand.

*Les Dick, President APCNDT*

**APCNDT 2006**

Auckland, New Zealand  
5 - 10 November 2006

5th - 10th November 2006  
Aotea Centre  
Auckland, New Zealand  
[www.apcndt2006.com](http://www.apcndt2006.com)

12<sup>th</sup> Asia-Pacific Conference on  
Non-Destructive Testing 2006

Looking Forward - Together

**EFNDD becomes Associated Member of EUROLAB**

During the 4<sup>th</sup> meeting of the Board of Directors of EFNDD (14 May 2000 in Zeuthen, Germany) it was agreed that EFNDD will follow an invitation of EUROLAB aisbl to become associated members. During the General Assembly of EUROLAB aisbl in Edinburgh (4-5 October 2000), Dr Farley, as member of the Board of Directors, made a presentation on EFNDD and this was well-received. EUROLAB installed a new member group called "international affiliates", of which EFNDD is the first. International affiliates may speak in meetings but have no voting rights.

EUROLAB (European Federation of National Associations of Measurement, Testing and Analytical Laboratories) was

created in Brussels on 27 April 1990 on the basis of a memorandum of understanding, signed by delegations representing the private and public laboratories of 17 out of the 19 countries of the EC and EFTA. Since October 1998 EUROLAB is a legal entity in the form of an international association under Belgian law. EUROLAB aims to support its members interests and to help them in technical, regulatory and quality management matters, aiming at simplification and international harmonisation of regulations concerning competence and performance of laboratories. It is a European multi-sectorial form for laboratory and conformity assessment services, making product certification and technical evaluation more visible.

EFNDD will be represented in EUROLAB aisbl by Hannelore Wessel from DGZfP e.V.

**The Norwegian Society for NDT**

The Norwegian Society for Non-destructive Testing (NSDNT) was founded in 1972.

Today, the NSDNT has approximately 500 individual members.

The main activities of the Society are:

- ❑ to arrange an annual NDT conference which will take place in May/June every year, with 120 – 150 participants. This year's conference will be arranged in Stavanger, 29-31 May 2005
- ❑ to arrange a seminar for Level 3 personnel. This year's seminar will be arranged in Oslo, 14 and 15 November 2005
- ❑ to publish a technical journal, NDT- Informasjon with three issues annually
- ❑ to maintain an up-to-date web-site: [www.ndt.no](http://www.ndt.no)
- ❑ to participate in ICNDT and EFNDD meetings and conferences

The main personnel certification scheme in Norway is EN 473, incorporating additional requirements from the former Nordtest scheme to form the combined system called EN 473/Nordtest.

The Norwegian Society for NDT has been a member of the ECNDT and ICNDT for many years, and is today a full member of the European Federation for NDT (EFNDD)

Secretariat address:

Norwegian Society for Non-destructive Testing, c/o FORCE Technology Norway AS, PO Box 100, N-1376 Billingstad, Norway. E-mail address: [secretariat@ndt.no](mailto:secretariat@ndt.no)  
President: Mr Rune E Kristiansen

**9<sup>th</sup> European Conference on Non-Destructive Testing**



The DGZfP invites

**researcher • user • manufacturer • service provider**

of all fields of Non-Destructive Testing, to active participate in the preparation of an interesting and informative programme by submitting a contribution as oral or poster presentation and to present your research and development results or new NDT products at the ECNDT 2006 Exhibition.



Estrel Convention Center

**The Event for NDT**  
September 25 - 29, 2006

Organized by



GERMAN SOCIETY FOR NON-DESTRUCTIVE TESTING E.V.



DGZfP. e.V. • Max-Planck-Str. 6 • 12489 Berlin • Germany

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<http://www.ecndt2006.info>

**European Federation for NDT Membership**

Country	Acronym
Austria	OGZfP
Belarus	BANK & TD
Belgium	BANT
Bulgaria	BGSNDT
Croatia	CrNDT
Czech rep.	CNDT
Denmark	DSNDT
Finland	Finnish NDT Committee
France	COFREND
Germany	DGZfP
Greece	HSNT
Hungary	HONDT
Ireland	IIWEI
Italy	AIPND
Netherlands	KINT
Norway	NSDNT
Poland	SIMP
Romania	ARoEND
Russia	RSNDT&TD
Slovakia	SSNDT
Slovenia	SSNDT
Spain	AEND
Sweden	FOP
Switzerland	SGZP
Ukraine	USNDT
United Kingdom	BINDT

## AFRA Regional Report

**N**on-destructive testing is a vital tool in quality assurance of industrial products and construction activities as well as for plant life estimation and extension studies.

Therefore in developing countries, the effective use of NDT is of particular importance to ensure the proper performance of equipment, to verify the integrity of large investment projects and also to inspect imported products and services. Member states of the AFRA region are in the process of industrialisation and there is now, more than ever, the need to bring NDT technology into the region.

AFRA has been assisting its member states in the field of NDT methods with particular emphasis on capacity building for certification and qualification of NDT personnel, upgrading of available infrastructure as well as bridging the gap between the advanced countries and the others where the expertise is still needed. This has resulted in the introduction and partial establishment of NDT technology in most of the countries.

### Cameroon

At the moment there is no NDT Society that has been formed and no National Certifying Body to ISO 9712 is planned. So far, six technicians have been trained to level two in UT and RT, while two other technicians have been trained in MT and ET in addition to UT and RT.

### Egypt

There is currently no National Certifying Body to ISO 9712 but national training in basic NDT methods has been on-going since 1986. A national NDT standard has been drafted and proposed for implementation.

### Mauritius

The Mauritius Standards Bureau (MSB) houses the NDT project. However, due to the limited volume of NDT activity, few people are trained overseas. There are no immediate plans to establish training or a certification body due to limitations of activities, though an NDT Committee exists. The MSB is currently seeking accreditation of its NDT activity by the Mauritius accreditation services.

### Morocco

There are five level 3s certified by COFREND in France. There is a technical

centre with some NDT facilities but it does not undertake NDT qualification according to ISO 9712 standard. There are about 20 NDT service companies; some of the larger ones having their own NDT facilities.

### Namibia

There is currently no AFRA activity to date but NDT personnel training is required. Presently, most NDT works are undertaken by expatriates.

### Nigeria

An established NDT centre and National Certification Body exists and NDT training is well established. Nigeria is an active participant in all AFRA NDT affairs. Presently, Lloyds-approved experts are imported to monitor NDT examinations and so result in independently tested qualifications. Some 20 level 1s and 15 level 2s and 3 training courses are planned. Plans are underway to establish an NDT Society.

### South Africa

RSA has a well-established NDT infrastructure. The region of South Africa has extensively supported AFRA activities since 1995 in terms of training, practical industrial experience, equipment service and calibration. An NDT centre is available as an AFRA Designated Centre for Anglophone countries. An AFRA database has been established and is being updated. The

RSA has an NCB which meets ISO 9712/EN 473 specifications in partnership with PCN of UK. A national NDT Society, SAINT, has been in existence for some 30 years. The RSA also has established the South African Qualification Authority (SAQA) to accredit NDT training and certification for inclusion in the National Qualification Forum.

### Algeria

Research projects for complete NDE materials evaluation in all NDT methods are running in two laboratories. A national database is in preparation. A well-recognised NDT industry exists. Additional assistance is required to initiate Level 3 training. A national certifying committee has been established but there is no NCB as yet and no NDT Society.

### Libya

The use of NDT methods and techniques is

well established but most of it is undertaken by foreign companies. Training courses in radiography Levels 1 and 2 have been planned and the related training facilities are already completed.

### Ghana

Local training is on-going in UT, RT, PT, MT and Thickness Measurement. A concerted effort to create public awareness of NDT is showing results.

### Tanzania

There is limited NDT activity at present and this consists mainly of Government work and a few private industrial concerns. There are obstacles to establishing a local NDT Society as users are widely dispersed. However, there is positive co-operation between the University, the private sector and selected government departments.

### Kenya

Excellent public awareness has been achieved and is still on-going. An NDT Society exists and extensive personnel training assistance is well-utilised. Current membership of the society is 200 members as well as five corporate members. An NCB was established in 1996 and a National NDT Training Centre is also designated at the Materials Testing and Research Department of Ministry of Roads and Public Works.

### Congo

The main NDT applications relate to air/sea transport, oil industries and some mechanical engineering concerns which require primarily RT and UT. There is a need for personnel training as well as basic NDT training equipment.

### Tunisia

CETIME has been organising NDT training and certification of personnel in four basic methods (RT, UT, MT, PT) at level 1 and 2 since 1996.

Up to now, 450 personnel have been certified to Level 1 and 2 in Tunisia and seven level 3s. CETIME is selected as an AFRA Designated Centre for French speaking countries in Africa. The current major project is aimed at the Accreditation of an NDT Training and Certification Centre to meet ISO 9712 requirements. An internal audit has been made to prepare the Centre to host designated regional activities. The second major project is aimed at the installation of a periodic gamma-projector maintenance laboratory. A well-managed NDT Industry is in existence to meet the demand, which may be reflected by some 20 level 1 and level 2 courses, which are planned.



Amanda van der Westhuizen (centre) represented South Africa at the 16<sup>th</sup> WCNDT

## Las Vegas hosts successful 2004 ASNT Fall Conference and Quality Testing Show

**A**SNT's Fall Conference and Quality Testing Show, held 15-19 November 2004, saw a strong professional programme matched with innovative exhibitions and productive committee meetings, all coming together in the Riviera Hotel, Las Vegas, Nevada. The event was a notable success for the Society, as over 1450 NDT professionals from 24 countries took part in the conference. The professional programme saw 106 papers presented in 31 sessions devoted to a broad spectrum of NDT technology and applications. The Quality Testing Show showcased the latest in NDT products and technology, with 103 exhibitors with 142 booths filling the exhibit hall in what attendees considered one of the best shows in memory.

ASNT National Conference Chair and Professional Programme Chair Claudia Kropas-Hughes coordinated the professional programme sessions which were divided into three and, at times, four concurrent sessions. They focused on topics including computed tomography, data acquisition and recording, imaging technologies and testing aerospace components.

Dr R Bruce Thompson, of the Center for NDE, Iowa State University, presented the Lester Honor Lecture and Keynote Address, "Simulation Models: Critical Tools in NDE Engineering." Thompson discussed the history of simulation models in aerospace engineering, focusing on the ways in which these models have evolved from depicting idealised problem areas to incorporating data drawn from real discontinuity and component geometries and the ways in which these models are potentially useful for predictive maintenance and probability studies. Thompson's presentation was well received and marked the beginning of a particularly strong professional programme.

### Plenary address

ASNT Executive Director Wayne Holliday presented the Plenary Address. He spoke on the history of ASTM and the ways in which stakeholders can become involved in the consensus building process. A short course on "Advanced Magnetic Particle Inspection Applications and Techniques," taught by Pat Jenkins and George Hopman, began the conference. And, four more short courses took place throughout the week: "Eddy Current," taught by Hussein Sadek; "Thermographic NDT," taught by Steven Shepard; "Remote Visual Inspection," taught by Michael Allgaier; and "Advanced Ultrasonics," taught by Tim Armitt.

An industry tour of Varian Medical Systems, Security and Inspection Products, was held. The well attended and informative tour focused on NDT technology relating to security matters, highlighting the building and testing of industrial linear accelerators and their use in cargo container screening.

Attendance at the Quality Testing Show was consistently high



Exhibitors and attendees at the Quality Testing Show opening



The audience listens to the ASNT Fall Conference Keynote Address, "Simulation Models: Critical Tools in NDE Engineering", given by Dr Bruce Thompson. Attendance at the address was over 350



ASNT 2004 Class of Fellows at the Annual Awards Banquet, Wednesday evening, 17 November. From left to right: Marvin Trimm, Robert W Smilie, Ron Sherwin (accepting for this father Amos Sherwin), James S Pellicer, Ronald T Nisbet, Jeffrey S Monks, Gregory A Mohr, Richard A Harrison and Mark F Carlos

throughout the week, with participants from around the world gathering to see the latest in NDT technology. The show was a popular place to discuss various products and applications with the 103 vendors present.

At the Annual Awards Banquet, ASNT members and guests gathered to recognise those members of the NDT community who have earned the Society's highest honors by contributing both to the science of NDT and to the Society itself. The Banquet was also the occasion for the ceremonial changing of the presidential collar, with the installation of 2004-2005 ASNT President Henry Stephens and the other officers taking place. Among notable awards presented were the Philip D. Johnson Honorary Member Award to Robert Feole and the Robert C McMaster Gold Medal for which George Wheeler was the recipient. A special award was given to honor Frank Iddings who served as editor of the Back to Basics column in *Materials Evaluation* for 25 years.

The conference wrapped up with a postconference seminar that was as timely and well attended as events throughout the week with Ted Peet covering the subject of "Natural and Manmade Disasters: Impact on Inspection of Large Structures."

From the Professional Programme to Quality Testing Show and the Awards Banquet, the ASNT Fall Conference 2004 was a valuable event from which it is hoped the knowledge gained, resources found and professional relationships developed will further the NDT industry and community.

## Society News - Brazil

### New co-operation agreement between Brazilian Society of Non-destructive Testing and Inspection and the British Institute of Non-Destructive Testing

An agreement to develop close links in fields of common interest was signed during the 16<sup>th</sup> WCNDT by Messrs Edson Vasques Moreira and Ed Newton, presidents of the Brazilian Society of Non-Destructive Testing and Inspection (ABENDE) and the British Institute of Non-Destructive Testing (BINDT) respectively. Initially, the agreement will focus upon developing mutually beneficial arrangements concerning:

- Harmonisation of Brazilian and European systems for qualification and certification of NDT personnel;
- European Federation for NDT Mutual recognition of NDT personnel certification;
- Systems for providing compliance with the NDT personnel certification requirements of the European Pressure Equipment Directive (97/23/EC) and supporting harmonised standards;
- Cooperation on the development of qualification and certification systems for condition monitoring and engineering inspection personnel.

Further announcements concerning the detail of developments resulting from this agreement can be expected over the coming months.

In celebration of 25 years the Brazilian Society for Non-Destructive Testing (ABENDE), held its National Congress on Nondestructive Testing (CONAEND), together with the 14<sup>th</sup> Technical Exposition of NDT Equipment, Products and Services, the 4<sup>th</sup> NDT Seminar of the Airspace sector and the 3<sup>rd</sup> NDT Seminar of the Automotive sector.

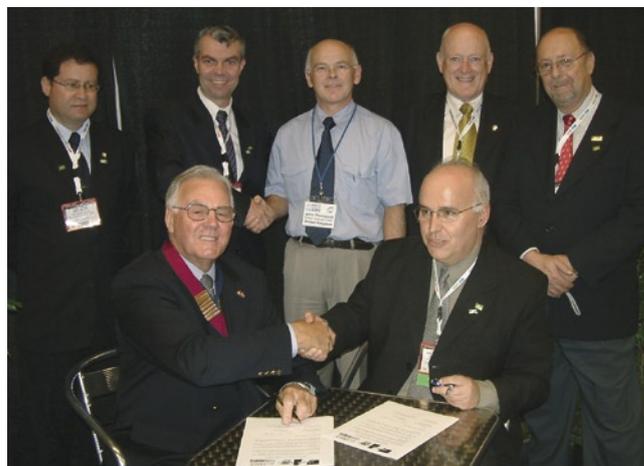


ABENDE's national congress on non-destructive testing

The different activities were held between 12-14 July 2004.

Besides the technical subjects, round table discussions were held on:

- a) Qualification and certification of NDT personnel
- b) Brazilian legislation concerning NDT



Ed Newton (seated-left), then President of BINDT, and Edson Vasques Moreira (seated-right), President of ABENDE, at the signing of the co-operation agreement at the World Conference on NDT in Montréal. The support teams, including Dr Mike Farley (standing second right) and Mr John Thompson (standing centre) look on

- c) NDT in hydroelectrical industry
- d) National policies in science and technology for industry, and its incentive for NDT technological development.
- e) NDT auditories
- f) New non-invasive technologies and techniques
- g) Use of NDT in gas pipelines
- h) Loss control in industrial processes
- i) NDT in buildings construction industry
- j) NDT services hire guide

Thematic meetings for aerospace and automotive sectors were held, where technical papers were presented, as well as discussions on new inspection, training, qualification and certification of inspection personnel, products and equipment applied to both disciplines.

### ABENDE – 25<sup>th</sup> Anniversary Celebration

In 2004 the Brazilian Society of Non-Destructive Testing (ABENDE) celebrated its 25<sup>th</sup> Anniversary and to commemorate its silver jubilee it took the opportunity at its conference (CONAEND) to express what has been achieved and what is yet to be conquered.

A panel was made up of Messrs Edson Vasques Moreira - President of ABENDE, Aílton Pereira da Silva – Manager of PETROBRÁS, José Paulo Silveira – former secretary of technology of the Ministry of Science and Technology, José Santaella Redorat Jr – President of the Advisory Council of ABENDE, GianPaollo de Donato – Manager of Capuava oil refinery, and Arnaldo Ribeiro – representative of Inmetro. Each one gave a touching testimony showing how ABENDE had progressed over the last 25 years. “It is a terrific honor to celebrate the 25<sup>th</sup> anniversary of the Association, ABENDE conquered the leadership role in the sector” said José Santaella Jr.

Aílton Pereira da Silva took advantage of the occasion to announce that Petrobrás had begun with investments of U\$ 50 million up to 2010; U\$ 46 million in Brazil alone with the setting up of several oil platforms. Aílton Pereira da Silva concluded his speech with a simple but powerful sentence: “We hope that ABENDE will contribute for another 25 years in this country”.



Left-to-right: Edson Vasques Moreira, President of ABENDE; Héctor Espejo, Argentinian Society for NDE; João Conte, ABENDE's executive director

Using the lead of growth expectation, Arnaldo Ribeiro reinforced: “From now on ABENDE will be even more active and will have much more work to take on”. Edson Moreira Vasques, President of ABENDE, summarized the proud feeling regarding the achievements: “I feel myself very young in an Association that has a great History”. Edson Vasques related what had been accomplished: “ONS, release of our magazine, implementation of the Project of ABENDE's Technological Center, recognition of training and certification examination

bodies”, and wrapped up: “We have been working under the guidance of a very strict strategic planning, and continually discussing with several associates; we need the participation of every one in this project”.

However, it was the statement of José Paulo Silveira, an associate that helped with ABENDE's establishment, which was the most enthusiastic at the opening ceremony. First, he was technical: "Non-Destructive Testing stands for safety, reduction of losses and increase in productivity". But only for a few minutes was technology part of his speech. José Paulo Silveira preferred to be direct and sensitive to the difficulties and importance of the Association. "Our path was neither short nor easy. Today, ABENDE is a reference institution, a broadcasting pole, and it has accomplished what the founders of the Association were expecting".

The day was very emotionally stirring, even for those who had little to say. Carlos Soligo Camerini, ABENDE's first certified professional, received a memorial plaque as a souvenir, and made the audience proud when he asked everyone to stand up to dedicate the gift to all qualified professionals. "I am receiving this plaque on behalf of all individuals that went through the certification procedure", he said. ABENDE's number 1 associate could not be forgotten, and Carlos Hallay Jr was very pleased to receive the tribute. Tânia Regina Gomes da Cunha was represented by Marcelo Neris, assistant manager of ABENDE's certification bureau. She also received a plaque of ABENDE's first certified professional.

The 25<sup>th</sup> anniversary celebration was also an important opportunity to sign the agreement between ABENDE and the Aeronautics Technological Center (CTA). This partnership will give ABENDE the competence to certify professionals in the airspace sector.

ABENDE took the opportunity of its silver jubilee to publish a collection of books called "NDT Books". João Conte, ABENDE's executive director, introduced the collection which shall encompass techniques such as visual testing, liquid penetrant, magnetic particle, ultrasound, X-rays and eddy currents. These books will be used in courses conducted by Training Bodies accredited by ABENDE and shall, therefore, guide candidates seeking SNQC / END qualification and certification.

It was quite a surprise to guests, but the 25<sup>th</sup> anniversary celebration ended up with music. During twenty minutes, the *Arrasta-Lata* band succeeded in entertaining and stirring even the tough ones.... twenty-five children and teenagers from Campo Limpo, a poor stricken and violent neighborhood in the city of São Paulo, endeavored through the music, to raise awareness on the part of population about the importance of environment preservation. And for their instruments they used plastic and tin cups – all improvised from soft drinks to recycled rubbish and chemicals containers, which became drums, and the beat was as good as a samba school from Rio de Janeiro. It was much more than a show business. The theatre was overflowing life and dance. At the end, the audience was asking for more. With a smile on their faces and in tune with the music and dance, the children received a standing ovation. In the company of those who will decide the future of the country and, moreover, raising awareness about the importance of preserving the environment, was the best way to celebrate ABENDE's 25 years.



The *Arrasta-Lata* band

BUENOS AIRES  
2007

PANNDT

IV Conferencia Panamericana de Ensayos No Destructivos

IV Confêrencia Pan-Americana de Ensaio Não Destrutivos

IV Pan-American Conference for Nondestructive Testing

Iniciativa  
AAENDE  
Asociación Argentina de Ensayos No Destructivos y Estructurales



## New arrangement between NRCan and BINDT

NRCan (Natural Resources Canada) and the British Institute of Non-Destructive Testing (BINDT) have agreed to an arrangement under which BINDT will issue a certificate of approval in compliance with European Pressure Equipment Directive (97/23/EC) to NDT personnel certified competent under the Canadian CGSB-48.9712-2000 by Natural Resources Canada (NRCan). To be eligible for this 'PED Certificate', the applicant must hold current valid MT/PT/RT/UT Level 2 or level 3 CGSB-48.9712-2000 certificate(s) of success in a qualification examination satisfying CGSB-48.9712-2000 criteria, BINDT will issue approval(s) by e-mail to the applicant.

## EFNDT task group for approval of certification centres

EFNDT, on behalf of ICNDT, is in the process of being nominated as an audit group for the approval of certification body, according to ISO 9712/EN 473, in those countries without any accreditation system.

## 2004 International Conference on Certification

A highly successful two-day conference was held in Manchester, UK, in November 2004. With the theme 'NDT in a shrinking world' the 4<sup>th</sup> International Conference on Certification and Standardisation in NDT addressed the key issues in this important subject area.

The main points arising out of the conference were:

- harmony in the acceptance all over the world of the ISO 9712 certification scheme
- there is a common will to merge EN 473 in ISO 9712
- there is a desire to improve the code of practice for the recognition of non-EU NDT certification valid for PED work
- there is a need to participate in CEN working group as EFNDT representatives

### ICNDT Recommended Guidelines for Qualification and Certification of NDT Personnel according to EN4179 and NAS410

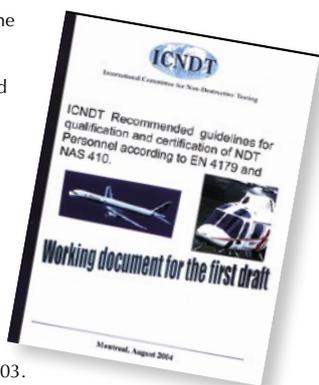
The new organisation in Europe of the authorities governing the Safety of Aerospace (EASA) and the United States Authorities (FAA) have reached a common agreement to harmonise the requirements of EN4179 with NAS410 relative to NDT Personnel Certification.

In an admirable example of harmonisation between Europe and the USA, the National Aerospace Standard (NAS) and the European Associations for Aerospace Industry have declared that the new edition of NAS410, Edition 3, is equivalent to prEN 4179 Edition 3, February 2003.

Based on this scenario ICNDT is proposing to set up a Recommended Guidelines for the Qualification and Certification/Approval of NDT Personnel According to EN4179 – NAS410.

- This Recommended Guidelines will include, amongst other things:
- Minimum Requirements of technical knowledge for NDT Personnel;
  - Employer responsibility;
  - National Aerospace NDT Board (NANDTB);
  - International Standard Reference.

The Guide will be a useful tool for NDT societies wishing to set up a National Aerospace NDT Board.



- that there is a requirement to expedite the selling of EFNDT question bank to worldwide Certification Bodies for I and II level examination.

## Certification in the world

Third-party certification according to ISO 9712 is increasing rapidly throughout the world. The number of certificates issued by accredited centres acting in different countries is approaching 300,000.

The ICNDT Journal continues with its overview of certification figures around the world, compiled from data provided by NDT societies. The whole NDT community is requested to provide data in order to improve and update the table below.

The table summarises the results obtained from replies up to January 2005. Please note:

1. Certification numbers quoted are for third-party certification ONLY (ie Certification to ISO 9712, EN 473 or ACCP).
2. The figures quoted are for **certificates issued**.
3. Certification numbers quoted against a particular country are actually numbers for the Certification Scheme run in that country. The figures may, therefore, include a significant proportion of certificate holders who are based outside the country in question.
4. A further table will be provided in a future ICNDT Journal to show the overall Certification picture in each country.

Country	ISO 9712/EN 473			Other schemes			
	Level 1	Level 2	Level 3	Level 1	Level 2	Level 3	Remarks
Japan	12199	41141	5987				
Switzerland	510	873	112		1	5	EN4179
Uruguay				8	54		SNT-TC-1A
Austria	3973	2840	996				
Ecuador			2			4	SNT-TC-1A
Czech Rep	186	1484	129	1052	1391	48	StD-301/E/04APC
Italy	1894	11420	948				
Germany	4423	7711	1964	520	1618	464	PED
Spain	746	3565	569				
Canada	1939	8612	515				
Totals	25870	77646	11222	1580	3064	521	

### ICNDT Recommended Guidelines for Qualification and Certification of NDT Personnel according to ISO9712

ISO/FDIS 9712:2004 after a two-month voting period was approved in January 2005 by the members of ISO/TC-135/SC7, Personnel Qualifications. The revised standard ISO 9712:2005 is expected to be published and available for sale by May 2005.

The ICNDT PGP Committee will be meeting in Albuquerque, New Mexico in March 2005 to review the ICNDT Recommended Guidelines and address the changes required to ensure that the guidelines meet the requirement of the revised 9712 document.

#### Contents of ICNDT Guidelines

- Background to ICNDT Guidelines
- Accreditation of Certification Bodies
- Employer responsibilities when using Third Party Certification
- Advantages of Qualification and Certification to ISO9712
- References to current major internationally used Certification Standards
- Requirements of technical knowledge of NDT personnel

#### Appendices

- **ASME recognition of ISO 9712/EN473**
- Training syllabus international relevance
- Listing of Certification Bodies offering ISO9712 Certification
- Mutual recognition of certification
- **Vienna Agreement between ISO and CEN**
- Current major internationally-used Certification Standards
- Process of development and revision of ISO9712
- The role of ICNDT and Regional Groups in the Harmonisation Process for Training and Certification
- ICNDT Membership Directory

#### Recognised by ASME

If a manufacturer prepares his written practice for ASME Code related examination in such a way to establish ISO 9712/EN 473 as his method of certification then there would be no need for double-certification.

*Extract from ASME Document ASME Comments on the EC 2002 Report on United States Barriers to trade and investment (16 January 2003).*

## CALENDAR OF NDT EVENTS

Month	Date	Venue	Event	Contact
March	9-10	Luik, Belgium	BANT-KINT Symposium	info@bant.be
	14-18	Albuquerque, New Mexico, USA	ASNT's 14th Annual Research Symposium	conferences@asnt.org www.asnt.org
	22	Moscow, Russia	Workshop "Tomography"	spektr@co.ru
April	12-14	London, UK	Materials Testing 2005	mt2005@bindt.org www.materialstesting.org
May	15-19	Lecce, Italy	art' 05-8th Int. Conf. on NDT and Microanalysis for Diagnostics and Conservation of the Cultural and Environmental Heritage	ci.ppi@tin.it www.aipnd.it
	17-20	Moscow, Russia	4th International Exhibition and Conference "NDT equipment and devices, technical diagnostics"	ndt@primexpo.ru
	24-26	Beaune, France	COFREND- National Conference and Exhibition	cofrend@cofrend.asso.fr www.cofrend.fr
	28-31	Stavanger, Norway	National NDT Conference	pda@forcetechnology.no www.ndt.no
September	1-3	Portoroz, Slovenia	8th Int. Conf. On Application of contemporary NDT in Engineering	janez.grum@fs.uni.lj.si
	5-11	Ekaterinburg, Russia	17th All-Russian Conference and exhibition "NDT and Diagnostics"	svs@imach.uran.ru
	13-15	Harrogate, UK	NDT 2005-The 44th Annual Conference of the British Institute of Non-Destructive Testing	conf@bindt.org www.bindt.org
	14-16	St. Petersburg, Russia	Defectoscopy-2005	sci&ind@restec.ru
	20-22	Kuala Lumpur, Malaysia	NDT & Corrosion Management Asia Conference	nassir@mint.gov.my
October	10-12	Prague, Czech Rep.	NDT in progress	mazal@uk.fme.vutbr.cz http://cndt.cz
	13-15	Milan, Italy	11th National Conference of Italian Society for NDT	aipnd@numerica.it www.aipnd.it
	17-21	Columbus, Ohio, USA	ASNT Fall Conference and Quality Testing Show	conferences@asnt.org www.asnt.org
	30-2 Nov	Fremantle, Western Australia	MATE 05-Materials & Testing	aindt@immanet.asn.au www.mateng.asn.au/MaTe05
November	2-4	Neuquen, Patagonia-Argentina	CORENDE 2005 -Regional Congress on Non-Destructive & Structural Testing	info@aaende.org.ar www.cnea.gov.ar/cac/
	8-10	Znojmo, Czech Rep.	DEFEKTOSKOPIE 2005- 35th International Conference and NDT Exposition	mazal@uk.fme.vutbr.cz http://cndt.cz
	18-19	Athens, Greece	5th National Conference on NDT of the Hellenic Society of NDT	hsnt@hsnt.gr www.hsnt.de
September 2006	25-29	Berlin, Germany	9th European Conference on NDT (ECNDT)	mail@ecndt2006.info www.ECNDT-2006.INFO
2008		Shanghai, China	17th World Conference on NDT	17wcndt@keluoli.com
2012		Durban, South Africa	18th World Conference on NDT	amanda.vdwesthuizen@andtc.com