



The World Organisation for NDT

Volume 7 Issue No 4

June 2006

CHAIRMAN'S MESSAGE

ICNDT committed to continuous improvement

Important events held through 2006 serve to fortify the dedication of the ICNDT Executive, Policy and General Purpose Committee and our regional groups, as committee meetings have already been held in Cairo, Egypt (AFNDT) and are to take place in Berlin, Germany (ECNDT – September) and Auckland, New Zealand (APCNDT – November).

As you read about the many activities and achievements contained on the regional and international pages of this Journal, I'm sure you will concur that this has indeed been a successful year for the International Committee for Non-Destructive Testing. I hope you will also see that the focus of many events has been on new technologies and techniques and/or centralised certification programmes. Survey results show that the ICNDT is doing an outstanding job of meeting the needs of our members and regional groups. ICNDT is committed to a process of continuous improvement with respect to membership satisfaction and will continue moving forward with your help as the worldwide voice of the non-destructive testing community.

Through your input during these technical meetings, conferences and personal contact, it has become obvious that our members have a mutual area of interest that requires ICNDT to take a lead role in developing an electronic networking system for members to access. A discussion forum is presently being developed by the Communication Committee as a tool for members to assist in problem-solving and address concerns whether it is technical, administrative or general knowledge. Our goal is to have the forum completed and accessible by the end of 2006.

The International Committee has been very active in keeping abreast of the changes to ISO 9712 and the referencing documents. In the previous issue of the ICNDT Journal, I spoke on the latest approved ISO documents and how they will make implementation of one harmonised NDT Standard much easier (ISO 25108 – Guidelines for NDT Training Organizations, ISO 20807 – NDT Qualifications for Limited Certification, ISO 25107 – Guidelines for NDT Training Syllabuses and ISO 17024 – General Requirements for Bodies Operating Certification of Persons).

I would like to take a moment and reflect on ISO 17024 – General Requirements for Bodies Operating Certification of Persons – and what it will do for our goal of one harmonised non-destructive testing certification as this new standard provides a benchmark for certification bodies offering certification of persons in any occupation and facilitates accreditation by national bodies. ISO/IEC 17024 is a comprehensive standard, which lays out the general operating requirements for a certification body, including provisions for a management system. The document describes conditions for application, examinations, surveillance and recertification. It also specifies the requisites for independence of training from certification, confidentiality of information, competence of staff and subcontractors, and the need for stakeholder input into certification schemes.

ISO/IEC 17024 is intended as a framework for certification bodies operating a certification programme for persons and as the standard against which an accreditation body can accredit the certification body. The standard itself is not enough to certify



Invitation to the 9th European NDT Conference

Dear friends and colleagues

At its meeting in Madrid in October 2001, the EFNDT General Assembly awarded the organisation of the 9th European NDT Conference (ECNDT) to the German Society for NDT (DGZfP), who had applied with the German Capital Berlin as a venue for 25-29 September 2006.

DGZfP is proud that this important task has been assigned to it by the European NDT community.

Following the 1st European NDT Conference in Mainz in 1978, it is to be held in Germany for a second time.

Berlin, after the fall of the Iron Curtain in 1989, has become a lively, exciting and fascinating city.

The preparations are progressing very well. We are indebted to our sponsors who are contributing so much. Thanks to participating companies it is possible to organise such a challenging event. The exhibition space with more than 100 exhibitors is fully booked. It will be the showcase of new products.

The Conference venue is the ESTREL Convention Centre.

The technical programme is now available. 507 oral presentations, 176 posters and 40 posters with short presentations in all the relevant fields of NDT will be presented in 116 sessions. We thank the programme committee, especially its Chairmen Dr Gerd Dobmann and Prof Anton Erhard, for their engagement.

The European NDT Conference is playing a key role in the information on the development and advancement of NDT within Europe and around the world.



Jörg Völker, ECNDT President and Dr Rainer Link, ECNDT Secretary

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CHAIRMAN'S MESSAGE

continued from page 1

a person. It is designed to be used in conjunction with a 'scheme standard', which lays out the education, knowledge, skills and experience requirements that a certified person in each occupation would be expected to meet.

To build on the above and my last message, the key element for true harmonisation is to maintain an equal level of difficulty internationally. This enhances the need for ICNDT to take the leadership role in developing a universal accrediting body for non-destructive testing certification schemes to ensure that true harmonisation is met.

Enjoy the summer and will see you at the European Conference for NDT on 25 September 2006 in Berlin, Germany.

Douglas J Marshall

Invitation to the 9th European NDT Conference

continued from page 1

Take your chance to extend your NDT network, renew or create new friendships with your colleagues, exchange your ideas.

The ECNDT is the largest gathering of NDT experts within Europe.

The ECNDT is presenting the forefront of NDT Technology.

The ECNDT is the NDT event in 2006.

You are all invited cordially to come and see for yourselves. Looking forward to welcoming you in September 2006.

Further detailed information on the 9th ECNDT is included on pages 6-9 in this issue.

*Jörg Völker, ECNDT President
Dr Rainer Link, ECNDT Secretary*

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

ICNDT visits Ghana

During the week of 27 February 2006, a meeting was held with Dr Kwaku Aboagye Danso, Deputy Director, National Nuclear Research Institute, Ghana Atomic Energy Commission, to discuss the benefits and opportunities for the NDT community in Ghana to join the International Committee for Non-Destructive Testing. The NDT community in Ghana with the support of the International Atomic Energy Association has done an excellent job in promoting non-destructive testing to industry. Although Ghana does not have its own Centralised Certification Programme, NDT technicians are certified to ISO 9712 through South African Institute of Welding in Johannesburg, SA. The NDT community in Ghana is relatively small but growing.



To facilitate their growth, they utilise their membership in the African Federation for Nondestructive Testing, AFNDT and benefits provided by ICNDT.

Future ICNDT meetings

**ICNDT & PGP
Berlin, September 2006**

**PGP Committee
Auckland, November 2006**

**PGP Committee
Argentina, October 2007**

**ICNDT & PGP Committee
Beijing, August 2008**

Meetings at ECNDT

ICNDT Executive Committee – Saturday, 23 September – 10.00 h
DGZfP (Headquarters), Max-Planck-Straße 6, 12489 Berlin

ICNDT Full Delegation – Sunday, 24 September – 10.00 h
ESTREL Hall A

EFNDT meeting – Friday, 29 September – 14.00 h
ECC Room 'Paris'

National Aerospace NDT Board (NA NDT) – Friday, 29 September – 14.00 h
ECC Room 5

EFNDT Working Group 1 – Saturday, 30 September – 10.00 h
ECC Room 'Paris'

Fourth African Regional Conference and First Exhibition on NDT report

Sponsored by the Egyptian Atomic Energy Authority and the International Atomic Energy Agency, the African NDT community gathered for the Fourth African Regional Conference and the First Exhibition on Non-Destructive Testing, from 11-13 February 2006 in Cairo, Egypt.

Opening Ceremonies were held on 11 February, with keynote lectures given by Douglas J Marshall, Chair ICNDT and Neil Jarvis, IAEA. Throughout the conference, nine technical sessions were held along with a poster session for a total of 73 presentations. Approximately, 300 participants were in attendance for this event.



Concurrently with the conference, the Fourth African Regional Conference held its first Exhibition on non-destructive testing. Exhibitors included: General Electric Inspection Technologies, MDS Nordion, Gammamat, Sonatest and NDT Balteau, Sofrates, Computerised Information Technologies, African NDT Center, SGS, Olympus, Yxlon International, Innov – X Systems, MEC, Modsonic, FOMA and the Chinese Society for NDT.

Organisers of this event stopped at nothing to ensure participants not only were updated on the latest innovations in NDT but also that their stay in Egypt was enjoyable.

Organisation of this conference and exhibition included the development of the AFNDT website and newsletter. The

next African Regional Conference and Exhibition will be held in Tunisia in 2009, where Mr Ferid Herelli will take over the position of President of the AFNDT.

During the closing ceremonies Dr Mike Farley and Mr Ferid Herelli participated in the signing of a cooperation agreement between the European Federation for NDT and the African Federation for NDT, providing another avenue of support for the AFNDT region.

Congratulations go to the Organising Committee for their efforts in making this an enjoyable and educational opportunity for the enhancement of non-destructive testing for the African Region as well as at the international level.

Organising Committee members include:

Prof Mahmoud Shafy, EAEA.
Dr Ali Gaafar, EAEA.
Mrs Howayda Taha, EAEA.
Dr Maged Sobhy, Beni-Suef University.
Dr A M El Sherif, EAEA.
Mr Tarek Mongy, EAEA.

IAEA Workshop

In support of the Fourth African Regional Conference and First Exhibition on Non-Destructive Testing, the International Atomic Energy Agency was invited to attend a Project Coordinators meeting, hosted by the Egyptian Atomic Energy Authority, to discuss and strengthen the training capabilities in non-destructive testing within the region. Attendees include: Algeria, Cameroon, Democratic Republic of Congo, Egypt, Ghana, Kenya,



Douglas Marshall (ICNDT Chairman), Mahmoud Shafy (AFNDT President)

Libya, Mauritius, Morocco, Nigeria, South Africa, Sudan, Tunisia, United Republic of Tanzania, Zambia and Zimbabwe.

Mr N Jarvis and Mr I Einav of the International Atomic Energy Agency, and Mr D Marshall, International Committee for NDT were also in attendance.



Neil Jarvis

This meeting reviewed the achievements which have taken place within the African Region including upgrading of laboratory facilities, and the establishment of authorised training and examination centres. The meeting also allowed for a breakout session where project coordinators prepared strategic plans for their facilities under consultation from IAEA personnel and ICNDT Chair.



E Romero, F Herelli, M Farley, M Shafy and N Jarvis – signing of the AFNDT Cooperation Agreement



IAEA Workshop attendees

AFRICA

Project Coordinators Meeting

A Project Coordinators Meeting of the AFRA Region on 'Strengthening Regional Training Capability in Non-Destructive Testing' was held in conjunction with the 4th Regional Conference for NDT organised by the African Federation for NDE (AFNDT) in Cairo, Egypt, the week of 13 February 2006.

The meeting was hosted by the Egyptian Atomic Energy Authority. Attendance included representatives from Algeria, Cameroon, Democratic Republic of Congo, Egypt, Ghana, Kenya, Libya, Mauritius, Morocco, Nigeria, South Africa, Sudan, Tunisia, United Republic of Tanzania, Zambia and Zimbabwe. Other participants included: Mr N Jarvis (IAEA), Mr I Einav (IAEA), Mr F Herelli (Project Scientific Consultant), and Mr D Marshall (ICNDT Chairman).

As this project has been active since 2002, this final meeting of the Coordinators was to review the achievement at both the national and regional levels.

Notable achievements include:

- ❑ Significant laboratory upgrades in approximately 13 countries.
- ❑ Approximately 65 personnel have been

trained or attended training courses relating to management and quality assurance systems.

- ❑ Approximately five countries have authorised training and examination facilities, some with the assistance of external certification bodies.
- ❑ Level III examinations have been ongoing since 2003.
- ❑ Several hundred training and inspection contracts have been secured or are ongoing throughout the project.

The AFRA region has made great strides but there are still some constraints which require further investigation. In particular, the ability for the NDT facilities to continue to function and remain relevant in its efforts to provide services in training and/or inspection services. A new project has been proposed for consideration by the IAEA to address:

- ❑ The development and implementation of regional training and certification strategy for the various levels of NDT personnel.
- ❑ To enhance competitiveness of NDT inspection service facilities through good managerial practices, financial management, quality management,

marketing and strategic planning.

- ❑ The strengthening of the sustainability of the NDT facilities.

Workshop

The meeting broke into small groups where Project Coordinators were requested to prepare strategic plans for their NDT facilities. Mr D Marshall (ICNDT Chairman), Mr F Herelli (Project Scientific Consultant), Mr N Jarvis and Mr I Einav (IAEA) acted as facilitators for this breakout session.

Recommendations

To finalise the meeting, recommendations made to the IAEA included:

- ❑ Recognise the achievements which have been made and continue to support the endeavours of the AFRA region through the provision of equipment, expert services and training to enable the project to achieve its objectives.
- ❑ Enhance coordination between IAEA-supported national NDT projects and the AFRA region.
- ❑ Continue to foster the use of innovative and good management practices in NDT institutions.



Mr Khodabux (Mauritius), Dr Aboagye Danso (Ghana), Mr Zergoug (Algeria)



Mr Matamba (Congo), Mr Dube (Zimbabwe), Mr Kanyanga (Zambia), Mr Hassan (Sudan)



Mr Jarvis (IAEA), Mr Marshall (ICNDT)



Mr Einav (IAEA), Mr Guild (South Africa)

ASIA-PACIFIC

The 12th APCNDT Conference

The 12th APCNDT Conference is now just 7 months away and our workload gets bigger each day. The call for abstracts closed on 31 March and as of mid-April there were some 120 abstracts and poster sessions loaded. Now begins the difficult task of shortening this list to give a wide spread of topics and to fit within the programme constraints.

The website continues to be updated regularly with new information, with registration forms, conference hotels, partners programmes, keynote speaker profiles and as we go to print, the draft programme topic-by-topic across the five days.

We are very pleased to announce that Dr Baldev Raj of India, will be our main Keynote Speaker at the conference opening sessions and he is to also give papers of his own, which will draw on his expertise and broaden your knowledge.

The meeting of the ICNDT's Policy & General Purposes Committee will be held on Sunday 5 November, so the world leaders in the NDT profession will be present for the remainder of the week to assist in the IAEA workshops.

Also come and meet the Japanese delegation, who will be hosting the 13th APCNDT in 2009.

So, visit the website: www.apcndt2006.com, where you will also find any and all information, contact details and sponsorship packages. There are still sponsorship opportunities, like that of Fuji who have taken the option of part-sponsoring the Conference Dinner, or RTD Steeltest who are part-sponsors of the Opening Cocktail Evening's drinks on 5 November.

With our major sponsors **Olympus NDT, GE Inspection Technologies**, plus the other supporters and sponsors: **Genesis Energy NZ, SGS Group, ATC Ltd, RTD Steeltest, Fujifilm** and the **Heavy Engineering Research Association**, 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, or by contacting the conference organisers.

As always, the continued support of groups such as the IAEA for the hosting of workshops in the days around the conference, is paramount. The development of an ISO accreditation system for developing countries from around the world is the end goal and will not be totally achieved in November 2006, but will be given a massive injection of knowledge and assistance.

So, if you feel that you have capacity to assist, we would love to hear from you!

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.

So 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*



AINDT delegate to APCNDT receives top award from the Australian Institute for Non-Destructive Testing

John Maccarone, AINDT delegate to APCNDT since 1998, has received the prestigious J H Cole Award for 2005 from the Australian Institute for Non-Destructive Testing at the Institute's national conference dinner held in Fremantle last November. This award is issued for outstanding services to the Institute.

John is well recognised in international circles and has played an important role in APCNDT, including the hosting of the 10th APCNDT conference held in Brisbane in September 2001. Despite the collapse of a national airline, and the added implications from the '9-11' disaster only days before, it was John Maccarone's calm, assured manner that steered the conference to a successful conclusion despite the intense pressures that threatened disaster.

Besides being a strong advocate for AINDT's involvement in APCNDT over many years, he has also played an instrumental role in the Australian Institute, including becoming secretary for six years from 1993 to 1999. This was followed by a further three years as president from 2000 to 2003. During all these years, being a detail man, he was to implement the many changes necessary to place the Institute where it is today – a leader in its professionalism and in its approach to international harmonisation for certification of personnel in Australia. John is still an active member as a voting delegate on APCNDT and also is a non-voting delegate to ICNDT.

In managing these duties, John has also played a major role throughout his career in the aviation industry, particularly in developing new techniques for the inspection of front-line fighter aircraft such as the F111. His dedication to perfection has continued into the oil and gas industry through his work at the BP Refinery in Brisbane. Over the last year he has been a principal player in establishing the criteria for certification of personnel for testing tank bottom floors, using magnetic flux leakage and other techniques. This work has been extended to produce a national standard for testing floors of oil storage tanks.

It is not possible to list all the contributions that John Maccarone has made to NDT both on a national and international level. What is perfectly clear is that he is a person who fully deserves the J H Cole Award for his efforts and achievements in making the NDT industry in Australia what it is today.



John Maccarone with his award at the AINDT national conference last November

9th European Conference on NDT (ECNDT)

Welcoming message from Dr J M Farley, President, The European Federation of Non-Destructive Testing (EFNDT)

The European NDT community is anticipating in an excellent European Conference in Berlin in 2006, organised by the German NDT Society, DGZfP.

Co-operation in Europe in NDT began over 27 years ago at a DGZfP national conference in Mainz in 1978. Professor Kopineck organised a meeting of European experts, which led to the organisation of this series of European conferences and the foundation of the European Council for NDT and then our European Federation for NDT.

We can be confident of a conference which will be excellent in all key matters – technical programme, exhibition, venue, attendance – and we can be sure it will be enjoyable as well.

To keep right up-to-date with everything in NDT, whether you are a student or professor, a technician or manager, please make the event in NDT in 2006 – ECNDT in Berlin – part of your plans.

See you there!

Mike Farley, President of EFNDT



Mike Farley

Programme Committee

Scientific Committee

Chairmen: G Dobmann, Germany; A Erhard, Germany

F Ahrens, Germany
 F Ammirato, USA
 J Bamberg, Germany
 O A Barbian, Germany
 P Benoist, France
 H W Berg, Germany
 L Burstein, Israel
 G Busse, Germany
 P Cawley, United Kingdom
 D Chauveau, France
 T Christensen, Denmark
 U Cohrs, Germany
 T de Keijzer, The Netherlands
 H Eggers, Germany
 U Ewert, Germany
 M Forde, United Kingdom
 O Førli, Norway
 J Goebbels, Germany
 L Gómez-Ullate, Spain
 A Hecht, Germany
 R Henrich, Germany
 M P Hentschel, Germany
 W Hesselmann, Germany
 J Hewitt, United Kingdom
 H Hintze, Germany
 T Jayakumar, India
 B Köhler, Germany
 V Krstelj, Croatia
 K J Langenberg, Germany
 A Le Brun, France
 G Maier, Germany
 M Maisl, Germany
 A Mandelis, Canada
 J Marr, Canada
 R Martinez-Ona, Spain
 P Meilland, France
 K Müller, Germany
 R V Murphy, Canada
 J Nehring, Germany
 O Nestaas, Norway
 B Neundorf, Germany
 K Osterloh, Germany
 S Pérez Ramírez, Spain
 N Pörtzgen, The Netherlands
 M Poudrai, France
 V Rebuffel, France

H Rieder, Germany
 B. Rotter, France
 H-J Salzburger, Germany
 U Schlengermann, Germany
 K Schnuer, Germany
 H J Schoorlemmer, The Netherlands
 B Sölter, Germany
 G Splitt, Germany
 M Stolzenberg, Germany
 J Thompson, United Kingdom
 P Tscheliesnig, Austria
 B Valeske, Germany
 V Vavilov, Russia
 H Wiggerhauser, Germany
 H Willems, Germany

Advisory Board

G Hennaut, Belgium
 M Poudrai, France
 R Roche, France
 J M Farley, United Kingdom
 G Nardoni, Italy
 V Krstelj, Croatia
 G Aufricht, Austria
 V V Klyuev, Russia
 E Romero, Spain

Information on participation

Please register at the Internet address www.ecndt2006.info or contact DGZfP e.V., ECNDT Secretariat, Max-Planck-Straße 6, 12489 Berlin, Germany. Fax: +49 30 67807-129.

Website

Interesting and useful information on the sessions and papers which will be presented during ECNDT may be obtained by visiting <http://www.ecndt2006.info/?page=conference/statistic>. The site will be regularly updated.

Participation fees

All fees will be charged in Euro. The amount of the participation fee depends on the receipt of payment by DGZfP.

| | Receipt of payment until 31 May 2006 | Receipt of payment after 31 May 2006* |
|---|---|--|
| Participants | 700,- Euro | 770,- Euro |
| Retired persons | 350,- Euro | 385,- Euro |
| Students (without University degree) | 350,- Euro | 385,- Euro |
| Companions | 130,- Euro | 130,- Euro |

* The payment has to be made by 31 July 2006 at the latest (receipt of payment). All payments after this date must be paid by credit card or cash on the registration desk. Persons who have not paid their registration fee will not be permitted.

- ❑ Included in the fee payable by participants, retired persons and students are:
Participation in the entire conference programme, access to the exhibition, coffee, lunch, poster evening, gala dinner, the booklet of abstracts, CD of papers, concert ticket and ticket for the local transport system.
- ❑ Included in the fee for the companions are:
Participation in the opening ceremony, gala dinner, concert ticket and ticket for the local transport system.

Confirmation of registration

All registrations received by DGZfP on or before 31 July 2006 will be confirmed in writing.

Cancellation

An application for refund of the participation fee minus a cancellation charge of 25% of the amount paid should be sent to DGZfP before 31 July 2006. We regret that we cannot consider any later applications. Any refunds will be made after the closure of the conference.

Liability and insurance

Neither the DGZfP nor the ESTREL will assume responsibility for damage or injury to persons or property during the conference. Participants are recommended to arrange their own travel and health insurance.

Conference and exhibition venue

The 9th ECNDT will take place at the ESTREL Convention Center Berlin (ECC), Europe's largest convention, entertainment and hotel complex. With a floor area of 15,000 sq m, the multi-purpose, fully air-conditioned ESTREL Center has space and facilities for all types and sizes of events.

ESTREL Convention Center
Sonnentallee 225
12057 Berlin
Internet: www.estrelcc.de

Conference Secretariat:

Steffi Schäske
German Society for Non-Destructive Testing
ECNDT Secretariat
Max-Planck-Straße 6
12489 Berlin, Germany.
Tel: +49 30 67807-120; Fax: +49 30 67807-129
E-mail: mail@ecndt2006.info

Contact during the conference:
Tel: +49 30 683125-301; Fax: +49 30 683125 311

Exhibition Secretariat:

Hannelore Wessel
German Society for Non-Destructive Testing
ECNDT Exhibition Secretariat
Max-Planck-Straße 6
12489 Berlin, Germany.
Tel: +49 30 67807-106; Fax: +49 30 67807-129
E-mail: we@dgzfp.de

The Exhibition will be located in the ESTREL Convention Hall Saal B + C, Main Foyer, Foyer 3 and in Foyer ESTREL Hall.

It will be open on:

| | |
|--------------------|---------------|
| Monday | 12:00 - 18:00 |
| Tuesday - Thursday | 8:00 - 18:00 |
| Friday | 8:00 - 14:00 |

Posters

Posters will be presented in Foyer 1. The poster show will be open for two days (Monday, 25 September and Tuesday, 26 September). To give the authors the chance to present their contribution in a discussion directly with smaller groups we are organising a special poster evening on Monday, 25 September 2006.

Breaks

Coffee breaks and lunch breaks (sponsored by YXLON International X-Ray GmbH) will be served in the exhibition and poster area (ESTREL Hall, ECC Hall B + C, Foyer 1, Foyer 3 and Main Foyer).

Translation

Simultaneous translation from English into German will be provided for:

- Opening ceremony (ECC Hall A)
- Session Mo.3.1 (ESTREL Hall A)
- Session Mo.3.2 (ESTREL Hall B)
- all Sessions in ECC Room 1



9th European Conference on NDT




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

organised by



GERMAN SOCIETY FOR NONDESTRUCTIVE TESTING



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

| | |
|---|---|
| <p>Conference Secretariat: Steffi Schäske Tel.: ++49 (30) 678 07 120 Fax: ++49 (30) 678 07 129 eMail: mail@ecndt2006.info</p> | <p>Exhibition Secretariat: Hannelore Wessel Tel.: ++49 (30) 678 07 106 Fax: ++49 (30) 678 07 129 eMail: exhibition@ecndt2006.info</p> |
|---|---|

<http://www.ecndt2006.info>

Hotels

600 hotel rooms have been reserved at the hotel ESTREL. The conference area is only a short distance away from the hotel, with which it is linked by a rotunda. Other hotels of various price categories, which are situated either close to the conference centre or in the city centre, can be booked via Berlin Tourismus & Marketing GmbH (BTM). You will find all registration forms enclosed in the programme or at the ECNDT website: www.ecndt2006.info. Please bear in mind that the hotel bill must be settled with the hotel.

Social programme

Monday, 25 September 2006

Poster evening – ESTREL Convention Center, Foyer 1 incl. snacks (sponsored by YXLON International X-Ray GmbH)

Wednesday, 27 September 2006

Gala dinner – ESTREL Convention Center
‘The golden twenties in Berlin’
(sponsored by RTD Holding GmbH)

Thursday, 28 September 2006

Classical concert – Berliner Dom (cathedral)
(sponsored by GE Inspection Technologies GmbH)

Excursion programme

In addition to the technical conference sessions, we have prepared a comprehensive entertainment programme for participants and their companions. Day or half-day trips to interesting places in Berlin and excursions to Berlin’s scenic environment with its forests and numerous lakes are planned.

Tours and Excursions with less than 20 participants will be cancelled.

Departure from and return to the Congress Centre ESTREL CC.

Registration will be accepted on a first-come first-served basis through the registration form. Forms received without the corresponding payment will not be considered.

½-day programme

**Monday
25/09/2006,
afternoon**

Berlin on a cruise:
Spree River
and Landwehr
Canal – approx
4 hours.

Nearly all important Berlin buildings can be viewed at leisure on this cruise. The lively, nevertheless well-founded information is presented by two representatives of the structurally determining epochs. A representative of the classicist buildings will present the merits of this epoch, whereas the representative of the modern style will explain the glass and steel constructions of the period after the fall of the Wall.



The Nikolai Quarter in Berlin-Mitte

1-day programme

Tuesday 26/09/2006

Sanssouci with its palaces, park and cultural landscape and Potsdam with its Dutch and Russian quarters – approx 7 hours.



Sanssouci Palace

The Palace of Sanssouci – ‘free of worries’ – will be toured, as well as the grave of its owner: Frederick the Great. The pertaining park with its lines of sight and many places of interest will be explored.

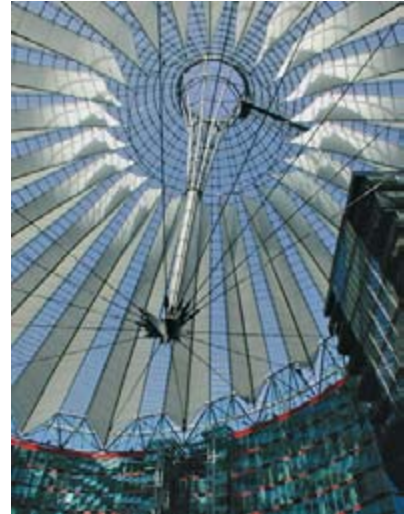
After lunch, the city of Potsdam will be toured by bus. The highlights here are the Dutch Quarter – built by Dutch colonists – and the Russian Colony, with its wooden houses and the Orthodox Chapel.

1-day programme

**Wednesday
27/09/2006**

City walk: The old and the new Berlin – approx 6 hours

Potsdamer Platz square with its two centres – Daimler City and Sony Center – constructed over the past years, completely from scratch in no-man’s-land. A few steps farther: Pariser Platz square – also newly built, but following the old model, held together by the Brandenburg Gate.



Sony Center at Potsdamer Platz

After lunch, a visit of the Museum Island with the world famous Pergamon Altar and the Gate of Ishtar. Later, a stroll along the splendid boulevard of ‘Unter den Linden’ and across the most beautiful square of Europe, the ‘Gendarmenmarkt’.

1-day programme

**Thursday
28/09/2006**

Two wonders of construction: Monastery of Chorin and the Ship Lift of Niederfinow – approx 8 hours.

This trip takes you to the Mark Brandenburg region, to the Monastery of Chorin. The well-preserved Monastery structure of the Cistercians served as the model for many buildings of the monks in Northern Germany. The enormous church is a symbol of brick gothic, and the most varied types of Halls provide an insight into life at a monastery.



Ship Lift of Niederfinow



Monastery of Chorin

After lunch, a totally different structure will be viewed: a ship lift. It rises gigantically above the River Oder, lifting and lowering ships over a drop of 36 metres between the rivers Oder and Havel.

**1/2-day programme
Friday 29/09/2006,
morning**

Politics in Berlin: Embassies, representations of German federal states, government buildings – approx. 6 hours.

In the centre of Berlin, the former death strip, where the wall divided

Berlin into two parts – East and West – and in the surrounding streets, there was space for the new, political Berlin. This is where more than 100 buildings were constructed or refurbished – many embassies, built in the style of their respective countries, displaying the greatest variety, numerous representations of the German federal states, aiming to outdo one another as regards style and splendour and the gigantic government buildings with libraries, kindergartens, new bridges among one another and across the River Spree. The professionally guided tour will be undertaken on bus as well as on foot, in part.



Federal Chancellery

Berlin

Being situated right in the heart of Europe, Berlin is a vibrant place and an attractive meeting point of the business and scientific community, artists and political decision-makers from around the globe.



Good traffic connections

With its three airports – Tegel, Schönefeld and Tempelhof – Berlin offers numerous air links to international destinations; it is an IC and ICE rail hub and has exemplary light rail and underground systems (S and U Bahn).



Climate

On average, maximum daily temperature during the summer months is 22-23°C (72°F), in winter 2-3°C (35°F). Precipitation is evenly spread over the year and amounts to 580 mm on an annual average.

Currency

The Euro is the currency of the Federal Republic of Germany. Most restaurants, hotels and shops accept standard credit cards such as American Express, MasterCard and VISA, etc.

World of shopping and entertainment

Stroll along Kurfürstendamm or Friedrichstraße and visit the Kaufhaus des Westens (KaDeWe) department store, 'Galeries Lafayette' or Potsdamer Platz, a square bordered by futuristic buildings.

Restaurants and nightlife

International restaurants tempt you to sample their tasty food around the clock. They are waiting to be discovered by you! Berlin's multi-cultural atmosphere is indicative of the dynamism of the German capital.

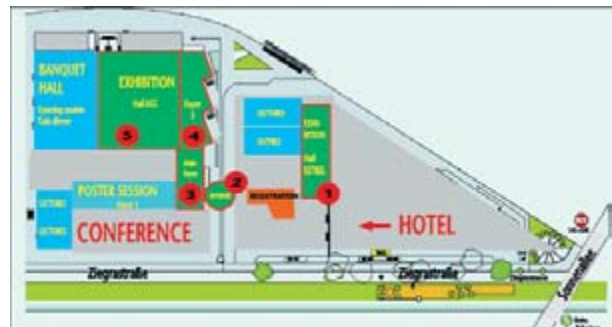
Muses and museums – royalty and palaces – entertainment and stages

Over 170 museums invite you to discover the treasures of world cultural heritage, such as the Pergamon Altar, Nefretete, the works of ancient and modern masters ranging from Giotto to Caravaggio, from Breughel to Caspar David Friedrich, from Joseph Beuys to the 'Young Savages'. Palaces and magnificent buildings, which were commissioned by King Frederic II and his successors, such as Charlottenburg Palace, the only large palace in Berlin that has been preserved, or Sanssouci Palace in Potsdam, make up the charm of classical Berlin. Berlin has no competition as regards the variety of theatres or stage productions. Over one thousand events take place every day, making Berlin a Mecca of people interested in art and culture from all over the world.

ESTREL Convention Centre

Exhibition area

More than 4,000 sq m exhibition space is available during the ECNDT 2006. European and international NDT societies will meet in Foyer 3 and in the Rotunda.



| | | |
|----------------|------------------------|-------------------------------|
| 1. ESTREL Hall | 303 sq m booth spaces | 27 NDT companies |
| 2. Rotunda | 48 sq m booth spaces | 12 NDT societies |
| 3. Main Foyer | 25 sq m booth spaces | 4 Publishers 1 NDT company |
| 4. Foyer 3 | 98 sq m booth spaces | 12 NDT companies |
| | 48 sq m booth spaces | 12 NDT societies |
| 5. ECC Hall | 1105 sq m booth spaces | 51 NDT companies |

A total of 91 Exhibitors (NDT companies) from 29 countries participate in the ECNDT 2006. Furthermore, 24 NDT societies and 4 publishers will present their organisations.

Breaks

Coffee breaks and lunch breaks (sponsored by YXLON International X-Ray GmbH) will be served in the exhibition and poster area (ESTREL Hall, ECC Hall B + C, Foyer 1, Foyer 3 and Main Foyer).

www.ecndt2006.info

ASNT's 15th Annual Research Symposium, Orlando, Florida, USA

ASNT held its 15th Annual Research Symposium from 14 to 17 March 2006 in Orlando, Florida, providing ASNT members with the opportunity to discuss with colleagues from around the world the very latest developments in NDT research and innovative applications of cutting-edge technology. Held at the Wyndham Orlando Resort, the symposium featured 67 papers in 17 sessions with topics ranging from Quantitative Ultrasonic Characterisation of Laser Engineered Parts from Army Mobile Parts Hospital to Structural Health Monitoring by In-situ Materials Analysis and Space Shuttle Wing Leading Edge Impact Detection System. Presentations of special significance were the Keynote Address, the Research Award for Sustained Excellence and the Research Award for Innovation.

Bill Lord, Emeritus Distinguished Professor of Engineering – Iowa State University, gave the Keynote Address, 'Electromagnetic NDT Methods – A 40 Year Retrospective or Retirement for Cause'. The address drew such a large crowd that additional seating was required. Lord discussed the use of magnetic flux leakage, eddy current and microwave techniques in the aerospace, nuclear power and gas pipeline industries, drawing on his own experiences to illustrate their development and discussing possible future directions for NDT research in this area.

Yoseph Bar-Cohen, of the Jet Propulsion Laboratory at the California Institute of Technology, was honoured with the Research Award for Sustained Excellence in recognition of his work in the field of biomimetics. His address, 'Biomimetics – Using Nature as an Inspiring Model for Innovation', was an exciting, multimedia overview of this advancing field.

The Research Award for Innovation was presented to Shant Kenderian, of the Aerospace Corporation, for his work on developing the laser-air hybrid ultrasonic technique. He spoke on 'Dynamic Railroad Inspection Applications Using the Laser-air Hybrid Ultrasonic Technique', explaining the history, characteristics and potential applications of the technique.

Prior to the opening keynote address, ASNT President Sharon Vukelich recognised Research Council and National Program Chair Glenn M Light, of the Southwest Research Institute, and Program Committee Chair Lisa Brasche, of Iowa State University, for the professional programme. All members of the organising committee were acknowledged by President Vukelich for their work on behalf of the Society.

Two short courses were offered at this year's Annual Research Symposium. Steven Shepard, of Thermal Wave Imaging, taught a course on 'Thermographic NDT', which addressed both the potentials and limitations of thermographic testing techniques for various applications. Joseph Rose, of Penn State University, taught a short course on 'Guided Wave Ultrasonics'. The course provided an introduction to guided waves, covered the principal theoretical concepts and discussed the use of guided wave technology as applied to NDT and structural health monitoring.

Thirty-five exhibitors presented the latest NDT equipment, supplies and services in the industry and spoke with attendees about what the future holds during the tradeshow. Participants were exposed to the latest innovations in NDT technology and were able to observe demonstrations of developments in NDT technology, techniques and applications.

ASNT thanks all those who helped make the 15th Annual Research Symposium a success. The Society looks forward to the 2007 symposium, which will also be held at the Wyndham Resort in Orlando from 26-30 March. Abstracts are sought and can be submitted through 15 September 2006. Research and development topics of particular interest include:

- NDE and Sensors for the Next Generation Space Vehicle
- Overhaul Inspection for Aviation
- Biomedical Applications of NDE Technology

- Ground Penetrating Radar
- Transportation Uses of Inspection Technology
- Electric Power Generation NDE Applications
- Automotive Sensor Technology
- Federal Research Needs and the Implications for Implementation
- Reliability Assessment of Inspection
- National Security Uses of NDE Technologies.

Visit the ASNT website: www.asnt.org for submission and event details.

IV Pan-American Conference for NDT Argentina, 22-26 October 2007 Hotel Panamericano – Buenos Aires

This conference is organised by the **Pan-American Committee for NDT**, which brings together associations that develop related activities in the American continent fostering NDT activities in the region, and promoting the Pan-American Conference for NDT. Jointly, two major events will take place: the ISO TC-135 and ICNDT PGP meetings.



Participants

We are expecting the presence of managers, supervisors, engineers, technicians, and NDT inspectors and researchers, working with equipment inspection, equipment and structure integrity, welding and also quality control, from fields as diverse as:

- Gas and petroleum and petrochemical industries
- Electric power generation (hydraulic, thermal, nuclear and others)
- Steel industry
- Automotive industry
- Aerospace industry
- Nuclear industry
- Rendering service companies
- Maintenance and inspection of different industries
- Universities and R&D Centres
- Art & Heritage Curators

Exhibition Hall

It is foreseen an Exhibition Hall will create a forum for the companies to promote their products and services, while visitors will have a unique opportunity to access the latest technologies, source new contacts, meet industry colleagues, keep up-to-date, and see hands-on demonstrations.

Social Programme

Buenos Aires 2007 will be a good opportunity to see one of the most European of all Latin American cities.

Visit us at: <http://www.aaende.org.ar>
E-mail: info@aaende.org.ar; Tel: 0054-11-6772-7429/7257;
Fax: 0054-11-6772-7426/7355

Organised by:
CONVENTURE- INDEXPORT MESSE FRANKFURT S.A.

PAN-AMERICA

CONAEND and IEV will have greater participation of the Latin American audience

Due to the entry of the IEV – International Conference on Integrity Evaluation and Life Cycle of Industrial Equipment – in the XXIV CONAEND, the event will have greater participation of the Latin American audience this year. In 2004, 62% of the international participants at CONAEND were from South America. This year the Latin American presence is expected to be 30% higher. Events will be held in the city of São Paulo from 23-26 July 2006. The core subjects of both events will be 'Technological Innovations in Inspection, NDT Evaluation, Structural Integrity and Life Expansion of Equipment'. CONAEND already has four sponsoring companies: ABTCP – the Brazilian Pulp and Paper Association, ABIQUIM – the Brazilian Chemical Industry Association, AAENDE – the Argentine NDT Association and AENDUR – the Uruguayan NDT Association.

Committee on Studies to Qualify Rope Access Professionals will develop standards for the subject

The Committee of Temporary Special Studies for Qualification and Certification of Rope Access Professionals met on 20 March 2006 at ABNT headquarters in Rio de Janeiro. The objective of this Committee is to develop a Qualification Standard for the subject. There is no technical certification in the country yet. On 3 November 2005, representatives of 17 companies met at ABENDE headquarters to discuss the certification for Rope Access or 'Industrial Alpinism'. ABENDE will be the certifying entity for professionals in this activity in Brazil. Rope access can be used in several sectors, among them platforms, ships, industries, tanks and others. Using this technique, workers can work on clearing, treatment and painting of surfaces, inspections, equipment installation and maintenance. It is an optional technique for work at height that combines the most advanced techniques for access to high sites and to confined space using ropes and climbing specific equipment in works involving risk of fall and/or difficult access. It allows for a reduction in working time generating a productivity increase and cost reduction, all in compliance with the safety standards established by the Regulatory Standard -18 (Working Conditions and Environment in the Construction Industry).

ABENDE holds an event for the automotive industry

The 1st Workshop on Nondestructive Testing for the Automotive Industry will be held on 24-25 July 2006. It is a 16-hour workshop directed to the automotive industry professionals. One of the guests holds a doctorate and PhD degree and is an expert in ultrasound spot welding; professor at the Physics Department of the University of Windsor, Canada, Roman Gr Maev.

Reinstallation of the Study Committee on Staff Qualification and Certification

The purpose is to review the NBR ISO 9712:99 Standard and compliance with ISO 9712:05. After review, this Standard will be set as a Mercosur Standard and published in two languages: Portuguese and Spanish.

ONS 58 – Sector Standardisation Agency approves two new standards

In January 2006 two new Brazilian NDT standards were approved: ABNT NBR 8048 – Non-Destructive Testing – Industrial

Radiography – Terminology that defines the terms used in non-destructive testing by conventional and digital industrial radiography. The ABNT NBR 15307 standard was also approved. It relates to the Non-Destructive Testing – Dynamic Load Testing on Large Structures – Procedures. This standard establishes the procedure for dynamic load testing on large structures. These standards can be purchased at ABNT at the site: www.abnt.org.br

ABENDE Magazine in a new format in 2006

ABENDE Magazine starts 2006 with a new look. The 12th issue in January brought some novelties in publishing and printing. The team grew and now has a Publishing Committee, a reviser responsible for commercialisation and web design. The cover story of January's issue was 'Staff Training and Certification in NDT'. See the subjects planned for coming issues:

The subjects for cover stories were elaborated to meet market expectations:

- 13 – March – NDT in the Steel Industry
- 14 – May – NDT and Predictive Maintenance
- 15 – July – The NDT History in Brazil
- 16 – September – NDT in the Electric industry
- 17 – November – NDT in the Mining Industry
- 18 – January 2007 – NDT in the Oil and Gas Industry.

If you want more information about the ABENDE Magazine, visit www.abende.org.br or call 55 11 5586-3170. ABENDE members receive the Magazine for free.

V CORENDE, Neuquén, Patagonia, Argentina V Regional Conference on Non-Destructive and Structural Testing

The V CORENDE was organised by AAENDE – The Argentine Society of Nondestructive and Structural Testing and Comahue National University – The Faculty of Engineering, Neuquén - Argentina.

With a great participation of people from many different sectors of the non-destructive testing world, the V CORENDE was held at the Engineering Faculty facilities.

The MERCOSUR Normalisation meeting and the V CORENDE has an important delegation from Brazil. Also, a technical exhibition of NDT products and services was held in parallel with the conference; companies from Argentina, Spain, Uruguay and the USA were present.

The Chair of the V CORENDE closed the meeting inviting all of us to the VI CORENDE, that will take place jointly with the PANNDT 2007 and ISO TC 135 Committee, in Buenos Aires, Argentina, from 22-26 October. Details at: www.aaende.org.ar, info@aaende.org.ar; Tel: ++54-11-6772-7429; Fax: ++54-11-6772-7426.



Opening ceremony



Brazilian delegation

CALENDAR OF NDT EVENTS

| Month | Date | Venue | Event | Contact |
|------------------|----------------------|---------------------------|---|---|
| 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 | 22nd 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 | 5-7 | St Petersburg Russia | The 7th International Exhibition on Non-Destructive Testing Equipment and Devices ‘Defectoscopy 2006’ | jane@ndtworld.com www.ndtworld.com |
| | 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 |
| March 2007 | 26-30 | Orlando, Florida, USA | 16th ASNT Annual Research Symposium | www.asnt.org |
| June 2007 | 11-14 | Harrogate UK | Second World Congress on Engineering Asset Management and Fourth International Conference on Condition Monitoring | daniel.grove@bindt.org www.wceam-cm2007.org |
| October 2007 | 22-26 | Buenos Aires Argentina | 4th Pan-American Conference on Non-Destructive Testing (PANNDT) | info@aaende.org.ar www.aaende.org.ar |
| November 2007 | 12-16 | Las Vegas USA | ASNT Fall Conference and Quality Testing Show | www.asnt.org |
| 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 |