



*The World Organisation for NDT*

Volume 7 Issue No 2

September 2005

## Progress continues apace

On the anniversary of his election as ICNDT Chairman, Douglas J Marshall is more than satisfied with the progress that has been made by the International Committee for Non-Destructive Testing (ICNDT) in its endeavours towards fulfilling the objectives laid down at the last world conference in Montréal in 2004.

In particular he is impressed with the efforts of representatives throughout the world in taking the organisation forward and culminating in ICNDT becoming an officially recognised global body in the field of non-destructive testing.

The new ICNDT Operating Policies and Procedures – first drafted at the 2000 world conference in Rome – have been reviewed, amended and supplemented following meetings of the ICNDT Executive and Policy and General Purposes Committee (PGP) in Albuquerque, USA in the Spring of this year.

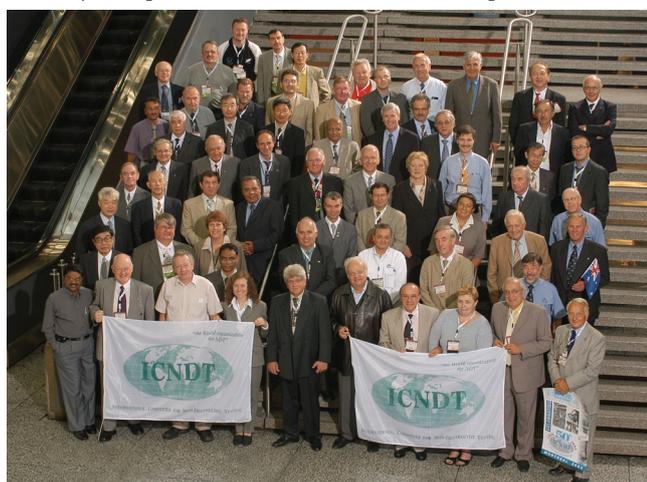
“Progress over the last twelve months has been rapid”, says Marshall, “and the implementation of the new policies and procedures is well on-track, enabling us to address the next objective – legalisation of ICNDT.”

“Indeed, the process of legalisation is well underway and we now have most of what is required”, continues Marshall.

ICNDT is to be legally registered in Vienna, a popular base for secretariat-type organisations and home of the United Nations office at Vienna (UNOV), the representative office of the Secretary-General in Vienna.

The ICNDT Full Assembly will vote on the legalisation of the organisation at its meeting scheduled to coincide with the 9<sup>th</sup> European Conference on NDT (ECNDT) in Berlin in September 2006.

There are many advantages to be gained from legalisation. ICNDT would become officially recognised as the focus of NDT on a global scale. As such it would be in a



position to apply for funding not only from member societies but also from other organisations. The International Standards Organisation (ISO) would regard the ICNDT as the focal point of the NDT community throughout the world, opening the door to the fulfilment of the next objective for

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## CHAIRMAN'S MESSAGE

Once again we are entering another stage of change with respect to the latest revision of ISO 9712. The revised document was approved in early January 2005 and the revised version is now available for all of us to purchase. As leaders of our NDT Community we must take the revised document and implement the revisions in our own individual schemes to support the change. ISO 9712 is the catalyst to drive a harmonised NDT certification programme but we must now recognise the need to harmonise the implementation and references required by the document.

The International Committee for Non-destructive Testing must take the lead and drive the message home to all supporters and users of the ISO 9712 Standard that to truly harmonise we need to develop a programme for Mutual Recognition of our Certification Programmes. It is in the best interests of our profession to establish and maintain a Mutual Recognition Agreement (MRA) that will allow the portability of NDT certification to be recognised around the globe. One of the major objectives during my term as ICNDT Chairman is to move towards a Mutual Recognition Agreement that will impact on ISO 9712 harmonisation and visibility of NDT as a profession.

The ISO 9712 provides us with references to determine the training, experience, responsibilities and some degree implementation requirements of the standard. To take the references further the committees and working groups of ISO TC 135 are reviewing and developing additional reference standards that will further assist harmonisation of the parent standard, 9712. Working groups of the committees include: Non-destructive Testing – a) guideline requirements for training syllabuses b) guidelines for training organizations c) performance based qualifications and certification and

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## ICNDT Journal



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Journal is available  
for downloading from  
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### Progress continues *continued from page 1*

ICNDT – its appointment as an Accrediting Body for NDT Certifying Bodies in accordance  
with ISO 17024.

It has long been one of Doug Marshall's goals to gain world harmonisation in NDT and  
have one unified international standard – ISO 9712.

"It makes sense for everyone throughout the world to be working to the same standard",  
says Marshall, "so that training establishments will all be teaching the same syllabuses – or  
at least in accordance with a reference syllabus; the levels of difficulty of exam questions  
will be uniform; and practical exams will all be similar."

"This will enable all societies throughout the world – large or small – to refer to and  
associate with one centralised, legalised body – ICNDT. It will allow ICNDT to assist with  
or fully co-ordinate the establishment of standardised certification schemes in all countries  
and regions."

The European Federation of NDT (EFNDT) has served as a model for this and several  
other ICNDT initiatives, for example its Mutual Recognition Agreement, and EFNDT's  
experience and expertise are assisting ICNDT to achieve harmonisation on a global scale.

The ICNDT Secretariat at the Canadian Institute for NDE has recognised that the most  
efficient and effective way to achieve many of its objectives is to use 'best-in-class' resources  
offered by member societies. Current examples include the ICNDT Journal and the ICNDT  
website, both of which are undergoing significant re-development thanks to combined  
efforts of the British, Canadian, German and Italian societies.

With Executive and/or PGP and/or Full Assembly Committee meetings scheduled  
for Milan in October 2005, Cairo in February 2006, Berlin September 2006, Auckland  
November 2006, Argentina 2007 and at the next world conference in Shanghai in August  
2008, continuing progress of all ICNDT activities is assured.

"To paraphrase our headline from the first new-format ICNDT Journal earlier this year, we  
are continuing to move dynamically in a positive direction", concludes Doug Marshall.

SHANGHAI CHINA 2008  
17<sup>th</sup> WCNDT  
NDT 无损检测  
26-30 August 2008 中国·世界  
In China and the World

## CHAIRMAN'S MESSAGE

*continued from page 1*

d) discontinues in specimens, etc. All  
of these committees have one primary  
objective and that is assist in the ease of  
harmonisation and mutual recognition.

The next step to challenge in the  
harmonisation of ISO9712 is addressing  
the level of difficulty of our theoretical and  
practical examinations. The level of difficulty  
must be the same if we are to recognise  
each other's certification programme.  
Development, sharing and maintaining a  
universal question bank would be a step  
forward to assist all Certification Bodies  
in achieving uniform questions. This work  
could be done within the scope of ISO  
TC 135 SC7 with an objective similar to  
Working Group 8 to achieve uniformity.

Non-destructive testing is our chosen  
profession and you are the representatives  
of our community, let's make sure we  
rise above our challenges and prove  
by involvement that we are the **'World  
Organisation for NDT'**

### Baldev Raj wins prestigious award

**D**r Baldev Raj,  
Distinguished  
Scientist and  
Director of Indira  
Gandhi Centre for  
Atomic Research  
(IGCAR), Kalpakkam,  
has been awarded the  
prestigious 'Jaeger  
Lecture Award' by



Dr Baldev Raj

the International Institute of Welding (IIW)  
and International Standards Organisation  
(ISO).

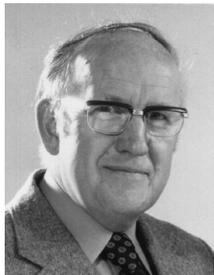
Dr Baldev Raj is the first Indian to  
receive this coveted Award in recognition  
of his research and significant contributions  
to the S&T welding and 'hard facing'. He  
developed and implemented successfully  
the 'in-situ' repair welding of cracked  
shrouds and blades of steam turbines,  
and also the procedure for hard facing  
nuclear components using nickel-based  
hard facing alloys at nuclear power plants  
which led to substantial reduction in cost  
and plant down-time. He is responsible for  
the development of indigenous electrodes  
for the 500 MW (e) Fast Breeder Reactor,  
which led to the availability of high quality  
welding electrodes in the Indian Market.

Dr Baldev Raj has also been honoured  
with the 'Lifetime Achievement Award  
for the year 2004' by the Indian Welding  
Society for his contributions to the field of  
Welding S&T.

He has to his credit more than 652  
publications in leading national and  
international journals and books.

**Roy Sharpe CEng FInstP FIM  
HonFInstNDT  
15.04.1925 – 01.05.2005**

Roy Sharpe was one of the founding fathers of modern non-destructive testing techniques.



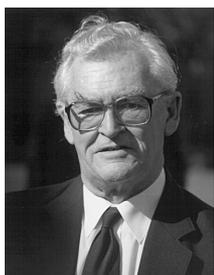
As the Head of the National Non-Destructive Testing (NDT) Centre, based at the Atomic Energy Research Establishment (AERE), Harwell, UK, he oversaw the development of numerous methodologies that have been used for quality assurance and defect measurement in a wide spectrum of industrial applications, ranging from detecting defects in aero engines, gas pipelines and even in the clock face of Big Ben in London.

Roy Sharpe travelled widely to lecture and promote the cause of NDE research and advised several foreign governments, including those of Pakistan and Turkey on the setting up of NDT Centres. He was a Fellow of the Institute of Physics and of the Institution of Metallurgists and an Honorary Fellow of the British Institute of Non-Destructive Testing. He also served on a number of international committees, including the International Committee for NDT (ICNDT), which honoured him for his services to NDT Research, and was Chairman of the International Institute of Welding Commission V.

In 1989, shortly before his retirement from Harwell, Roy Sharpe's seminal contribution to the development of NDT was recognised by BINDT through its institution of the Roy Sharpe Prize. This prize is awarded on an annual basis for 'significant contribution through research and development in any branch of NDT to the benefit of industry or society'.

**Dr R Halmshaw MBE FInstP  
HonFInstNDT  
29.11.1919 – 01.05.2005**

Dr Ronald (Ron) Halmshaw – the 'Father of Modern Radiography' – made profound and significant contributions to the field of radiography and NDT in general. He was not only an excellent researcher and application scientist, but also a very good teacher.



He retired from full-time employment

with the UK Ministry of Defence In December 1980.

Halmshaw was a member of the British Institute of NDT (BINDT) Publications & Technical Committee almost continuously from 1967 until his untimely death, Chairman for part of this period and Honorary Technical Editor of the British Journal of NDT for most of this time.

He published nearly 200 technical articles on NDT, mostly on industrial radiology, authored five books and contributed chapters to several others. His last book 'Non-Destructive Testing' ran to two editions, has been translated into other languages and was recently produced in CD-ROM format.

In 1985, Ron Halmshaw was awarded the Robert C McMaster Gold Medal by the American Society for Nondestructive Testing (ASNT).

**Graham Oates FRA,  
HonFInstNDT  
1937 – 2005**

Graham Oates was an inspirational leader blessed with a charisma and charm that made those who worked under him want to do their best for him. He led by example.



In 1971 he was given the responsibility of establishing a new centre of excellence by the CEGB, then the UK national electricity generator.

As a result of Graham's leadership and drive, the new centre soon started to have an influence. Success followed success and the centre grew quickly to ten times its initial numbers and acquired a formidable reputation within and outside the electricity industry. Graham's work in establishing the centre has provided a lasting legacy. There were many practical achievements which helped to keep the UK electricity industry running safely and smoothly. Many of the scientific papers produced at that time are still regarded as state of the art and they are frequently cited in the current literature.

He became head of the whole Scientific Services Department and then, when engineering support was organised on a national rather than a regional basis, became a Director of the Operational Engineering Division. He was made a Fellow of the Royal Academy of Engineering, a Fellow of the Institute of Metals, Honorary Fellow of the British Institute of NDT and a Fellow of the Welding Institute. These were honours that correctly acknowledged his outstanding contributions to British Engineering.

After privatisation of the electricity industry, Graham became Director of Strategic Planning within Nuclear Electric.

**Jaroslav Obraz**

Ing Jaroslav Obraz CSc was a founder member of the Czech NDT Society (CNDT) and acted as its President from 1994 to 2000.



Together with his friends in the German, Italian and French societies, he led the Czech Society into the European EFNDT and organised various international events, especially with the German Society (DGZfP). Honouring his services, he received the EFNDT Award in Barcelona in 2002.

In his professional life, Ing Obraz worked at the State Research Institute of Bichovice from 1951 onwards and wrote several books and publications on the subject of ultrasound testing, which met with acclaim also abroad. He introduced many students to NDT in postgraduate studies.

The funeral speeches on 18<sup>th</sup> February in Prague were delivered by Prof Šikula from Brno and the current CNDT President, Prof Pavel Mazal, both of whom also recognised the untiring support by the spouse, Hana Obrazová. DGZfP was represented by Prof Heinrich Heidt.

Ing Obraz died at the age of 81 in his home town of Prague, on 10<sup>th</sup> February 2005, following a severe illness.

**ICNDT Journal No 3**

The next issue of the ICNDT Journal is to contain a Directory of Member Societies.

Would all Society representatives therefore ensure that the Secretariat (see page 2) has full up-to-date address and contact details, by 1 December 2005.

## NDT in art – from Lecce to Jerusalem

*Extract from an address by professor Amos Notea, President of the Israel National Society for NDT and Head, Quality and Reliability Research Centre at the Israel Institute of Technology, Haifa.*

“Honourable Presidents of Societies, Representatives of Societies from all parts of the world, and our host the Italian Society for NDT.

“Antiquity, beauty and holiness are concepts expressed in art and indicate the greatness of the human spirit. Over the generations there have been towering human figures in the world of art and architecture that inspire us today and motivate us to continue in their search for development of human mind.

“The development of new techniques for the analysis, study and restoration of treasures from the past is essential in order to preserve our cultural heritage and understand the vast human intellect possessed by the geniuses that created them.

“Activity in those fields is the key for multinational mutual appreciation, tolerance and even adoration. I would like to quote here from John Donne:

‘No man is an island,  
Entire of itself,  
Each is a piece of the continent,  
A part of the main.’

“The understanding leads to respect of members from other cultures and religions. It emphasises that all men were created in the ‘Image of God’. It shows that the abilities of man are beyond our perception.

“Each professional working on methods, techniques and analysis contributes to the object of peaceful coexistence of cultures and religions. With the promotion of the profession and technologies of NDT we create a stronger voice for our profession.

“We ask you all to join the initiative of the Italian Society for NDT – AIPnD – and the Israel Society for NDT – ISRANDT – to organise the 2007 Conference in Jerusalem, the city that for many centuries inspired and influenced human thinking and excited great prophets and artists all over the world. The city is Holy for a great part of the world and is of great interest to others.

“We look forward to seeing you in Israel in 2007.”

*Amos Notea*

## PGP Committee meets in Albuquerque

A meeting of the Policy and General Purposes Committee of the ICNDT took place on Tuesday 15 March 2005 in Albuquerque, New Mexico, USA, alongside the Spring Conference of the American Society for Nondestructive Testing (ASNT). Seven voting members were in attendance – Nardoni, PGP Chair; Marshall, ICNDT Chair; Farley, ICNDT General Secretary; Holliday, PANNDT Representative; Romero, EFNDT Representative; Link, Elected Member; and Sonneveld, Elected Member. Several representatives of ASNT attended the meeting as observers, including ASNT Chair Joe Mackin, President Henry Stephens and Vice President Sharon Vukelich. Sharon Bond provided the Secretariat for the meeting.

Various administrative issues were dealt with and the review of ICNDT Operating procedures was discussed, along with matters concerning the legal incorporation of ICNDT (see the front page).

It was reported that the German Society (DGZfP) had taken over the task of maintaining the website. The new website, which is being developed on the basis of user-friendliness and consistent design, is available at [www.icndt.info](http://www.icndt.info)

The calendar of events and directory are database generated. A system of alias e-mails will be set-up for the groups and officers. Authorised areas will allow for co-operation forums with archiving features. The new site will be totally functioning by the end of 2005.

Tony Sonneveld reported that the memberships of three societies – Mexico, Colombia and Serbia – are pending. Serbia’s application has been received from EFNDT and is under review prior to approval by the General Assembly. Mr Sonneveld is to explore membership of societies within the Africa region.

Mr Nardoni suggested that participation of Arabian countries within ICNDT should be promoted.

The Committee discussed the scope of the ICNDT and the issue of representation on the ICNDT as one NDT Society per country. Also discussed was the possibility of accepting ‘sections’ to the ICNDT. For smaller countries it may be more feasible to group as a region.

The next Executive Meeting will be held in Milan, Italy – October 2005.

The next PGP meeting will be held in Cairo, Egypt – February 2006.

## 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](http://www.iso.org)

## Future ICNDT meetings

Executive Committee  
PGP Committee  
ICNDT & PGP  
PGP Committee  
PGP Committee  
ICNDT & PGP Committee

Milan, October 2005  
Cairo, February 2006  
Berlin, September 2006  
Auckland, November 2006  
Argentina, October 2007  
Beijing, August 2008

## AFRICA

**African Regional Conference to be held in Cairo, February 2006**

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 – to take place 11-13 September 2006 in Cairo – will have an international participation of knowledge in the interdisciplinary fields of non-destructive testing and their applications. The national and international communities are invited to participate in the conference to enrich and promote knowledge and techniques for non-destructive testing, and to envisage future prospects and trends.

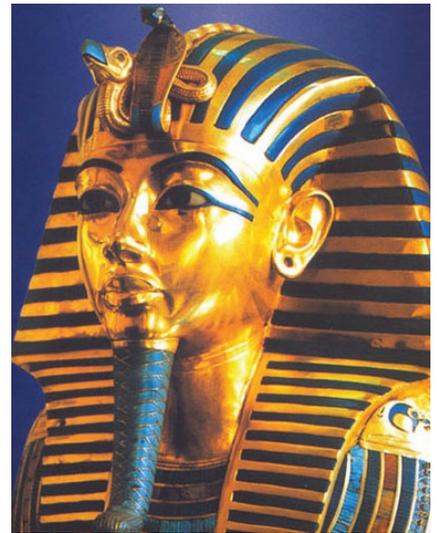
The scientific activities of the conference will include keynote presentation by international and regional recognised scientists to highlight recent progress in non-destructive testing, to address their regulations and the promotion of applications of non-destructive testing in industry. The conference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

Main sponsors of the conference are 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 include:

- 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 will be held concurrently with the conference, the venue for which is the Sheraton Cairo. A programme of pre- and post-conference tours is to be 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

Working closer together

The organising of the 12<sup>th</sup> APCNDT Conference continues and, to this end, the call for abstracts has been sent out to member societies, the ICNDT group as a whole and, in fact, many parts of the world.

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

I am very pleased to add that, at the time of writing, we have been able to secure another two sponsors: SGS Group & ATC. Logos for these sponsors appear on the call for abstracts. It is only with support such as this that any society can take on such a large task as the hosting of the Asia Pacific Conference.

In addition, Dr Baldev Raj has graciously accepted our invitation to be keynote speaker during the Asia Pacific Conference. Picking up where the 16th WCNDT left off, his presentation will focus on the 'Frontiers of NDE', to continue to promote current mature R&D in NDE.

We are also pleased to announce the contribution that the IAEA will be making 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.

Our theme of 'Working Closer Together' has, as previously stated, meant that the AINDT (Australia) and the NZNDT would begin working even closer in the region to develop and instigate changes in the delivery of qualification and



'Working Closer Together'

certification services on a wide range.

In the last months this has finally resulted in the 'Joint Associations', being awarded a contract to supply these services to the New Zealand NDT industry, as well as the development of accreditation of other services (pressure equipment, passenger ropeways, cranes, etc) to the Certification Board of Inspection Personnel (CBIP) in New Zealand.



Les Dick (right) of NZNDT and Vince Wilson of AINDT shake on the contract they have signed

We thank the CBIP for putting the trust in us to make the transition to full ISO 9712 accreditation for NDT personnel and, ultimately, the chance to form the basis of a similar system for these other inspection personnel.

This contract can only enhance the work to be put in by the newly formed APCNDT Working Group on Qualifications and Certification to ISO 9712.

As the current 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 and encourage you to get involved in the IAEA and 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

12th Asia Pacific Conference on Non Destructive Testing 2006

Call for Abstracts



Looking Forward - Together

## EFNDT Meeting of the Board of Directors, Stockholm, April 2005

A meeting of the EFNDT Board of Directors was held on 3<sup>rd</sup> and 4<sup>th</sup> April 2005 at the offices of the Swedish Accreditation and Certification body SWEDAC in Stockholm.

The meeting was attended by Mike Farley (President), Vladimir Klyuev (Vice President), Gerhard Aufricht, Rainer Link, Torben Lund, Emilio Romero, Roger Roche (Immediate Past President), Gerard Hennault (deputising for Xavier Deliege, Treasurer), Professor Vera Krstelj (Chair of WG5), Michel Poudrai (Chair of Certification Executive Committee), Irena Pushkina (translator) and Matt Gallagher (Secretary).

Apologies were received from Giuseppe Nardoni and Dr Volker.

A minute's silence was held to mark the recent deaths of Professor Obraz, who was for many years the President of the Czech Society, and Dr Graham Oates, President of the European Council for NDT (1984-1987).

The financial report from the Treasurer was approved and the Secretary was asked to issue invoices for 2005 fees. An update of the EFNDT website, run by DGzFP, is planned.

Members discussed the elections for President, Vice President and Board due at the General Assembly in November 2005. Several Board Members will reach the end of their term in office and will not be eligible for re-election. This is therefore an excellent opportunity to introduce some 'new blood' to the Board.

### Certification

The Board congratulated BINDT on the Manchester 'Certification 2004' Conference and approved in principle the transfer of responsibility for the EFNDT's Multilateral Recognition Agreement to the Certification Executive Committee. The Croatia Society Certification Body has been registered by EFNDT. The CEC has put in place procedures to audit and approve Certification Bodies which are not readily able to gain accreditation. Discussion continues on the arrangements for release of the EFNDT (ECP) question bank which combines questions submitted by BINDT (PCN), DGzFP and

COFREND. The Board urged the publication of the Code of Practice on the approval of NDT personnel working under the Pressure Equipment Directive.

**EF** European Federation for  
**Non-Destructive Testing**  
**NDT**

### Anti-Personnel Landmine Detection

Professor Krstelj reported on the continuing and broadening work of the group.

### Strategic Review Action Plans

Dr Link announced the availability of new information services provided by the German Society via the EFNDT website. EFNDT agreed to pay the registration fees necessary to allow each member society access. Details on [www.efndt.org](http://www.efndt.org)

### 9<sup>th</sup> European Conference on NDT Berlin 25-29 September 2006

Dr Link reviewed the planning for the conference. The exhibition space, having been sold out, has been extended and again is approaching sell-out. There is little doubt that the 9<sup>th</sup> ECNDT in Berlin 2006 will be the event in NDT in 2006.

### 10<sup>th</sup> European Conference on NDT, 2010

Two excellent proposals to host the ECNDT in 2010 were discussed. These were made by the Czech Society (Prague) and the Russian Society (Moscow). Both proposals met the criteria and will be taken forward to the General Assembly for a decision. The Board considered that in 2010 the time will be right for the Conference to be held in Moscow and unanimously recommends support of the Russian Society proposal.

The next Board meeting will be held on 11 and 12 November 2005 along with the General Assembly on 12 November 2005 in Vienna, Austria, by kind invitation of OGzFP.

Mike Farley

## Harmonisation well-received at Uzbek conference

ICNDT Chairman Doug Marshall had the pleasure of attending the National Uzbekistan NDT Conference held in Tashkent, Uzbekistan, 25-26 May 2005. The conference was organised through the State Agency for Uzbek Standards under the coordination of Ms Elena Azizova and Mr Andrey Sadikov and support of the International Atomic Energy Association, IAEA. The National Conference was well attended, which resulted in standing room only for the first day. Although it was National Conference, representatives from surrounding countries were in attendance, including Kyrgyz Republic and Tajikistan.

ICNDT was invited to participate at the conference and deliver a formal presentation on the benefits of ICNDT membership, development of a National Society, guidelines to implement ISO 9712 as an Uzbek National Standard and identify changes between ISO 9712:99 and ISO 9712:2005.

As a result of the presentation on the benefits of ICNDT membership, further meetings were held with the regional NDT coordinators and various government Ministries to development a project plan. In many cases the information and documents required were easily addressed through the ICNDT website. The interest rolled over to the representatives of Kyrgyz Republic and Tajikistan who also participated in the discussions for long-term sustainable growth of NDT within the country and regions.

Harmonisation and promotion of the ISO 9712 was well-received and plans undertaken to upgrade the non-destructive testing capabilities in accordance with the international standard. The conference participants recognised the need to enhance



Douglas Marshall (left) with international representatives at the Uzbekistan NDT Conference in May 2005

safety, manufacturing, equipment reliability and research through standardised NDT practices and harmonised NDT certification schemes.

The ICNDT guidelines for Nondestructive Testing Qualification and Certification were well-received and in future will be the template for implementation of their centralised certification programme.

## Slovenian Society salutes pioneers of NDT

The Slovenian Society of Non-destructive Testing (SSNDT) has granted an acknowledgement of gratitude to Mr Dušan Horvat and Mitja Šipek, pioneers of NDT in Slovenia.

Certificates to this effect were handed over by the current president of the Society, Prof dr Janez Grum, and the manager of the Section for qualification and certification of NDT personnel in Slovenia dr Božidar Bruder at the 7<sup>th</sup> Slovenian Conference of NDT, which took place at the Adria-Airways facility at the Brnik airport, Slovenia.

The awards were made in recognition of the two gentlemen's contribution to non-

destructive testing, for their efforts in the service of SSNDT, for their representation of the Society in Slovenia and abroad, for organisation and conduction of NDT training courses and for their very important co-operation in the arrangements to achieve the accreditation of SSNDT for qualification and certification of NDT personnel in Slovenia.



Left to right: the President of SSNDT Prof Dr J Grum, Dr B Bruder (holding one of the works of art, handed over as a reward to each of the two celebrated pioneers), Mr M Šipek and Mr D Horvat



### 9<sup>th</sup> European Conference on NDT

Deadline for  
Abstract Submission  
1<sup>st</sup> October 2005



## The Event for NDT September 25-29, 2006 with Exhibition



GERMAN  
SOCIETY FOR  
NONDESTRUCTIVE  
TESTING

organised by

EF European Federation for  
Non-Destructive Testing  
NDT

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

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eMail: exhibition@ecndt2006.info

<http://www.ecndt2006.info>

## Leonardo Project on Training in Non-Destructive Testing

The European Programme of Training for the Qualification of Non-



Destructive Testing Personnel is a project framed within the pilot programmes of Leonardo Da Vinci communitarian action of the European Union in the field of professional training, the objective of which is to develop European training programmes in Non-Destructive Testing at level 1, level 2, and level 3 in five methods: Penetrant Testing, Magnetic Particle Testing, Eddy Current Testing, Ultrasonic Testing and Radiographic Testing.

The project begins with a study of the state-of-the-art in NDT training in the partner countries, which will be used as the basis for the development of comprehensive training materials for students and trainers, published in English, Spanish, German and French.

The end product will be of use to countries of the European Union, as well as many others in the international community. It will provide a common document for education and study, reinforcing the harmonisation obtained through the certification standards ISO 9712 and EN 473.

This project is one of the 25 projects chosen from 65 pre-selected by the Spanish Leonardo agency out of 125 presented/ displayed proposals.

It has a budget of 459,505 Euros, of which 344,307 Euros is funded by the EU; the balance will be contributed through the work of the participant partners. The planned project duration is two years.

The Promoter of the project is the National Centre of Vocational Training Cartagena (CNFPO), (Murcia), Spain and participating partners are the Spanish Society for Non-Destructive Testing (Madrid), the German Society for Non-Destructive Testing (Berlin), the British Institute of Non-Destructive Testing (Northampton) and the French Society for Non-Destructive Testing (Paris).

## Highlights of ASNT's 14<sup>th</sup> Annual Research Symposium

With more than 370 participants, the ASNT Research Symposium held 14-18 March 2005, at the Hyatt Tamaya Resort in Albuquerque, New Mexico, USA, featured three notable addresses.

Dr Robert Green of the Johns Hopkins University's Department of Materials Science and Engineering gave the keynote address: 'The Importance of Imaging in Nondestructive Testing'. He covered a spectrum of applications where imaging challenges still exist for NDT researchers to develop improved methods. Among the techniques discussed were visual inspection, photoelasticity, holography, thermometry and vibro-thermometry, optical imaging of ultrasound, acoustic microscopy, non-contact ultrasound, X-ray radiography, tomography and topography.



Dr Robert Green (left) is presented with an award for his keynote address by Glenn Light

Dr Alfred Broz of the Federal Aviation Administration and recipient of ASNT's 2005 award for Sustained Excellence focused his address on 'Aviation Incidents as R&D Motivators'. Broz discussed the FAA's research, engineering and development initiatives, specifically focusing on non-destructive evaluation, inspection and testing for both ageing and new aircraft.

The third address was made by the ASNT 2005 award winner for Innovation, Dr Edmund Henneke of the Department of Engineering Science and Mechanics at Virginia Tech. He addressed vibro-thermometry, how it was conceived and first applied in the 1970s. He described how the initial results set the stage for future developments. Each of these key presentations was well-attended and -received.

During the Research Symposium, ASNT was also pleased to host the ICNDT meetings for its Policy and General Purposes Committee and the Executive Committee.

### Upcoming ASNT Conferences

- ASNT Fall Conference and Quality Testing Show – 17-21 October 2005, Columbus, Ohio, USA
- 15th Annual Research Symposium – 13-17 March 2006, Orlando, Florida, USA

Visit [www.ASNT.org](http://www.ASNT.org) for updates on paper submission information, programme details, registration information and exhibiting opportunities for each event.

### ASNT certificate holders' data

ASNT certificate holder information is now published online at [www.asnt.org/certlist](http://www.asnt.org/certlist). The comprehensive listing, which had been published annually in the February *Redi-Reference* issue of *Materials Evaluation*, was switched to an online directory in order

to provide the most accurate and timely information throughout the year. The online database is updated monthly. It contains information on the over 4400 holders of

ASNT NDT Level III certification and the more than 3870 holders of ACCP certificates as well as those with PdM Level III certificates. Each certificate holder's record is accessible online. The database can be searched through a variety of alphanumeric, geographic and relational capabilities. The information provided includes an individual's name, city, state or country of residence, certificate number and the NDT programs, methods and techniques for which requirements have been met.



Despite some unseasonable weather in Albuquerque, the ASNT Spring Conference was well-attended



There was standing room only in the lecture theatres

### ASNT publications online

*Research in Nondestructive Evaluation (RNDE)*, the research journal of ASNT, is now available to subscribers in either print or electronic formats. Subscriptions can be purchased for either media or both, giving readers more choice. *RNDE* covers experimental and theoretical investigations dealing with the scientific and engineering bases of NDE, its measurement methodology and a range of applications of materials and structures that relate to the entire life cycle, from manufacture to use and retirement. The top ranked journal publishes peer reviewed articles by recognised NDE authors. A searchable index of abstracts by author, title or chronology is online as well. Visit *RNDE* online at [www.rnde.org](http://www.rnde.org).

*The NDT Technician (TNT)*, ASNT's popular quarterly publication that brings news and information to NDT practitioners, is available free in electronic format. Subscribe online through the ASNT web site. Visitors to the site can also provide feedback, access to an archive of articles and the Technician's Corner with links to training, certification and career resources for technicians.

For additional information contact: Betsy J Blazar, Sr Manager, Marketing & Membership, American Society for Nondestructive Testing, Inc, 1711 Arlingate Lane, PO Box 43228-0518, Columbus OH 43228. Tel: 800-222-2768; E-mail: [bblazar@asnt.org](mailto:bblazar@asnt.org); [www.asnt.org](http://www.asnt.org)

## PAN-AMERICA

### Fourth Pan-American Conference to be held in Argentina

**D**uring the third Pan-American Conference held in Brazil, AAENDE from Argentina was selected as the organiser of the fourth Conference.

AAENDE ([www.aaende.org.ar](http://www.aaende.org.ar)) is the acronym for the Spanish name of the Argentinian Society, that is a non-profit organisation which nucleates all the different parties involved in Non-Destructive & Structural Testing (ND&ST).

ND&ST actually started in Argentina many years ago, hand-in-hand with the construction of the nuclear power plants and partially sponsored by the United Nations Development Programme (UNDP), and gradually extended to non-nuclear activities. In the course of years a national certification scheme has been developed within the framework of ISO 9712, and people are active in keeping it up-to-date, extending the scheme to include new methods and techniques. At present, many companies, non-profit organisations, government agencies and universities are involved in ND&ST throughout the country. Many of them became corporate members of AAENDE.

The 4th PANNDT aims to gather together experts and companies engaged in the NDT field, to exchange ideas and experiences and to promote technological exchange.

The conference will be held for the second time in Latin America, in the city of Buenos Aires, from 22-26 October 2007.

This conference is organised by the Pan-American Committee for NDT, which congregates associations that develop related activities in the American continent fostering NDT activities in the region, and promoting the Pan-American Conference for NDT.

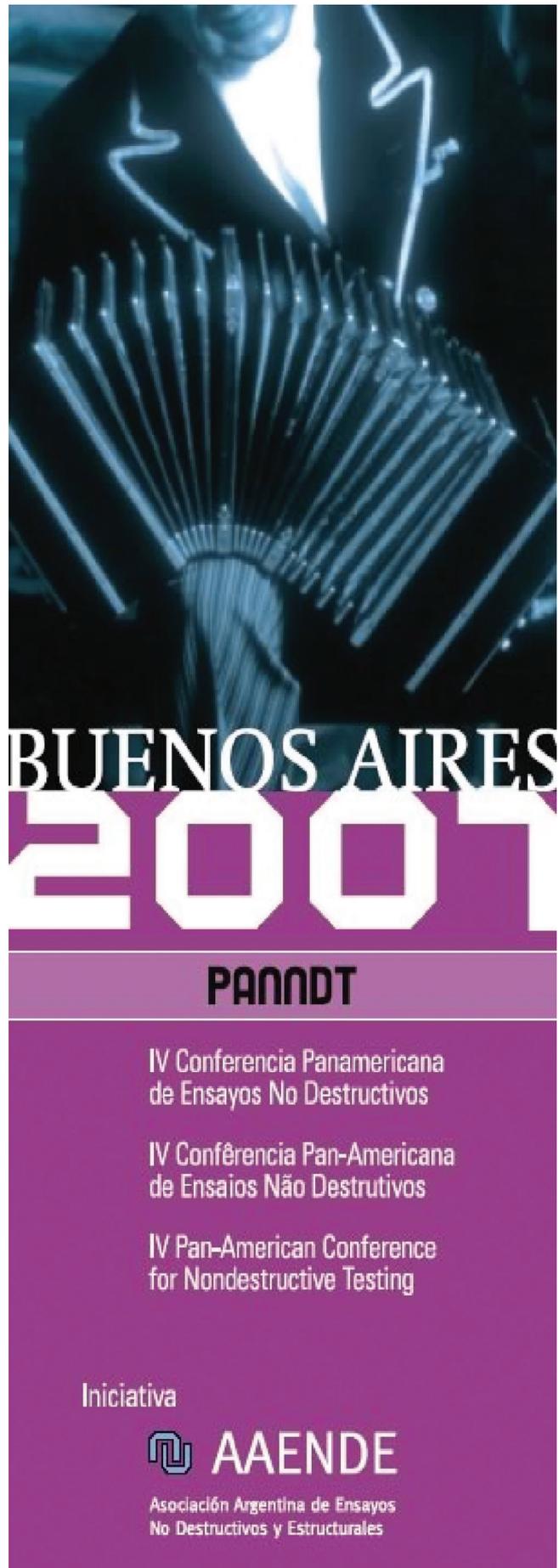
For further information on the next PANNDT, contact AAENDE, Altolaguirre 1674 (1431), Buenos Aires, Argentina. Tel: 0054 11 6772 7429/7257; Fax: 0054 11 6772 7426 7355; E-mail: [info@aaende.org.ar](mailto:info@aaende.org.ar); [www.aaende.org.ar](http://www.aaende.org.ar)

### Pedro Feres Filho elected President of ABENDE

**P**edro Feres Filho has been elected to the ABENDE's Board of Directors as President. Inaugurated into office on 1 April 2005, Pedro will be in charge until 31 March 2007.

Pedro Feres Filho is a mechanical engineer with over 20 years experience in inspection, acoustic emission, non-destructive testing, and most especially in non-intrusive techniques. He holds a Masters degree in fracture mechanics and is the author of 37 papers published in several countries (Europe, USA, Japan and Brazil). Pedro is a member of the Permanent Committee of Inspection of the Brazilian Institute of petroleum (IBP), the chairman of the Working Group for qualification and certification of personnel in Acoustic Emission techniques. This group is associated with the National Program of Qualification and Certification and the Brazilian Society for Technical Standards (ABNT). Pedro is also a Certified Level 3 in Acoustic Emission in compliance with ISO 9712. He is President of the Brazilian office of the Mistras Holdings Group.

ABENDE, the Brazilian Society of Nondestructive Testing and Inspection, is a non-profit organisation that encourages interaction and education of its members, which include NDT professionals of all kinds. It offers technological certification and education in non-destructive testing and related areas of quality control through a series of classes, events and publications. Established 27 March 1979, ABENDE is headquartered in São Paulo.



**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

## Training and certification of condition monitoring personnel

Work is continuing at the British Institute of Non-Destructive Testing (BINDT) on the development of the PCN scheme for training and certification of condition monitoring personnel.

BINDT's Condition Monitoring and Diagnostic Technology Group (COMADIT) has set up four working groups in vibration analysis, acoustic emission, infrared thermography and lubrication management and these have completed the examination question banks at levels I and II. The Level III question bank is now in the final stages of completion.

A number of Approved Training Organisations (ATOs) have now been authorised and accredited training is now being provided by these organisations at Levels I and II. BINDT is therefore pleased to report the successful launch of the scheme which will now grow rapidly, it is anticipated.

For further information contact Stephen Roe at BINDT on Tel: +44 (01604) 259056; E-mail: stephen.roe@bindt.org

## ISO NDT Technical Committee Update

The following two documents are in the draft stage for all ISO member bodies to review for comment. The purpose of the documents are to assist the non-destructive testing community to maintain a minimum requirement for all training organisations in order to conform to the minimum requirements of ISO 9712.

### ISO/TR 25108:2005 Non-destructive testing – Guidelines for NDT personnel training organisations

Scope: This technical report gives guidelines for Non-destructive testing – Guidelines for NDT training organisations, with the intention of harmonising and maintaining the general standard of training of NDT personnel for industrial needs.

It also establishes the minimum requirements for effective structured training of NDT personnel to ensure eligibility for qualification examinations leading to third-party certification according to recognised standards.

### ISO/TR 25107:2005 – Non-destructive testing – Guidelines for NDT training syllabuses

Scope: This technical report gives guidelines for Non-destructive testing – Guidelines for NDT training syllabuses, with the intention of harmonising and maintaining the general standard of training of NDT personnel for industrial needs.

It also establishes the minimum requirements for effective structured training of NDT personnel to ensure eligibility for qualification examinations leading to third-party certification according to recognised standards. In addition to non-destructive testing in general, its guidelines for syllabuses cover acoustic emission, eddy current, leak, magnetic particle, penetrant, radiographic, ultrasonic and visual testing.

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75% of the member bodies casting a vote.

ICNDT will continue to bring updates on various ISO Technical Committees and Working Groups to ensure that our members and the NDT community at large will keep abreast of the latest NDT news.

## Progress in the application of NDT to the measurement of the strength of concrete

Significant progress in the training and certification of personnel involved in concrete testing has been made at a workshop organised by the Italian Society for NDT (AIPnD) in collaboration with the University of Bologna (Alma Mater Studiorum), the Italian Department of Engineering for Structures, Transport and Infrastructure (DISTART), the Italian Materials Research Institute (LaRM) and the Research Centre for Materials and Structural Characterisation (CIMEST).

Twenty-two representatives of these important organisations met at a workshop in Bologna in April 2005 to formulate the methodologies involved and develop a series of guidelines for the qualification of personnel involved in the evaluation of concrete materials and structures.

Most importantly, students of this vital subject underwent trials and courses in the application of NDT techniques to the analysis, examination and monitoring of concrete and concrete structures.

For further information contact Professor Giovanni Pascale, DISTART, Alma Mater Studiorum, the University of Bologna, Via Zamboni 33, 40126 Bologna. Web: www.unibo.it



Students undergoing trials in the application of NDT techniques to the analysis of concrete and concrete structures

### 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.

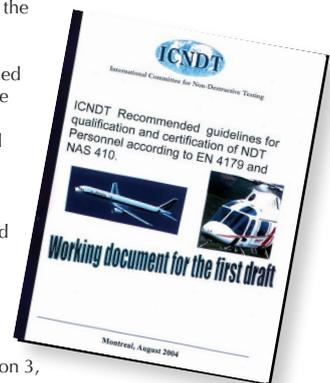
In an admirable example of harmonisation between Europe and the USA, the National Aerospace Standard (NAS) and the European Associations for Aerospace Industry have declared that the new edition of NAS410, Edition 3, is equivalent to prEN 4179 Edition 3, February 2003.

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.



## CALENDAR OF NDT EVENTS

Month	Date	Venue	Event	Contact
September 2005	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 2005	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 2005	2-4	Neuquen Patagonia- Argentina	CORENDE 2005 – Regional Congress on Non-Destructive & Structural Testing	info@aaende.org.ar www.aaende.org.ar/aaende_2005/ aaende_2005_ingles/index.htm
	8-10	Znojmo Czech Rep.	DEFEKTOSKOPIE 2005 – 35th International Conference and NDT Exposition	mazal@uk.fme.vutbr.cz http://cndt.cz
	15-18	Tokyo Japan	NDE Tokyo 2005 Exhibition for NDT, measurement, evaluation and diagnostic technology	nde@convention.jma.or.jp www.jma.or.jp/NDE/
	18-19	Athens Greece	5th National Conference on NDT of the Hellenic Society of NDT	hsnt@hsnt.gr www.hsnt.de
February 2006	7-9	Chennai India	OPE 2006 – Chennai International Conference & Exhibition on Pressure Vessels and Piping	bkc@igcar.ernet.in www.igcar.ernet.in/seminars/ ope2006chennai
September 2006	25-29	Berlin Germany	9th European Conference on NDT (ECNDT)	mail@ecndt2006.info www.ecndt2006.info
November 2006	5-10	Auckland New Zealand	12th Asia Pacific Conference on Non-Destructive Testing 2006	www.apcndt2006.com
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