



The World Organisation for NDT

Volume 7 Issue No 3

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CHAIRMAN'S MESSAGE

The key element for true harmonisation

Now that a year has passed since being elected as your Chairman and CINDE as the Secretariat, I must take some time to reflect on what has changed in our organisation over this period of time. We have had many good things transpire over this period which have been accomplished through dialogue, cooperation, and working closely with our Executive and Policy and General Purpose Committee.



The Executive has met on two occasions and the Policy and General Purpose Committee once over the last year, however, to say that is the only communication would be an understatement. The members have worked diligently to meet the mandate set at the 16th WCNDT in Montreal, to have the ICNDT become a legal entity at the next full assembly meeting of ICNDT during the 9th EFNDT Conference in Berlin. The Terms of Reference and the Operating Procedures have been re-drafted to meet the demands of the legalisation and the Membership Committee has been working to update and change membership format for legalisation.

As you can see, the format of the ICNDT Journal has changed considerably and the work efforts by the Journal Committee should not go unnoticed as we continue to elevate the professionalism of the International Committee for Non-Destructive Testing. Very shortly you will see the changes to our new website and ease of obtaining non-destructive testing information and documentation of our organisation.

The next item of interest to all of us is the approval of the revised ISO Standard, ISO 9712:2005. The revised standard has many changes, some radical and some minor. However, the changes must be addressed and implemented if we are to realise world harmonisation in non-destructive testing certification. One of the major changes I see is not necessarily with regards to technical but to implementation. The implementation of the standard has had a drastic facelift with respect to the governing body. The Certification Body had more control in the overall implementation of ISO 9712:2005.

The recently approved documents *ISO 17024 - General Requirements for Bodies Operating Certification of Persons*, *ISO/TR 25108 - Guidelines for NDT Training Organizations*, *ISO 20807:2004 - NDT Qualifications for Limited Certification* and *ISO/TR 25107 - Guidelines for NDT Training Syllabuses*, should make the harmonisation of non-destructive testing much easier. The ISO TC 135 Committee for Nondestructive Testing with its subcommittees and working groups will further enhance the task of harmonisation.

However, there is one key element missing or overlooked to accomplish a truly harmonised standard in the field of non-destructive testing. The 'LEVEL of DIFFICULTY' is the missing element to accomplish uniformity. The difficulty must apply to the theoretical and practical examination. ISO TC 135, SC 7 has a working group, WG 8, that addresses test specimens but what about the difficulty in the questions?

As the ICNDT Chairman, I have charged myself to investigate this missing element and request that the ISO Committee for Nondestructive Testing establish a working group to develop a question bank with references and level of difficulty applied for all certification bodies to have access. True harmonisation will only take place when we can state that regardless of where the examination took place, the level of difficulty was consistent.

The task of accrediting certifying bodies should be a primary function of the International Committee for Non-Destructive Testing to ensure true harmonisation.

Doug Marshall

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Message from the Chinese Society for Non-Destructive Testing

The 17th World Conference on Non-Destructive Testing will be held 26-30 August 2008 in Shanghai, China, just following the Olympic Games from 8-24 August in Beijing.

The venue of the big event is selected at the centre of the city, Shanghai Exhibition Center, which is a group of beautiful Russian-style buildings. All the activities of the conference and exhibition will be carried out at the centre. The opening and closing ceremonies will be held at the centre's Friendship Hall, which can accommodate about 1000 people. Technical session rooms are at the centre's Eastern Hall No 2, which has more than 20 rooms available as well as a poster wall.

The Exhibition will be in the 'Central Hall'. This is the main hall of the Shanghai Exhibition Center, a grand, palatial piece of architecture having an inside area of about 8000 square metres. It is convenient for the delegates to attend the conference while visiting the exhibition. As the Shanghai Exhibition Center is located at the centre of the city, several hotels, restaurants, shops and department stores are in the vicinity. Communications are also excellent.

From the 16th WCNDT, we have learned a very important experience concerning everything the organiser did to provide convenience to the delegates. We welcome sincerely all NDT personnel from all over the world to our conference. You will find ancient China has young features and a big market is waiting for you. The aim of our conference is: 'Let the world understand China's non-destructive testing; let China's non-destructive testing move toward the world.'

Visit our website: www.17wcndt.com; www.wcndt2008.com



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

Professor Dr Mikio Takagi



Professor Dr Mikio Takagi died on 2 February 2006. He was a pioneer in digital signal and image processing and explored many new frontiers of NDT. He was the President of the Japanese Society for Non-destructive Inspection in 1990-1992 and the voting delegate to ICNDT since 1996. He was the chairman of ISO TC-135 (NDT) since 1999. All of us will remember for a long time his excellent leadership, sustaining enthusiasm and warm friendship in harmonisation of international NDT standards.

Professor M Onoe

International Forum on Certification of NDT personnel held in Italy

An International Forum on Certification was held in conjunction with the Italian Society for NDT (AIPnD) Annual Conference in Milan in last November. Present at the event were representatives of EFNDT (Dr Mike Farley), ISO-TC137 (Dr Rick Murphy), ICNDT (Doug Marshall), ASME (Mr Sullivan), DGZfP (Dr Rainer Link), OSNDT (Mr G Aufricht) and AIPnD (Messrs Nardoni and Gatti).

Full agreement was expressed by all parties that ISO 9712 should be adopted as the world reference for the qualification and certification of NDT personnel.

Mr Sullivan of ASME confirmed the acceptance for Code work of certification according to ISO 9712 for construction in ASME Section VIII Div 1, Section VIII Div 2 and Section V.

The American Society for Nondestructive Testing (ASNT) has aligned its Central Certification Program (ACCP) with ISO 9712.

A useful question and answer session was included.

See the next issue of the ICNDT Journal for a full certification status report from around the world.



Mr Sullivan, ASME, presenting the ASME acceptance of ISO 9712 in ASME code Sec IV, Sec VIII Div 1 and Div 2



International Forum on Certification. Mr Farley, EFNDT President; Mr Murphy, ISO representative; Mr Marshall, ICNDT Chairman

Talbot Goldfinch

The Australian Institute for Non-Destructive Testing (AINDT) is sad to announce the death of one of its original founding members, Talbot Goldfinch. Talbot, or Tol as he was affectionately known, was one



of the few remaining radiographers that pioneered the use of radiography on naval ships in the Second World War.

Following this, he was instrumental in the setting of appropriate techniques and radiographic acceptance standards for the construction of frigates and destroyers that were built in the post-war period stretching to 1966. In doing so, it was said that he left a little bit of himself in every ship that he involved himself in. When this major era in shipbuilding finally came to an end he then went on to pursue an eminent career in commercial NDT and consulting.

A fervent believer of professionalism in NDT, Tol was a man who was extremely active in the affairs of AINDT. He played an instrumental role in setting up Australia's qualification and certification scheme in the years from 1971 – 1985 as well as holding several key positions on the Federal Executive, including President of AINDT in 1974/75.

He was best remembered for his work in international circles and was a tireless supporter and member of the Asia-Pacific Committee for Non-Destructive Testing (APCNDT) since its inception in 1976. He

then became its President at the time of the 4th Pan-Pacific Conference in Sydney in 1983 and proved a charming host to many of those who attended. The story goes that the Japanese delegation came round to his room at his hotel to rehearse their rendition of *Waltzing Matilda*.

"... and very well they did too", remarked Tol. "They then went on to bring the house down at the conference dinner with their wives resplendent in full national costume."

From his involvement in APCNDT, Tol was to make many firm friends including Dr Ishii who, along with Gerald Tenney from ASNT, were the founders of APCNDT in 1976. In this context, it was one of the greatest highlights in Tol's career when he was awarded the prestigious Ishii Award at the Japanese Society for Non-Destructive Inspection's (JSNDI) General Assembly in 1996.

Unassuming, with a twinkle in his eye, he was not a man to seek awards of any description, though they were fully deserved when they came his way. In addition to the Ishii Award, Tol was also presented with Honorary Life Membership of the Institute in 1982 for outstanding services and was the recipient of both the J H Cole Award and the Florence Taylor Medal from the AINDT and the Australian Institute for Metals, respectively.

By any measure, he was a man of achievement for the Institute and in the furtherance of NDT throughout South East Asia and the Pacific region. Talbot E Goldfinch was a man of his time and he will be missed by those who knew him and a source of inspiration for those who follow in his footsteps.

Important Australian award goes to Tony Sonneveld

Long-serving member of ICNDT (International Committee for Non-Destructive Testing), Tony Sonneveld, was recently presented with the prestigious 'J H Cole' Award at the Materials and Testing Conference (MATE) dinner held in Fremantle, Western Australia by Mr Vince Wilcox, the Federal



Tony Sonneveld (left) and David Barnett, joint winners of the Australian Institute for NDT's J H Cole Award

President of the Australian Institute for Non-Destructive Testing. The award was created to perpetuate the memory of James (Jim) Henry Cole who died in 1985 and to recognise the great contribution that Jim made through his selfless efforts as Honorary Secretary over twenty years of service to the Institute. The award is normally presented annually to a recipient who has likewise made a significant contribution to NDT in Australia.

It is fitting that Tony, a well-known member in ICNDT circles and the Chairman of the Membership Committee, received the award for he has been a tireless campaigner of the preservation of NDT history. In this respect he felt it necessary to record the reminiscences of many of its original pioneers before their experiences and knowledge of events had been lost forever. His efforts, therefore, in producing the 'History of Non-Destructive Testing in Australia', was immensely satisfying to Tony and crowned a lifetime of achievement of service to the Australian Institute and also as the Australian Voting Delegate to ICNDT. This history was finally published in 2004 and was distributed to all ICNDT member countries.

It is important to note that the award was received jointly with David Barnett, who also collaborated on the project. David was the principal researcher and 'wordsmith' who prepared the final written text in a form that was both interesting and factual to readers.

It was a matter of great pride that both men were able to achieve, perhaps, the first recorded history of an ICNDT member country, coupled with the acknowledgement of their efforts through the presentation of the 'J H Cole Award' by the AINDT.

ICNDT Journal No 4

The next issue of the ICNDT Journal will be published in June 2006 and will include:

- 9th ECNDT preview (Berlin, September 2006)
- Directory of Member Societies (the 'Journal of the Flags')
- Certification status report (records of certificates issued)

Copy deadline: 15 April 2006
Contact the Secretariat (see Page 2)

Future ICNDT meetings

ICNDT & PGP	Berlin, September 2006
PGP Committee	Auckland, November 2006
PGP Committee	Argentina, October 2007
ICNDT & PGP Committee	Beijing, August 2008

ISO 9712-2005

The new ISO 9712-2005 is now available in either electronic or hard copy format

Visit the ISO website at www.iso.org

Non-Destructive Testing in the 3rd International Forum 'Fuel-energy Industry of Ukraine: the Present and the Future'

The 3rd International Forum, 'Fuel-energy Industry of Ukraine: the Present and the Future', was held in the last week of September, 2005 in the largest exhibition site in the Ukraine – the International Exhibition Center. The Forum was organised by the Ministry of Fuel and Power Generation Industry of Ukraine and the company 'IEC', with the support of the Cabinet of Ministers of Ukraine and Ukraine's Supreme Rada Committee on the problems of fuel-energy industry, nuclear policy and nuclear safety.

The objective of the Forum was to unite the efforts of power, business, science and production in implementation of the state policy of reforming the fuel-energy industry of Ukraine; providing a reliable and effective functioning of the power network of the country, energy independence and safety.

Companies and plants of the fuel-energy industry, leading local and foreign manufacturers of equipment, products and services for the power, oil & gas and coal industry, research institutes and public organisations participated in the Forum.

The Forum programme included seminars devoted to reforming the industry, implementation of the priority objectives on development, construction, upgrading, monitoring, repair and reconstruction of the main plants of the fuel-energy industry of Ukraine, round table discussions, business meetings, subject-oriented presentations of the most advanced technologies, services and equipment for the fuel-energy industry.

Scientific-practical seminar

A seminar entitled: 'Application of directed ultrasonic waves for testing extended limited-access plants' was held as part of the Forum.

The seminar was organised by the Ukrainian Society for NDT, the E O Paton Electric Welding Institute, and 'Plant Integrity Ltd', a division of TWI, Great Britain. It was devoted to the method of long-range ultrasonic testing of extended plants by low-frequency directed waves propagating for more than 50 m distance from the point of placing the array with ultrasonic transducers. This method, which is newly emerging in the Ukraine and of topical interest, is highly beneficial in testing such plants as, for instance, insulated pipelines, underground or above-ground, underwater or above-water insulated pipelines, supports of wind-driven electric plants, and other extended plants.

Plant Integrity Ltd participated in the preparation and conducting of the seminar. This company has considerable experience in development and operation of equipment for this kind of testing.



Mr Davide Kleiner, specialist of this company, came to Kiev with the purpose of making a presentation on 'Application of TELETEST system of Plant Integrity Ltd (Great Britain) for long-range ultrasonic testing'.

A discussion was held on the possibility of applying the TELETEST system in the fuel-energy industry of Ukraine.

The Ukrainian Society for NDT joined an International Consortium which will perform research in this field. This was the subject of the presentation made by Prof. V. Troitskij on 'Prospects for application in Ukraine of the long-range ultrasonic testing of pipelines without their uncovering and scraping. Setting up an International Consortium'.

Results of theoretical and experimental studies already conducted at the E O Paton Electric Welding Institute on development of this testing method were presented in the paper on 'Features of controlled waves, propagating in waveguides, and their practical application in ultrasonic testing of extended plants'.

Altogether, 2500 specialists from more than 200 plants and 187 companies from 11 countries participated in the specialised exhibition. The Forum was presented in more than 50 specialised publications and internet-sites, as well as several TV channels.

The next (4th) Forum will be held from 26 to 29 September 2006.

**N Silova, International Exhibition Center,
A Shekero, E O Paton EWI**



Davide Kleiner of TWI making his presentation



The seminar on long-range ultrasonics was well attended

AFRICA

African Regional Conference held in Cairo

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.

The African Federation of Nondestructive Testing (AFNDT) organises a regional conference every four years that deals with current research activities in the



field of non-destructive application and material evaluation.

The Fourth African Regional Conference – which took place 11-13 February 2006 in Cairo – involved international participation of knowledge in the interdisciplinary fields of non-destructive testing and their applications. The national and international communities participated in the conference to enrich and promote knowledge and techniques for non-destructive testing, and to envisage future prospects and trends.

The scientific activities of the conference included keynote presentations by international and regional recognised scientists to highlight recent progress in non-destructive testing, addressing their regulations and the promotion of applications of non-destructive testing in industry. The conference sessions also included panel discussions and technical presentations.

Main sponsors of the conference were the Egyptian Atomic Energy Authority (EAEA) and the International Atomic Energy Agency – Vienna. Chairman of the Conference is Professor Aly Islam, Chairman of EAEA and Vice Chairman is Professor Karim EL Adham.

Conference topics included:

- Non-destructive testing (NDT) methods
- Non-destructive examination (NDE)
- NDT personnel certification

- NDT regulations
- Quality assurance in NDT activities
- Material evaluation
- In-service inspection
- Welding, casting and wrought material inspection
- Vibration analysis
- Advanced (NDT) technique
- Industrial safety.



An exhibition was held concurrently with the conference, which was held at the Helnan Shepard Hotel. A programme of pre- and post-conference tours was available, enabling participants and companions to visit the many local attractions and places of interest, including Luxor, Aswan, Hurghada and Saini.

For further information, contact: Prof Mahmoud Ahmed Shafy Haraza, Atomic Energy Authority, 3 Ahmad AL-Zomor St, Al-Zuhoor District, Nasr City, Cairo, Egypt. Fax: (00202) 2740238; E-mail: ShafyMahmoud@hotmail.com/Shafy@maktoob.com



18th World Conference on Non-Destructive Testing

2012

Durban, South Africa

E-mail: amanda.vdwesthuizen@andtc.com

ASIA-PACIFIC

Well on the way to a successful conference

With less than 12 months to the 12th APCNDT Conference, the work continues unabated and to this end some of you will have seen us out continuing the good work, from Sri Lanka to Perth (Australia) and even to Kolkata (India), for the ISNT's national conference in December.

The call for abstracts has been out to your societies for some time now and still the response is a little lower than expected. This is your chance to get your message across to the Asia-Pacific Region and the ICNDT group as a whole.

If you have been unable to gain a copy personally, they are also available on the website: www.apcndt2006.com, where you will also find any and all information, contact details and sponsorship packages.



Les addressing the Mate05 conference in Perth, Australia

I am extremely pleased to add that, at the time of writing, we have secured another large sponsor with the signing of 'Olympus' at the AINDT's Mate05 conference in Perth in October.

Add to this the generous donation by 'Genesis Energy NZ' and two previous sponsors: SGS Group and ATC Ltd, we are well on the way to making a very successful conference. Contact details are available for these companies through their 'Logos' on our website.

With the continued support of the IAEA we will be adding to the success of this conference by way of the hosting of workshops in the days leading up to the conference, for the development of ISO accreditation for developing countries from around the world.



Lyn Dick (left) and Christine Thomson during a quiet moment at the Joint AINDT/NZNDTA APCNDT Stand at Mate05



To this end, I have attended the IAEA meeting in Sri Lanka on this in August, where the recognition of RCA member states' Personnel Certification Schemes was discussed and timelines set for these countries to move toward accreditation, with a view to gaining the extra help needed at the APCNDT Workshops.

Ultimately, the APCNDT will be asked formally at the 2006 meeting, to take up the role of administering the scheme through a working group to assist this in the future.

An interim group will perform these duties until such time as the APCNDT is able to take up this role.

Whilst attending this meeting I canvassed the APCNDT representatives by email for their response to such a plan and gained general acceptance from all who responded.

We were, however, unable to accept this role until it is formally ratified by the APC Meeting itself.

So our theme of 'Working Closer Together' now means just that and I for one look forward to the challenge that awaits us.

We have proven that sister societies can work together, with the AINDT and the NZNDTA now operating the same certification scheme and New Zealand's first ISO9712 exams being conducted in October and December.

As 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 can only be achieved with your support and with that of groups such as IAEA supporting our initiatives.

We wish you all well for the coming months until we all meet again and encourage you to get involved in 'Your Conference' and the IAEA/ICNDT sessions in the week of the 12th APCNDT Conference, 5-10 November 2006, in Auckland New Zealand.

Les Dick
President APCNDT



Stefan Kierspel of GE approaching the APCNDT stand 'again', and caught by the ICNDT flag!

Meetings of the Board of Directors and the General Assembly were held in the elegant surroundings of the beautiful historic city of Vienna on 11 and 12 November 2005.

The Board reported its activities during 2005, including:

- Update of the EFNDT website incorporating new information services.
- Completion of a Question Bank which is available for purchase by Certification Bodies which are members of the EFNDT Mutual Recognition Agreement.
- Transfer of responsibility for the MRA to the Certification Executive Committee.
- Expansion of the scope of WG1 and retitling as 'EFNDT Forum on Certification, Qualification and Accreditation'.
- Completion of the preparations for EFNDT to approve Certification Bodies.
- Documents originally prepared under the auspices of EFNDT on the approval of NDT personnel for work under the European Pressure Equipment Directive have been approved and are published on the EFNDT website. Almost all the RTPOs are using these documents.
- WG5, previously renamed 'Detection of Anti-Personnel Land Mines', has broadened its scope and is now named 'Public Security and Safety NDT Technology'.
- The German NDT Society, DGzfp, is well advanced with plans for the 2006 ECNDT in Berlin 25-29 September 2006. The Exhibition is fully booked and more than 700 papers/abstracts will be presented. Details are accessible at www.ecndt2006.info
- Discussions have begun on strengthening the EFNDT administration, its presence in Brussels and liaison with the European Commission and other European institutions.
- EFNDT maintains contact with other European bodies (including EUROLAB, EPERC) and International bodies (including IAF Task Group on ISO 17024) through individuals nominated by the BoD.
- The President represented EFNDT in Sweden, UK, Russia, Belgium, Italy and the USA and the Federation was represented by other Board Members in Czech Republic, Slovenia, Croatia, Germany, Ukraine, etc. EFNDT was represented at the ICNDT PGP meeting in Albuquerque by Mr Romero.
- EFNDT members are participating in several collaborative projects, supported by the European Commission, including a 'Leonardo Project' on NDT Training initiated by the Spanish NDT Society, and a 'Collective Project' on Long Range Ultrasonics, led by TWI with EFNDT co-ordinating the activities of member societies.



Mike Farley

The Russian Society was selected to host the 10th ECNDT in 2010 in Moscow.

The General Assembly unanimously accepted a proposal for the Board to make three EFNDT Awards. These will be announced at the Berlin Conference.

The next Board Meeting will be in Glasgow on 27 January 2006 and the following one in Budapest on 22 May 2006. The next General Assembly will be in Berlin on Friday 29 September 2006.

EF European Federation for
Non-Destructive Testing
NDT



Those present at the General Assembly in the main hall of the Vienna Chamber of Commerce. In all, 21 member societies were represented

Officers, 2005-08

President	Mike Farley	(UK)
Vice President	Gerhard Aufricht	(Austria)
Treasurer	Gerard Hennaut	(Belgium)
Members		
Emilio Romero	(Spain)	Claes Eriksson (Sweden)
Rainer Link	(Germany)	Michel Poudrai (France)
Vjera Krstelj	(Croatia)	Erik Zeelenberg (Holland)
Irena Pushkina	(Russia)	
President of ECNDT	Dr Volker (until 2006)	(Germany)
	Vladimir Klyuev (from 2006)	(Russia)
Secretariat	British Institute of NDT	
Chair of Advisory Board	Irena Pushkina	(Russia)
Auditor	Rune Kristiansen	(Norway)



Members of the Board at the General Assembly meeting in Vienna

**Multilateral Recognition Agreement
Schedule 2
Registered Certification Bodies**

Several NDT Personnel Certification Schemes/Bodies have been accepted by the EFNDT Qualification and Certification Working Group as complying with the criteria set out in the EFNDT Agreement on Multilateral Recognition of NDT Personnel Certification Schemes and thus are recognised by the signatories to the Agreement.

Schedule 2, dated December 2005 is available for downloading at www.efndt.org

Further information is obtainable from Certification Executive Committee, c/o COFREND, 1 rue Gaston Boissier, 75724 Paris Cedex 15, France.
Tel: +33 (0)1 44 19 76 18
E-mail: cofrend@confrend.asso.fr

ECNDT Programme Committee convened

In October 2006, the chairmen of the ECNDT-Programme Committee, Professor Anton Erhard and Dr Gerd Dobmann, met with Dr Rainer Link, Stefan Cullmann and Steffi Schäske for a closed session in Potsdam, in order to sift through the 712 contributions submitted at that point in time. Every single summary was read, discussed and evaluated during the four days. In the end, the originally planned six parallel meetings turned into eight.

On the last day, the preliminary programme had been compiled, the main papers selected and the session chairmen proposed.

Altogether, 488 papers are going to be held and 202 posters presented at 111 sessions. 39 poster authors will have the

opportunity of giving a brief presentation of their work.

The areas of 'Aerospace', 'Materials Characterisation' and 'Modelling & Signal Processing' are most represented with 48, 37 and 36 papers respectively.

All authors will be informed about the acceptance of their papers by 20 December. Authors whose paper has been accepted will receive a request to register bindingly by 15 February 2006 and pay their participation fee. Authors whose registration and



Sifting through more than 700 registered contributions submitted for four days: Dr Dobmann (left) and Prof Erhard

participation fee have not been received by this date, will not be taken over into the programme with their paper.

This is an overview of the number of papers on the respective subjects:

- Aerospace (48)
- Materials Characterisation (37)
- Modelling & Signal Processing (36)
- Ultrasonic (25)
- Power Generation - Nuclear (23)
- Transportation – Rail (16)
- Digital Radiology (15)
- Art and Architecture – Civil Engineering (19)
- Transportation - Automotive (12)
- Computer Tomography (15)
- Magnetic/Electromagnetic (14)
- Ultrasonic Phased Array (12)
- Pipeline InService Inspection (15)
- Polymer & Composites (15)
- Public Security (15)
- Qualification, Validation, Certification (11)
- TeraHertz (12)
- Non-Linear (12)
- Transducer & Sensors (15)
- Acoustic Emission (8)
- Certification, Qualification, Training, Personnel (10)
- Chemical & Petrochemical (8)
- Infrared & Optical (10)
- Lifetime Management (7)
- Power Generation - Fossil (10)
- Process Monitoring (10)
- Maritime Offshore (9)
- Standardisation (8)
- Metals (10)
- Dimensional Measurement (5)
- Food Technology (4)
- Leak Detection (4)
- Penetrant Testing (4)
- Radiation Protection (5)
- Radiography (5)
- Vibration Analysis (4).

On behalf of DGZfP, Dr Rainer Link thanked Dr Dobmann and Prof Erhard for their work on the Programme Committee, characterised by great experience and commitment.



9th European Conference on NDT



The Event for NDT

September 25-29, 2006
with Exhibition

organised by



GERMAN
SOCIETY FOR
NONDESTRUCTIVE
TESTING

EF European Federation for
Non-Destructive Testing
NDT

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<http://www.ecndt2006.info>

Two new DGZfP technical committees founded

The new **DGZfP Technical Committee Structural Health Monitoring (TC SHM)** was founded on 28 September 2005, attended by 29 participants in Dresden. DGZfP Chairman, Jörg Völker, stressed the necessity of such a body for structural health monitoring, in which experts from industry and research discuss needs and application techniques with one another.

The application of structural health monitoring is not new. However, it has become interesting for practical use from an economic point of view only with today's state-of-the-art technology.

Holger Speckmann, who was elected Deputy TC Chairman, explained how the founding of the technical committee came about: He was looking for new technologies and application possibilities in the area of SHM in the maintenance of aircraft and invited the respective specialists from industry and research for an exchange of ideas. This is how a loose working group formed, meeting at regular intervals. The members of this working group now belong to the newly founded DGZfP TC SHM.

Prof Norbert Meyendorf, who had been elected the Chairman of the TC before, also explained that it had only become possible now to use SHM economically, as the powerful small sensors had meanwhile become available at a low cost.

A proposal submitted by Prof Meyendorf for a TC working programme comprises:

- Definition of terms
- Stocktaking
- R & D initiatives
- Setting up a training system
- Drawing up guidelines
- Assessing the reliability of SHM systems.

The new TC chairmen

Prof Norbert G H Meyendorf, born in February 1953, has been the Division Head of Fraunhofer IZFP Dresden since May 2004. Since 2000, he has held a professorship at the University of Dayton, Graduate Materials Engineering.

Prof Meyendorf is the General Chairman of the SPIE's Conference 'Non-Destructive Evaluation for Health Monitoring



Prof Meyendorf of the Fraunhofer-Institut for NDT Dresden (left) is to head the new technical committee. Holger Speckmann, Airbus Deutschland GmbH Bremen, is his Deputy

and Diagnostics', on the Board of Trustees of the Centre for Micro and Nano Materials Berlin, member of the American Society for Nondestructive Testing, member of the DGZfP and member of the Material Research Society.

Holger Speckmann is the transnational Project Manager for Structural Health Monitoring (SHM) at Airbus Germany and thus responsible for the development and provision of this technology.

He is the head of various national and European and international research projects as well as the author of numerous publications.

Holger Speckmann is co-organiser and Chairman of the 'International Workshop on SHM (IWSHM)' in Standford and the 'European Workshop on SHM (EWSHMM)'.

In April 2005, 20 participants convened for the founding meeting of the **DGZfP Technical Committee Non-Destructive Testing in Aerospace (TC Aerospace)** at the MTU Maintenance Berlin-Brandenburg in Ludwigsfelde.

Ralf Holstein, Managing Director for Training, welcomed the specialists attending and then conducted the election of the TC Chairman and his Deputy.

Berthold Busch was elected unanimously as the Chairman of the new Technical Committee and Dr Eckardt Schneider was also elected unanimously as his Deputy.

According to a survey among the participants, the following focal points were identified for the future work:

- Training and certification of the testing staff.
- Information about the National Aerospace NDT Board (NANDT).
- Lectures on the state-of-the-art technology and standardisation as well as an exchange of experience.
- Reports about NADCAP (www.pri-network.org/Nadcap).

The sessions of the technical committee should take place at aerospace enterprises also in the future, and should always be combined with a tour of the company, if at all possible.

Berthold Busch

Since 1980, Berthold Busch has been with the company Tital, Titan-Aluminium-Feinguß GmbH, a manufacturer of demanding investment casting products from titanium and aluminium alloys for the aerospace industry. Since 1988, he has been the Head of Quality Management, since 1991, also responsible at Level III PT/RT. In 1987 and 1989, he underwent training in PT/RT up to Level III at the Aerospace Inspection Training Centre, Norwich. In the following years, he obtained further qualifications and licenses from Rolls-Royce, Boeing and Honeywell, pursuant to NAS 410/EN 4179. He works in various bodies of the DIN and the BDLI and has been a member of the DPZ Programme Committee since 2004.



Berthold Busch

Dr Eckhardt Schneider

Since 1979, Dr Eckhardt Schneider has been working for the IZFP Saarbrücken in the area of new and further developments of ultrasound techniques of NDT procedures for the process-integrated material and structural health analysis. He is the Head of the Automobile Division. In 1989, he received the Josef-von-Fraunhofer Award and in 1992, the Berthold Award.



Eckhardt Schneider

PAN-AMERICA

ASNT Hosts 2005 Fall Conference and Quality Testing Show

ASNT held its 2005 Fall Conference and Quality Testing Show in its hometown of Columbus, Ohio, 17-21 October. The meeting matched an impressive professional programme with innovative trade show exhibitions and busy committee meetings, all coming together at the Hyatt Regency and Greater Columbus Convention Center. The successful event brought together over 1400 NDT professionals from around the world. In addition to two panel discussions, the professional programme saw 124 papers presented in 36 sessions devoted to seemingly every type of NDT technology and application imaginable. The Quality Testing Show was the place to see the latest in NDT products and technology, with 103 exhibitors in 145 booths demonstrating how they continue to advance the state of the art.

A short course, 'Time-of-Flight Diffraction — Practical Guide to Data Collection and Data Analysis,' taught by Tim Armitt, began the conference on Monday morning. The various ASNT councils and committees also began their meetings on Monday and continued them throughout the week.

The Society's Annual Business Meeting was held on Monday as well. ASNT National Conference General Chair and Professional Programme Chair Claudia Kropas-Hughes was recognised for her work.



Introduction of Officers at the Annual Business Meeting, held 17 October 2005 at the ASNT Fall Conference and Quality Testing Show in Columbus, Ohio. From Left to Right: Chairman of the Board Joseph Mackin, President Henry Stephens (standing), Vice President Sharon Vukelich, Secretary/Treasurer Marvin Trimm, and Executive Director Wayne Holliday

Outgoing members of the ASNT Board of Directors and Council Chairs for 2004-2005 were presented plaques for their service to the organisation. Board members included Brenda L Collins, Louis J Elliott, Jocelyn Langlois, Larry G Olsen, Marvin W Trimm; and, Council Chairs recognised were Louis J Elliott, Glenn M Light, Ricky L Morgan and Roland J Valdes. A significant business item, the amended and restated ASNT Bylaws were voted upon and accepted. The document took effect 1 January 2006.

The Quality Testing Show was the location for a poster competition held by ASNT to encourage participation by students enrolled in NDT programmes. The first place winner was Harsha Phukan, for his poster on 'Defect Detection in Friction Stir Welds.' Phukan received a plaque and a cash prize. Second and third place went to Lisa Rouzee and Kellen Heideman, respectively. They too received plaques and cash awards.

Eugene Reinhart presented the Mehl Honor Lecture and Keynote Address, 'A Personal Retrospective of NDT Experiences around the World.' Reinhart's experiences working on projects that involved the cooperation of technicians, researchers and scientists

from many different countries formed the basis for his entertaining and informative discussion, which focused on the technology transfer process and the ways in which people coming from different backgrounds manage to communicate.

The professional programme sessions — divided into three and, at times, four concurrent sessions — focused on topics including NDT of composites, data analysis methods, phased array applications, ground penetrating radar, industry-specific applications and many others.

Four more short courses took place during the week: 'Fundamentals of Welding Process as Related to NDT,' taught by Richard

Holdren; 'Applications of Phased Arrays,' taught by Michael Moles; 'Eddy Current,' taught by Hussein Sadek; and 'Video Probe Measurement Techniques,' taught by Michael Allgaier.

The Annual Awards Banquet took place on Wednesday evening, where ASNT members and guests gathered to recognise those members of the NDT community who have earned the Society's highest honours 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 2005-2006 ASNT President Sharon Vukelich and the other officers taking place. Incoming President Vukelich addressed the crowd over dinner and ASNT Executive Director Wayne Holliday presented outgoing Chair Joe Mackin with the Society's thanks for all of his work over the years.

The successful conference wrapped up on Friday with attendees participating in the post-conference seminar entitled 'Avoiding Explosions: NBIC Requirements for Materials, Welding, NDE, Inspection and Testing' which was conducted by Chuck Walters.

For more information contact: Betsy J Blazar, ASNT Sr Manager, Marketing & Membership. Tel: 800.222.2768; E-mail: bblazar@asnt.org



Joseph Mackin (right) presents the Charles N Sherlock Meritorious Service award to the 2005 recipient, David L Culberston, at the ASNT Annual Awards Banquet, held 19 October 2005 in Columbus, Ohio



The 2005 class of ASNT Fellows: (from left to right) Larry G Olsen, David Bajula, Sreenivas Alampalli, Michael T Anderson, Jerry D Fulin, Yossi Shoef, Darrell W Harris and Reza Zoughi (Lawrence Goldberg was unable to attend)

British Institute's Certification Manager attends meeting at ABENDE

On 2 July 2005, John Thompson attended a meeting of the Certification Bureau, held in São Paulo, at the Brazilian Society of Nondestructive Testing (ABENDE), where everyone present had the opportunity to exchange ideas and information about both SNQC/END and PCN/BINDT systems. John Thompson is the manager of PCN, of the British Institute of NDT, with which ABENDE has a cooperation agreement to qualify and certificate people in NDT.



John Thompson, (standing) attends a meeting at ABENDE

Certification Bureau develops new qualification models

The SNQC/END Certification Bureau of ABENDE is developing new qualification and certification models in NDT (ACFM, Grade and Tightness Test), as well as dimensional control inspector and manufacturing inspector. The two latter are part of a recent agreement signed between ABENDE and SEQUI/Petrobras. ABENDE will implement all these models at SNQC/END, with final professional certification, as required by the national and international standards for each method. Additional information and documents relating to these test methods are available at the Association's website.

ABENDE invests in certification system

Now, professionals certified in NDT by the National Staff Qualification and Certification System can easily and quickly obtain the results on qualification and/or certification. ABENDE built an electronic query system for these professionals certified by the Association. From now on, those interested in getting information on the status of their processes with the National Qualification and Certification System at ABENDE will find everything they need at the website: <http://www.abende.org.br/> and follow the processes in the electronic query system, such as qualification tests, re-certification processes and structured credit, maintenance data, among others. This is a new service system in Brazil that ABENDE is proud to offer to the certified professionals.

ABENDE welcomes the Coordination Committee of PROMINP

On 18 November 2005, the head-minister of the Executive Office, Dilma Rousseff, launched the Professional Qualification Plan of Prominp – Mobilization Program of the National Industry of Oil and Natural Gas, when closing the III Prominp National Workshop. The Executive Director of the Association, Mr João Conte, represented ABENDE in the event, on 17 November. The objectives of the workshop were to present the results of the activities, to promote a critical analysis and structure a new proposal for next year.

Prominp was created to mobilise the Brazilian industry to meet the demand for investments in the oil and gas sector in the future. The programme was divided in several projects and one of them deals specifically with training and certification of professionals: the Project IND-025. According to Petrobras, the Plan will require an investment of 220 million reais and its objective is to create a critical mass of 70 thousand professionals in high, technical and fundamental education levels to meet the demand of the oil and gas sector. Sixty-four thousand professionals in the fundamental

and technical levels and 6000 in the high level will be trained up until the end of 2007, making use of an important professional education structure of the country.

Prominp was divided in seven models: END, Ducts and Welding, Dimensional Control, Manufacturing, Painting and Insulation, Electric and Instrumentation and Civil Construction. ABENDE coordinates one of them, END. According to a survey, the professional staff for some modalities of Non-Destructive Testing (NDT) will be insufficient to meet the demand expected for next year. A major concern is with the number of level 3 professionals existing today. According to Prominp's data, it will be necessary to have at least 50 new professionals in the market.

A human resources gap analysis was carried out and Prominp mapped 150 categories of professionals working, mainly in the engineering market, including technicians, inspectors, managers and engineers. The event organisers reached a very discouraging conclusion. Until May 2007, 57,282 job positions need to be created for specialised professionals, both with technical and high education. It is believed that in this period, the industry capacity will be of 16,000 professionals.

"Today, our project's bottleneck is not training but the certification process. We have few entities to certify and that's why ABENDE is a reference for the project", says Luiz Cesar de Almeida, chairman of the Certification Board of ABENDE and coordinator of the Project IND-025 of Prominp.

Leak testing and vibration analysis courses conducted by German experts

The Vibration Analysis course – Level 2, carried out from 8 to 17 August 2005 and promoted by ABENDE, was warmly welcomed by students. The course had 11 participants and four instructors, among them Dr Ulrich Südmersen, head of the Vibration Analysis Department of the Materials Institute - IW of the University of Hanover, Germany. The Leak Testing course inaugurated the ABENDE's new laboratory that now has new classrooms. Held from 22 to 31 August 2005 in São Paulo, the course had the presence of German experts in the area of non-destructive testing: Miquel Thieme, from DGZfP – the German NDT Association, and Wilfried Schmidt, head of the Education Center Dortmund and of DGZfP – German NDT Association who were the instructors. The next Leak Testing Level 1 course will be held from 31 July to 4 August 2006 and Level 2 from 7 to 18 August 2006.

Standardisation Board

Concerned with the advancement of all areas related with non-destructive testing, ABENDE created the Standardisation Board. The first meeting was on 30 August 2005. The Board approved the internal regulation so that all subjects can be clearly exposed and all rules applied to the operation of the Standardisation Board ONS 58. The Standardisation Board is a technical, advisory and deliberative body and has the following attributions:

- Advise ABENDE's Board in defining guidelines and strategies related to standardisation
- Prepare the Standardisation Action Plan to be approved by ABENDE's Board and subsequent approval by ABNT
- Propose the creation of other Study Committees according to the market needs.

Each president will have a two-year mandate; Maria Izabel L Gebrael from Metal-Chek was elected by the Board members as the first president of the Standardisation Board. "The creation of the Standardisation Board within ABENDE's framework was excellent. Establishing Brazilian standards to non-destructive testing was an actual need", she said.

CALENDAR OF NDT EVENTS

Month	Date	Venue	Event	Contact
March 2006	13-17	Orlando USA	15th ASNT Annual Research Symposium	conferences@asnt.org www.asnt.org
April 2006	10-14	Kiev Ukraine	5th National Scientific-Technical Conference and Exhibition 'Non-Destructive Testing and Technical Diagnostics'	usndt@ukr.net www.usndt.com.ua
May 2006	16-19	Moscow Russia	5th International Exhibition and Conference for non-destructive testing equipment and devices	ndt@primexpo.ru www.ndt-russia.ru
June 2006	27-30	Padova Italy	QIRT 2006 – 8th Conference on Quantitative InfraRed Thermography	info.qirt2006@itc.cnr.it qirt2006.pd.cnr.it
July 2006	23-26	São Paulo Brazil	Congress - XXIV CONAEND Exhibition - XV EXPOEND	abende@abende.org.br www.abende.org.br
July-August 2006	30 July-4 August	Portland USA	22rd Review of Progress in Quantitative Nondestructive Evaluation – QNDE	qnde3@cnde.iastate.edu www.cnde.iastate.edu/qnde/qnde.html
August 2006	14-18	St Louis USA	The 7th Structural Materials Technology (SMT): NDE/NDT for Highways and Bridges 6th International Symposium on NDT in Civil Engineering/NDT-CE	conferences@asnt.org www.asnt.org
September 2006	12-14	Stratford-upon-Avon UK	NDT 2006: 45th Annual Conference of BINDT	conf@bindt.org www.bindt.org
	18-19	Stuttgart Germany	Conference on Damage in Composite Materials – Simulation and Nondestructive Testing	cdcm06@isd.uni-stuttgart.de www.cdc06.de
	25-29	Berlin Germany	9th European Conference on NDT (ECNDT)	mail@ecndt2006.info www.ecndt2006.info
October 2006	23-27	Houston USA	ASNT Fall Conference and Quality Testing Show	conferences@asnt.org www.asnt.org
	24-27	São Paulo Brazil	Seminars - II Forum on New NDT Technologies	abende@abende.org.br www.abende.org.br
November 2006	5-10	Auckland New Zealand	12th Asia Pacific Conference on Non-Destructive Testing 2006	www.apcndt2006.com
	29-30	Porto Alegre	II Mercosur Meeting on NDT and Inspection	abende@abende.org.br www.abende.org.br
October 2007	22-26	Buenos Aires Argentina	4th Pan-American Conference on Non-Destructive Testing (PANNDT)	info@aaende.org.ar www.aaende.org.ar
August 2008	26-30	Shanghai, China	17th World Conference on NDT	chsndt@public2.sta.net.cn snit@citiz.net www.chsndt.com
2012		Durban, South Africa	18th World Conference on NDT	amanda.vdwesthuizen@andtc.com