



INTERNATIONAL COMMITTEE FOR  
NON DESTRUCTIVE TESTING

*The World Organisation for NDT*

## Minutes of an ICNDT GENERAL ASSEMBLY MEETING

**Thursday, 9 October 2014, Prague**

### Participants – voting

Dr J M Farley	Chair
Mr G Aufricht	Treasurer, Austria
Mr S K Babu	General Secretary, Singapore
Mr B Alves	Portugal
Ms S Bond	Elected Member IEC, Canada
Mr K Cain	South Africa
Mr J Conte	Chair - Membership, Brazil
Dr M Džapo	Croatia
Mr E Eckhardt	Slovakia
Mr R Engelbart	USA
Mr A Erhard	Germany
Mr P Fallouey	Chair - ICEC, France
Mr F Gomez	Spain
Mr E Gorkunov	Russia
Mr Gungtian Shen	China
Mr C Hakan Gür	Turkey
Mr F Hermansen	Norway
Mr R Klieber	Switzerland
Mr J Lee	Korea
Mr J Maccarone	Auditor, Australia
Prof P Mazal	Czech Republic
Mr N Ooka	Japan
Mr E Pulido	Colombia
Mr A Shekezo	Ukraine
Mr Y Shoef	Israel
Mr J Sillanpää	Finland
Mr C Sinclair	UK
Mr G Sofroniç	Serbia
Mr A Stanciu	Romania
Mr P Trampus	Hungary
Mr A Varmekousis	Greece
Mrs S Zaitera	Kazakhstan

### Participants – non-voting

Ms B Blazar	USA
Mr J Birir	Kenya
Ms E Cheprasova	Russia

Mr T Clausing	USA
Mr D Corcoran	Canada
Mr D Craig	Canada
Mr N Doniga	Romania
Prof A K Dunhill	UK
Mr F C Ferreira	Brazil
Mr M Ghaemi	Iran
Mr D J Gilbert	Secretariat
Mr Vieira Gomez	Portugal
Ms T Grant	UK
Mr R Guerard	Canada
Mr J Guild	South Africa
Mr G Idinger	Austria
Mr H Jansen	South Africa
Dr M Johannes	South Africa
Mr N Kim	Korea
Mr M Mihovski	Bulgaria
Mr R Morasse	USA
Mr A Mullin	Chair - WG1
Mr T Ogata	Japan
Mr I Prassianakis	Greece
Dr M Purschke	WCNDT President
Ms N Scutt	UK
Dr R Shipp	Secretary - ICEC
Mr G Shoef	Israel
Mr A Skozdev	Bulgaria
Mr Sze Thiam Siong	Singapore
Mr E Romero	Spain
Ms N Volkova	Russia
Mr P Wadyalkar	Australia
Mr Zhanwen Wu	China

### **Apologies**

J Grum	Slovenia
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### **1. Opening**

The Chairman welcomed all and opened the meeting. He thanked the Czech Society for organising the meeting and congratulated it on a successful European Conference.

### **2. Memorium**

Those assembled remembered those who had passed away since the last meeting.

### **3. Roll Call, voting rules**

All present were given the opportunity to introduce themselves.

The Chairman explained the voting procedures and declared the meeting quorate.

#### **4. Approval of minutes of 35<sup>th</sup>, 36<sup>th</sup> and General Assembly meetings**

The minutes of the 35th, 36th and General Assembly meetings held in Durban in 2012 were approved.

#### **5. Annual Report 2013**

Dr Farley went through the 2013 Annual Report for information.

#### **6. Status of Strategic Plan**

Dr Farley went through and explained revisions to the Strategic Plan.

He explained that Version 8 of the plan (V8) was prepared following discussions in Durban at the 18th WCNDT about the plan for the period 2012 to 2016. The current version is an update to recognise progress in 2013 and 2014 and to set down revised Action Plans for the second half of the four-year cycle up to the General Assembly in Munich (2016) and election of new officers.

The draft presented here (agenda item 17) would be updated and finalised to account for discussions here and in the earlier PGP meeting.

#### **7. Year-to-date financial report**

The Treasurer, Mr Aufricht, went through the year-to-date financial report. Following a request to explain what the professional services were, Dr Farley explained that these were services provided by Mr Thompson and Dr Shipp in support of the ICNDT's certification activities.

Mr Gilbert was asked to read out a list of member societies who had paid their ICNDT membership fees for 2014. Representatives of these societies in attendance were eligible to vote.

#### **8. Operating Procedures**

Dr Farley explained the need for the changes that had been made to OP12: Annual Report and Accounts and that this had already been approved at the Annual Meeting. Similarly, OP22: Recognition of Voluntary Effort had been approved by the PGP. Dr Farley requested confirmation of approval of these Operating Procedures by this General Assembly. Both were approved unanimously.

#### **9. Membership fees 2015**

Mr Aufricht put forward the Executive Committee proposal that the membership fees for 2015 would remain as 2014, i.e. Full membership €250; Associate Membership €100.

This was approved unanimously.

Mr Aufricht requested members to please cover the bank charges when transferring payments.

The Chairman thanked the Treasurer for his services.

## **10. Draft budget 2015**

Mr Aufricht and Dr Farley presented the draft budget for 2015 (appended). The final budget would be approved at the General Assembly in January 2015.

## **11. Membership**

Mr Conte presented his report. He recommended to the General Assembly that the membership applications from Iran (IWNT and IRNDT - both Associate) and Bolivia (ASBOSENDIC - Full) should be accepted.  
All agreed.

Mr Mirmajid Ghaemi (IRNDT) was presented with a membership certificate. Representatives of the other societies were not present.

The Chairman thanked all for their participation and closed the meeting.



INTERNATIONAL COMMITTEE FOR  
NON DESTRUCTIVE TESTING

*The World Organisation for NDT*

**Minutes of the 37<sup>th</sup> Meeting of the ICNDT  
Thursday, 9 October 2014, Prague**

**NOTE: This meeting followed on immediately after the General Assembly Meeting and the Agenda items are numbered accordingly.**

**Participants – voting**

Dr J M Farley	Chair
Mr G Aufricht	Treasurer, Austria
Mr S K Babu	General Secretary, Singapore
Mr B Alves	Portugal
Ms S Bond	Elected Member IEC, Canada
Mr K Cain	South Africa
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Mr E Eckhardt	Slovakia
Mr R Engelbart	USA
Mr A Erhard	Germany
Mr P Fallouey	Chair - ICEC, France
Mr F Gomez	Spain
Mr E Gorkunov	Russia
Mr Gungtian Shen	China
Mr C Hakan Gür	Turkey
Mr F Hermansen	Norway
Mr R Klieber	Switzerland
Mr J Lee	Korea
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Mr J Guild	South Africa
Mr G Idinger	Austria
Mr H Jansen	South Africa
Dr M Johannes	South Africa
Mr N Kim	Korea
Mr M Mihovski	Bulgaria
Mr R Morasse	USA
Mr A Mullin	Chair - WG1
Mr T Ogata	Japan
Mr I Prassianakis	Greece
Dr M Purschke	WCNDT President
Ms N Scutt	UK
Dr R Shipp	Secretary - ICEC
Mr G Shoef	Israel
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Mr Sze Thiam Siong	Singapore
Mr E Romero	Spain
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Mr P Wadyalkar	Australia
Mr Zhanwen Wu	China

## Apologies

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## 12. Progress reports

### 12.1 Membership

Mr Conte had delivered his report in the General Assembly (item 11).

### 12.2 Communications

Mr Gilbert presented his report (appended).

### 12.3 WG1

Mr Mullin presented his report (appended).

## 12.4 CEC

Dr Shipp presented his report (appended).

## 12.5 WG2

Mr Johannes presented his report (appended).

Dr Farley added that reports were planned covering the findings of the workshops.

He then noted that there was a requirement to re-elect the Chairmen of the Groups and the Group members, and proposed these as follows:

Committee/WG	Chairman	Members
Membership Committee	Joao Conte	David Gilbert, Sharon Bond, Alexander Mullin, John Maccarone, Emilio Romero, Shohei Ooka
Communications/ Internet/ Journal	David Gilbert	Sharon Bond, Shohei Ooka, Stefan Cullmann,
Certification Executive Committee	Patrick Fallouey (Sec: Robin Shipp)	<ul style="list-style-type: none"><li>▪ Alexander Mullin (WG1 Chairman)</li><li>▪ David Barnett (Asia-Pacific region)</li><li>▪ Gerhard Aufricht (ICNDT Treasurer)</li><li>▪ Jim Guild (Africa region)</li><li>▪ João Rufino Teles Filho (Pan America region)</li><li>▪ Matthias Purschke (Europe region)</li></ul>
WG1 Qualification and Certification	Alexander Mullin	See <a href="C:\Users\Mike\Documents\ICNDT\ECNDT Prague\ICNDT GA Prague 2014\WG1 members last update Oct 2014.pdf">C:\Users\Mike\Documents\ICNDT\ECNDT Prague\ICNDT GA Prague 2014\WG1 members last update Oct 2014.pdf</a>
WG2 Research and Education	Manfred Johannes	TBC: B Venkatraman, Steve Dixon, Betsy Blazar, V Krstelj, Younho Cho, Tony Erhard

This was approved with the following changes:

- WG1: Mr Clausing would replace Mr Engelbart after the ASNT Fall Conference in October 2014
- CEC: Mr Ooka would replace Mr Barnett
- CEC: Mr Aufricht or Mr Idinger
- CEC: Mr Guild would be replaced by Mr Jansen

Subject to these changes the above table was approved unanimously.

The Chairman thanked the Group Chairmen and Group members, including those retiring, for their contributions.

## **13. 19<sup>th</sup> World Conference 2016**

Dr Purschke presented a comprehensive status report on the organisation of the 19<sup>th</sup> World Conference on NDT, to take place in Munich, Germany, 13-17 June 2016. The Call for Papers would be issued soon. It was anticipated that the exhibition area would sell out early in 2015.

## **14. Regional Group reports**

Representatives of the regional groups presented their reports. Where available these are appended.

## 15. Forward Plans

### 15.1 Strategic Plan

Dr Farley went through the Strategic Plan. His presentation is appended.

### 15.2 Condition Monitoring

Dr Farley reported on ICNDT activities in the field of Condition Monitoring. He noted:

- International Society for Condition Monitoring to become a Liaison Member of ICNDT
- Create a Working Group specifically on CM, with membership from ICNDT and ISCM
- Elect a representative to ISO TC 108
- Joint forward planning of conferences

He asked for volunteers to join the working group and invited cooperation of other CM/SHM bodies. The following countries' societies present already had an interest in CM:

Australia  
Brazil  
Czech Republic  
Finland  
Germany  
Hungary  
Israel  
Japan  
Kazakhstan  
Korea  
Russia  
Singapore  
Slovakia  
UK  
USA

### 15.3 Review of structure of ICNDT and regional groups and fees model

Dr Purschke presented the EFNDT proposals on the re-organisation of ICNDT and the Regional Federations.

Dr Farley then presented his summary of this and proposal for possible new fees structure (appended).

Some discussion followed, including the following comments:

Engelbart - it is necessary to detail the benefits of membership to societies in order to justify any increase in fees.

Fallouey - it would be good to have a short summary of the proposals for members to present to their respective Boards.

- important to bear in mind the global harmonisation of standards
- societies might want to be represented at global (ICNDT) level, not just regional level.



Sofroniç - who will define what is a small, large, medium size society?

Purschke - fees structure needs further discussion but is tied to new organisation structure.

- DGZfP, as a larger society, is prepared to pay an increased fee.

Sinclair - it would be beneficial to have professional support.

- BINDT would probably be willing to pay higher fee subject to approval by its Council.

Guild - assumes regional federations would keep their own constitution.

Gomez - proposal for new fee structure needs to be finalised.

Ooka - (agreed).

Babu - could define society grade by no. of members and fee accordingly (e.g. \$1 per member).

Farley - need agreement of reorganisation in principle before getting into detail.

Dr Farley proposed the following next steps, which were agreed:

- Listen to comments here in Prague.
- ICNDT prepare draft proposals and circulate to Regions and Members.
- If sufficient consensus, draft revised Constitution and Operating Procedures and follow formal rules for approval of constitutional change.
- Target would be to have changes in place for implementation by the new Officers who will come into office in June 2016.

Dr Farley acknowledged EFNDT President Matthias Purschke for his preparatory work on the ICNDT/Regional Structure.

## **16. Associated bodies**

### 16.1 ISO

Dr Hatano presented his report (appended). Ms Bond added comments specific to SC7 (Personnel Qualification).

## **17. Other business**

### 17.1 New MRA signatories

The following new signatories to the MRA were announced:  
Colombia, Greece, Hungary, Iran, Slovakia, Turkey

### 17.2 Note re: Iran membership

Mr Conte noted that the IRNDT membership was subject to the receipt of further documentation. Once this is received the membership committee will consider whether full membership is applicable.

## **18. Future meetings**

General Assembly – 30 January 2015, 13h00 GMT, Internet meeting to approve Annual Report and fees for 2015.

PGP – 11 August 2015, Cartagena, Colombia, alongside Pan-Am Conference (date and venue to be confirmed).

General Assembly – June 2016, alongside 19<sup>th</sup> WCNDT, Munich, Germany.

The Chairman thanked all for their participation and closed the meeting.

## APPENDICES

### **ICNDT Communications Report to the General Assembly, 9 Oct 2014, Prague, Czech Republic**

#### *1. Website*

The ICNDT website is the subject of continuous review by the Communications Working Group (CWG) and I should like to thank Stefan Cullmann, and his colleagues at the German Society for NDT for their continued support and assistance and for hosting the website.

A meeting of the CWG was held in Mumbai, with myself and Shohei Ooka in attendance and Sharon Bond and Stefan Cullman on teleconference. Informal discussions have taken place here.

The Strategic Plan presents details of specific areas for activity and development. We do plan a significant upgrade over the next few months.

Overall, it is the intention to make the website a valuable and attractive resource not only for ICNDT officers and members but also for the NDT community as a whole.

#### *2. ICNDT Journal*

First of all I would like to acknowledge with thanks the support of Sharon Bond and the Canadian Society once again for support.

I should also like to thank the individual societies and regional representatives who regularly produce and submit material for publication in the journal.

Copies of the most recent issue are available here and these are, of course, available for downloading from the website.

We urge society representatives to request their webmasters to download and incorporate the newsletter into their own sites or at least link to it on [icndt.org](http://icndt.org)

The next issue of the Journal will be published in March 2015.

We plan to publish at least three issues next year, in February, August and December. The corresponding deadlines will be 1 Jan for Feb, 1 May for June, and 1 November for December. Sharon will be emailing societies inviting material.

With the website and the Journal we as ICNDT are in an excellent position to exploit the power of the electronic and the written word – I urge you to use them.

Thank you for your support.

David J Gilbert  
October 2014



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## **WG1 on NDT Qualification and Certification**

### **Report to IEC 23.09.2014**

#### **COMMITTEE ADMINISTRATION**

WG1 Action plan was updated and approved by IEC on 31<sup>st</sup> January 2014. There is one new action that shall be done – Develop the table of ISO standards used for NDT of different products. Revision of action plan and proposals from WG1 members for new actions will be discussed in Prague.

There are three new members appointed in 2014 - Jingyuan Ji (Chinese Society for NDT), Roger Engelbart (ASNT) and Hakan Gur (Turkish NDT Society). Total number of WG1 members is 19.

Forthcoming physical meeting will be in Prague, October 6, 14:00 – 17:00

#### **COMMUNICATION AND KNOWLEDGE SHARING**

There are four Qualification and Certification groups in ICNDT regions with which WG1 has communication through its members: Asia Pacific – S K Babu, P Milligan, EFNDT – M Purschke, R Rodriguez, Africa – J Guild, H Jansen, Pan-America - J Rufino Filho, S Bond. Written report of regional meetings is expected to be provided by Prague meeting.

First draft of Guidance for developing countries seeking to establish national certification schemes was developed by Mike Farley and discussed in Glasgow on 31<sup>st</sup> January. It will be published in ICNDT Guide on qualification and certification of personnel for NDT as Appendix 9.

SK Babu keeps up-to-date directory of NDT personnel certification bodies. It was decided that column for MRA registration should be added.

Qualification/Certification workshop is planned during 11<sup>th</sup> ECNDT in Prague on 10<sup>th</sup> October. Program has been developed and speakers were invited (Appendix 1).

First draft of interpretation of 'top 20' EN ISO 9712:2012 statements was developed after Mumbai meeting and sent to the WG1 members. Responses from David Barnett, Gerhard Aufricht, Matthias Purschke, Norikazu Ooka, Rodolfo Rodríguez, SK Babu, Vitaly Radko, Peter Milligan, Nicole Scutt, Kyung-Cho Kim, Jingyuan Ji, Harold Jansen were received. Based on received comments second draft of interpretation of 'top 20' EN ISO 9712:2012 statements was developed and distributed among the members for further comments with aim to receive them by 15<sup>th</sup> of August. Second draft will be discussed in Prague with the target to finalize by the end of 2014.

Meeting with ASNT is going to be held during ASNT 2014 Fall Conference at the end of October in Charleston, USA.

It is expected that new revision of ANSI/ASNT CP-106 “Nondestructive Testing - Qualification and Certification of Personnel” will be published soon and it will be presented by Roger Engelbart during Q&C workshop in Prague.

## **GLOBAL HARMONISATION AND RECOGNITION**

Possibility of qualification and certification of personnel when ‘introducing new NDT methods and techniques’ by the example of MMM technique is under discussion managed by P. Fallouey.

Intermediate draft of Guideline for administering practical examination will be discussed during WG1 meeting in Prague, managed by S K Babu.

Development of the table of ISO standards used for NDT of different products is completed.

### **Workshop on Qualification and Certification of NDT personnel Prague, Friday Oct 10th, 9.00 to 12.00**

Joint Chairs: Alexander Mullin (WG1) and Patrick Fallouey (ICEC)

<b>Time</b>	<b>Speaker</b>	<b>Topic</b>
9.00 - 9.15	Mike Farley, Chairman ICNDT	Scene-setting
9.15 – 9.30	Nicole Scutt	Comparison of implementation of ISO 9712 by different PCBs
9.30 – 9.45	Roger Engelbart	New CP106
9.45 – 10.00	Alexander Mullin	Issues raised in current ICNDT review of standard ISO 9712:2012
10.00 -10.15	Rodolfo Rodriguez	Value/importance of experience before certification
10.15 – 10.30	SK Babu	Comparison & review best practice for renewal / recertification
10.30 – 10.45	Joao Rufino Teles	What is new in ISO-IEC 17024 -2012 for NDT?
10.45 – 11.00	Patrick Fallouey	Training syllabus
11.00 – 11.15	Harold Jansen	Personnel Qualification and Certification: Training Hours
11.15 – 11.30	Robin Shipp	The ICNDT Examination Question Bank
11.30 – 11.45	Sergey Kolokolnikov	Qualification and certification of personnel when introducing new NDT method MMM (ISO 24497:2007)
11.45 - 12.00	Discussion	



## ICEC Report to ICNDT General Assembly October 2014

### MRA Schedule 1 (OP 19)

- **Colombia:** I have still had no response concerning their MRA application, in spite of their initial interest in this.
- **Belgium:** The Directors of BANT are shortly to discuss signing MRA Schedule 1 and applying for registration under Schedule 2.

### MRA Schedule 2 (OP 19)

- **The Netherlands:** The application for SKO to register under MRA Schedule 2 was accepted by ICEC members apart from a request for them to supply some further information. This has now been provided.
- **China:** As noted in my previous report, I have been in touch with Ji Jingyuan, Deputy Executive Director of ChSNDT. They were very keen to have a copy of the Examination Question Bank and they readily agreed to MRA Schedule 2 registration when I pointed out the benefits of that. The MRA application is on hold awaiting a PCB Compliance Assessment.

### Operating Procedure OP 19

- Following discussions at the Zagreb Conference in October 2013 there was a requirement to revise the criteria for registration in OP 19 – in particular the requirement for expert NDT participation in an assessment. In addition I would like to simplify the format along the lines of OP 23. A first draft of the revision is in hand.

### PCB Conformity Assessment (OP 20)

- I have now arranged a PCB assessment of **ABENDI (Brazil)** in November, to be carried out by a Lead and a Support Auditor. The necessary advance payment has now been received and the auditors have been given the go-ahead. The Canadian auditor will require a Business Visa: I have provided a letter of support on behalf of ICNDT and ABENDI are providing a letter of invitation.
- **SAIW (South Africa)** have now completed their EQB purchase having given a commitment to seek MRA Schedule 2 registration. We have arranged a meeting with Jim Guild at the Prague conference to discuss this, among other matters.
- As noted above, a PCB CA needs to be arranged for China.

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- **Malaysia** are seeking funding for a PCB Compliance Assessment prior to applying for MRA Schedule 2 registration. I have supplied information to assist with this but there have been no developments so far.

### Examination Question Bank (OP 23)

- The EQB has now been supplied to **SAIW (South Africa)**, **Inspecta Sertifiointi Oy (Finland)** and **ChSNDT (China)**. (The supply to SAIW and China is on the understanding that they are committed to register for MRA Schedule 2.)
- As requested, I have offered the EQB to **Argentina** free of charge in view of their work done in translating it into Spanish. They have accepted the offer and I am awaiting further details before despatching it.
- I have an action from the last IEC to prepare a questionnaire on EQB user experience but have not had time to progress this.
- I have a concern that PCBs paying for support for the EQB are not getting much for their money. The main aspect of support is updates and improvements to the question bank, or even translations into other languages. The current budget includes investment to carry this out and we need to progress this. (Note the offer from SAIW described below.)

### Operating Procedure OP 23

- Experience with the initial sales of the EQB has revealed the need for further minor changes to the draft Work Instruction supporting OP 23 and I will circulate that for comment and approval by the ICEC and ICNDT WG1 as soon as I have time to make the changes.
- Experience has also shown that the EQB User Manual is in need of revision and that a short 'Quick Start-up' document would be useful. Again, I will progress these when I have time.
- Harold Jansen of SAIW has offered to provide additional questions for the EQB. This is a good development but it exposes the fact that we do not have a process for verifying new questions. I have an action to draft a proposal for this (probably as an additional Work Instruction to support OP 23).

Robin Shipp  
1 October 2014

# ICNDT Working Group 2: Education and Research Activity Report and Call for Support

**Manfred S. JOHANNES**

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## **Abstract:**

The ICNDT WG 2 was constituted at the 18th WCNDT in Durban to look into Education and Research in NDT. ICNDT Executive Committee compiled a business plan for WG 2. In 2013 two regional meetings have been held - at the QNDE Conference in Baltimore, USA and the second at the 13th APCNDT in Mumbai, India. The European NDT conference gives the opportunity to feedback on the aims and objectives of the WG 2 and to obtain input from parties in Europe who may have interest in Education (at University level) and Research in NDT.

**Keywords:** Education, Training, University Degree, Research in NDT

## **1. Introduction**

The International Committee on Non-destructive Testing (ICNDT) was constituted in 1955 by a group of European Countries, USA, Japan, China, India and the USSR. Its main objective was to gather Scientists and Technologists from all over the world in order that they could pool together their common experiences in promoting the development of NDT applications which was in its very early stages.

For many years the main aim was to organise a World Conference on NDT once every 4 years and to promote and assist countries in establishing NDT societies who on their part promoted the correct use of NDT in their respective countries.

Since the nineties the ICNDT has been seeking avenues to play a larger role in NDT world-wide and in 2000 a new constitution was adopted. In 2008 the ICNDT was registered as a non-profit organisation in Vienna. The members elect the executive committee at the general assembly and the executive committee runs the activities of the ICNDT in line with a strategic plan.

## **2. The ICNDT Strategic Plan**

The Executive uses the strategic plan to manage the activities of the ICNDT. The plan is divided into four sections:

- Promotion of the importance of NDT
- Support to ICNDT Member Societies
- Certification
- Education and Research
- Radiation Protection
- ICNDT Management and Administration

A copy of the strategic plan can be viewed on the ICNDT homepage ([www.icndt.org](http://www.icndt.org)) in the document store.

## **3. The Education and Research section**

Concerning the Education and research section, the following activities were identified and pursued:

- A global survey of NDT Education at University level



- Promotion of international partnerships between Universities to facilitate NDT education at University level, starting with a survey of existing international partnerships, for publication on the ICNDT website
- The establishment of Training guidelines for novel techniques
- Arrange International Workshop on Imaging NDE
- The production of ICNDT Monographs

The progress on the above activities has been slow and limited. The following activities have been pursued and staged successfully:

3.1 The global survey of NDT Education at University level started as an EFNDT project and is still on going. This information will be published on the ICNDT webpage when completed.

3.2 Workshops were staged in 2013 both at the QNDE Conference in Baltimore USA, and at the 11<sup>th</sup> APCNDT in Mumbai, India. The objective is to share best practices internationally in NDT Education. Seven presentations from around the world were delivered in Baltimore, some of which were repeated in India. The additional presentations in India were delivered by India, Russia and ASNT. The following are some of the conclusions reached:

- Levels of NDT education and training and identified deficiencies:
  - NDT awareness for practicing Engineers must be pursued;
  - NDT awareness as part of Bachelor level courses in Engineering, including the so-called NDT Minor option, have been successfully offered at IOWA State University;
  - NDT Bachelor level degree courses are becoming available in many countries e.g. at Northampton University in the UK for NDT practitioners;
  - NDT Certificate level and Masters level courses are offered at IOWA State University and Dresden International University. These courses are in the process of being made available on-line and, in parts, through distance learning;
  - NDT courses are taught as part of a PhD or Engineering Doctorate degrees
  - Classical NDT training for NDT Practitioners (theory and practical) at Level 1, 2 and 3 for eventual NDT certification are offered all over the globe in accordance with the ISO syllabus TR25107 or equivalent syllabi as short courses.
  - In the USA a large number of colleges offer NDT education, all leading to certification to ACCP or ASNT T1A. This was news to many participants, as the perception internationally is that in the USA NDT personnel are trained in the non-formal sector though a series of short courses and not in structured academic programmes as mentioned in the presentation;
  - In India the numbers of NDT personnel trained at colleges and Universities were staggering and the education system has proven itself;

- The presentation on education in Russia focussed on the online learning programmes under development there. By making use of these technologies the best type of training and education will be available throughout Russia and will also be available to all Russian speaking countries.
- 3.3 The ICNDT will establish links on the ICNDT webpage to all universities and training institution institutions, to provide easy access to these courses and to facilitate communication between the institutions with regards to education at large.
- 3.4 To assist Universities around the world to pitch the various courses at the same level, the ICNDT will publish lists of typical and suitable literature on the webpage. It is the intent to comment of the level of education for which literature is ideally suited. Through such a data base Universities wishing to offer education in NDT can orientate themselves as to what is practiced in other countries.
- 3.5 For the awareness training, even at the engineering level, various PowerPoint presentations and videos have been produced. A list of this material, including the links, will be published on the webpage.
- 3.6 Concerning research in NDT it became clear that the role that ICNDT could play would be a role to disseminate information on research institutions and their area of interest and expertise. The ICNDT has established on its website ([www.icndt.org](http://www.icndt.org)) a new register of institutions and other organisations that carry out research into NDT and associated disciplines. The register can be found under the ‘Resources’ tab on the home page. Authorised representatives of organisations involved in research activities are invited to add their details free-of-charge, at: [www.icndt.org/Resources/RegisterEntry.aspx](http://www.icndt.org/Resources/RegisterEntry.aspx) It is clear that the register is compiled from information supplied by research organisations. Whilst every effort is made to ensure that the details are correct and as up-to-date as possible, ICNDT cannot accept any responsibility for errors or omissions.\
- 3.7 The establishment of Training guidelines for novel techniques
- As new NDT techniques are developed the need arises for appropriate training material. Although the industry at large as well as Universities and research institutions publish books and reports on their new developments, the ICNDT is from time-to-time approached to assist in this field. Technologies where a need for training material has been expressed includes: Advanced NDT for which the IAEA is publishing a TecDo;, NDT of Concrete structures; A Practical guide to IRT; NDT of cultural heritage artefacts; Phased Array UT and TOFD.
  - The IAEA in co-operation with APCNDT countries and the BAM in Berlin has compiled a comprehensive course in digital radiography and Digital Imaging NDT. In Durban a pre-conference workshop was offered on digital imaging. It is the intent to promote this training internationally, to assure that the users of these “new” technologies can reap maximum benefit of employing these techniques.
  - To facilitate communication between Universities and also between Research Institutions the ICNDT will assure that biannual workshops will be included in

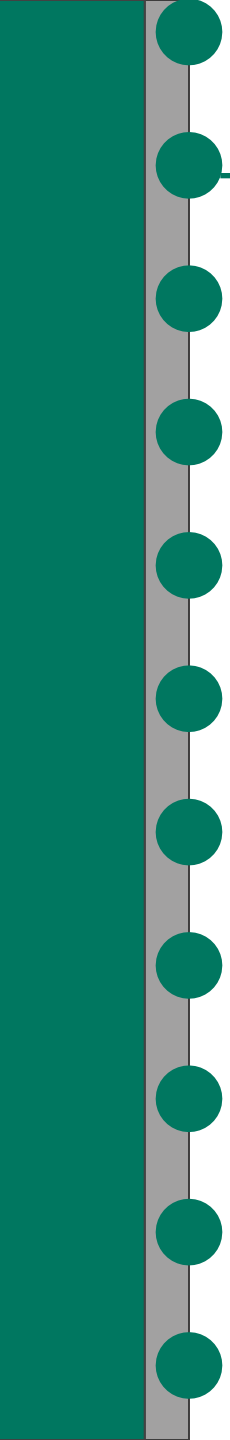
the Conferences organised in the ICNDT regions as well as at the WCND, which takes place every 4 years.

#### **4. Conclusion**

This is a short overview of interactions which have taken place in the past 2 years since the 18<sup>th</sup> WCNDT in Durban. Much more needs to be done and the ICNDT invites you to submit proposals and suggestion to Working Group 2 on issue you would like to see addressed.

#### **5. Acknowledgement**

The input from the ICNDT Executive committee, the ICNDT Secretariat, as well as the input to the workshops by the invited speakers is acknowledged and appreciated



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# Review of Organisational and Fees structures of ICNDT and Regional Groups/Federations

Mike Farley



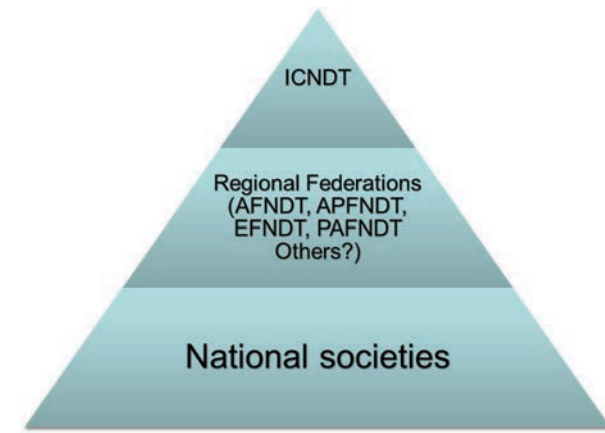
# Summary of Proposal from EFNDT, discussed in ICNDT IEC and ICNDT PGP

## ■ Objectives are:

- a significant change to a hierarchical structure to make the operation of ICNDT and the Regional Organisations/Federations more efficient
- to reduce the voluntary effort currently asked of members by making more use of professional support

## ■ Proposals:

- The Regional Organisations/Federations should be represented on the ICNDT GA and Executive Committee and the PGP should be disbanded
- ICNDT's responsibilities should be extended to include coordination of its own work with that of the Regional Organisations/Federations
  - This requires changes to our constitutions and OPs
- ICNDT's focus to be on global activities and Regional Organisations/Federations focus on regional activities and support of local societies
- Move to a fees model based on size and ability to pay
  - Requires agreement in principle by larger member societies (around 12) that would be asked to pay more, and a revised OP 3.



## Fees structure - Background

- NDT societies whether measured by membership (number of individuals, number of certificate holders or number of corporate members) or financial turnover (perhaps 1000 USD up to tens of millions of USD) vary hugely in size.
- Some operate only locally in their own country whilst others operate around the globe.
- The larger Member societies (including ABENDI, AEND, AIPnD, ASNT, BINDT, ChNDT, CINDE, COFREND, DGZfP, ISNT, JSNDI, KSNT, RSNTTD + others) are quite wealthy and all have survived the economic downturn
- The smallest societies struggle for viability.
- All member societies are established as not-for-profit entities.

## Possible new fee structure – ICNDT and Regions combined

ICNDT and Regional organisations:

Large Societies	13 x <b>4000 euro</b> =	52000
Medium Societies	30 x <b>750 euro</b> =	22500
Small Societies	15 x <b>100 euro</b> =	1500
Total		76,000

Split 40% to ICNDT, 60% to Regional organisations:

ICNDT	30400
Regional organisations	45600

Estimated funds available each year for professional support:

ICNDT	20000
Regional organisations	35000

## Examples of activities that ICNDT and Regions could support given more finance

Activity	Approximate Cost (annual)
Engage specialist to engage with regulatory bodies	5000
Support a specialist(s) to review Wikipedia and update – this is crucial to properly make the community aware of what we do and the importance of NDT	5000
Support specialist(s) to organise and report ICNDT workshops at World and Regional conferences – currently an activity mostly undertaken by the Chairman	5000
Send specialists to countries seeking to establish NDT societies- previously happened when our former chairman regularly worked for the IAEA	10000
Support representatives at IAF, ISO, IIW, etc . We need specialists to represent ICNDTs interests of ICNDT and Regional Groups	10000
Coordinate and edit more ICNDT Guides	5000
Total = 40,000 euro	

+ many more at Regional level !



## Next steps

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- Listen to comments here in Prague
  - ICNDT prepare draft proposals and circulate to Regions and Members
  - If sufficient consensus, draft revised Constitution and Operating Procedures and follow formal rules for approval of constitutional change
  - Target would be to have changes in place for implementation by the new Officers who will come into office in June 2016.
- 
- Acknowledgements to ECNDT President Matthias Purschke for his preparatory work on the ICNDT/Regional Structure



# AFRICAN FEDERATION OF NDT

Feedback Report – Oct 2014

Harold Jansen – Executive secretary

# CONTENTS

- Revised AFNDT Constitution adopted
- Membership
- Quality Manual
- Action Plan
- Regional Development
- Event Calendar



# REVISED AFNDT CONSTITUTION

- Required because:

- Original Constitution required revision – solely focused on regional conferences and range of activities needed to be extended
- Clear objectives and action plans to achieve them
- AFNDT active within ICNDT to benefit the Region.



# REVISED AFNDT CONSTITUTION

## ○ Main Changes:

- General Council of Members – Policy making
- President – Mourad Zergoug & Executive Secretary
- Two members per country viz. Full Member & Associate member
- Liaison Member – Beneficial contribution to AFNDT
- Introduction of annual membership fees – U\$ 200
- Honorary awards system
- Annual Meetings

(Next meeting to coincide with 6<sup>th</sup> AFNDT Conference in Algeria)

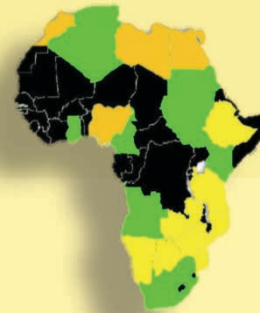


# AFNDT OBJECTIVES

- Promote NDT collaboration, research and development among African countries
- Organize African Regional conferences
- Participate in ICNDT
- Encourage formation of NDT organizations & infrastructure such as National NDT societies, etc.
- Regional and International harmonization of personnel training, qualification and certification



# AFNDT MEMBERSHIP



## Full Members:

(Shown in green on logo)

- Algeria CSC Welding and NDT Research Centre
- Angola CTN National Technology Centre
- Cameroun Hydrac Hydrocarbures Analyses Controles
- Ghana GAEC Ghana Atomic Energy Commission
- Kenya KEBS Kenya Bureau of Standards
- South Africa SAIW Southern African Institute of Welding  
SAINT South African Institute of NDT (Associate)
- Sudan SSNDT Sudan Atomic Energy Commission
- Tunisia Cetime Mechanical and Electrical Industries  
Technical Centre

## Potential Members:

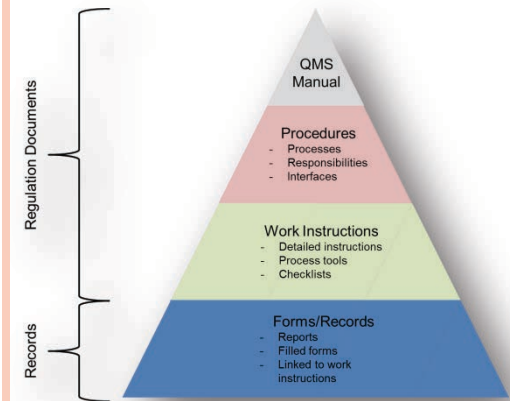
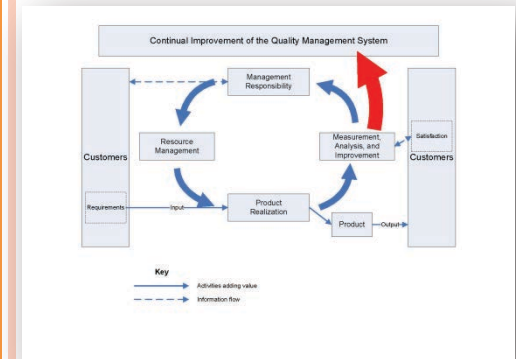
(Shown in yellow on logo)

- Botswana, Egypt, Ethiopia, Libya, Morocco, Mauritius, Mozambique, Namibia, Nigeria, Tanzania, Zimbabwe



# AFNDT QUALITY MANUAL

- 'Corporate' Identity
- ISO 9001 Quality Manual in process
- Additional operational procedures being developed:
  - Code of Ethics
  - Regional Conferences
  - System of Honorary Awards
  - Membership
  - Financial Management





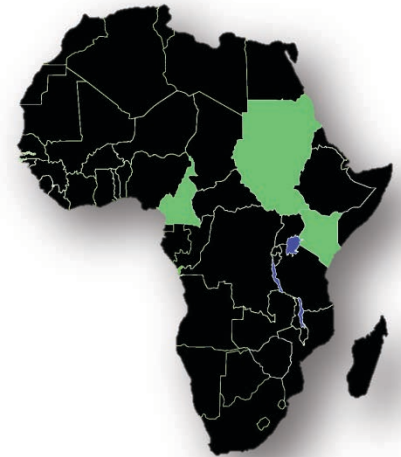
# ACTION PLAN

- Establish and maintain communications protocol
- Encourage the organization of African Regional Conferences
- Participate in ICNDT
  - AFNDT Newsletter,
  - Paper on AFNDT during 19<sup>th</sup> WCNDT 2016 – Munich, Germany,
  - AFNDT Magazine – In Vision
- Identify / promote formation of National NDT societies
- Establish research & development database & promote interaction within region
- Harmonize NDT training, qualification and certification via ICNDT through ISO 9712 and promote formation of ATB's, ExC's, AQB('s) & Regional CB



# REGIONAL DEVELOPMENT

- The International Atomic Energy Agency has been actively advancing NDT in the African Region since 2003.
- ATB's has been established in Cameroon (Hydrac), Kenya (KEBS) and Sudan (SAEC)
- Triangular projects have been initiated to facilitate the formation of Examination Centres in these regions
- Training programs needed for triangular projects commence Jan 2015



# EVENT CALENDAR

## 6<sup>TH</sup> AFNDT REGIONAL CONFERENCE ALGERIA 24 – 26 NOVEMBER 2015



An invitation is extended, on behalf of AFNDT,

to the ICNDT WG 1

to convene a meeting during this occasion should the current proposed venue and date be inconvenient.

7<sup>th</sup> AFNDT Regional Conference - 2017 - Kenya

**Asia Pacific**  
**Regional Report to ICNDT**



Dr. Norikazu Ooka  
President

Asia Pacific Federation for Non Destructive Testing (APFNDT)

# Asia Pacific Federation for Non Destructive Testing Executive

## Committee (AEC) Meeting

5<sup>th</sup> – 6<sup>th</sup> April 2014, JSNDI in Japan

### Member of AEC

- \* Dr. Norikazu Ooka: APFNDT President (JSNDI)
- \* Dr. Jong Po Lee: APFNDT Vice President (KSNT)
- \* Dr. B. Venkatraman: APCNDT Immediate Past President (ISNT)
- \* Mr. Les Dick: General Secretary (AINDT)
- \* Mr. Sajeesh K. Babu: Treasurer (NDTSS)
- \* Mr. Sze Thiam Siong: APCNDT President (NDTSS)
- \* Secretariat of APFNDT (JSNDI)

### Guests and other non-voting attendees:

- \* Dr. Soichi Hirose (President of JSNDI)
- \* Dr. Takamasa Ogata (Vice President of JSNDI)
- \* Dr. Yoshikazu Yokono (Director of JSNDI, General Affairs)
- \* Mr. Hideharu Minegishi (Secretary General of JSNDI)
- \* Mr. Toshihiko Onishi (Deputy Secretary General of JSNDI)
- \* Mr. Shohei Ooka (International Relations of JSNDI)

# Discussion at AEC

## Adoption of Last Minute and Website

### 1. Approval of Minutes of last APCNDT 2013 GA meeting in Mumbai, India

- \* General APFNDT Matters
- \* Admin
- \* Membership
- \* Journal
- \* Newsletters
- \* Communications

### Other Announcement

- \* APFNDT Website ([www.apfndt.org](http://www.apfndt.org))

# Discussion at AEC

## Review of Operating Procedures

### 2. Operating Procedures (OP's)

- \* OP1 - Method of Election –Office Bearers.
- \* OP2 - Financial and Administrative Management
- \* OP3 - Awards and Recognition
- \* OP4 - APCNDT Organisation
- \* OP5 - Communication
- \* OP6 - GA and Board Meetings
- \* OP7 - Working Groups (WG's)
- \* OP8 - Advisory Group (AG)
- \* OP9 - APFNDT Forums
- \* OP10 - APCNDT Conference Sponsorship
- \* OP11 - Regional Development ToR's
- \* OP12 - APFNDT Representation Support

# Discussion at AEC

## ICNDT Regional Representatives

### 3. Legal Incorporation

### 4. Finances

### 5. Review of Strategic Plan

### 6. Reports on Working Groups (WG's)

### 7. Reports on Advisory Group (AG)

### 8. ICNDT Matters (Follow up action)

- \* APFNDT Representatives to ICNDT PGP Committee
  - Dr. Norikazu Ooka (President of APFNDT)
  - Dr. B. Venkatraman (Past president of APFNDT)
- \* APFNDT Representative to ICNDT Certification Executive Committee
  - Dr. Norikazu Ooka (President of APFNDT)



# Discussion at AEC ICNDT Regional Representatives

## 9. Review of Conference Matters (Follow up action)

- \* Report from 14<sup>th</sup> APCNDT and Finances (Mumbai)
- \* Report from 15<sup>th</sup> APCNDT Progress (Singapore)
- \* Report from 16<sup>th</sup> APCNDT Progress (Melbourne 2021)

## 10. Plans for next Board Meeting

APFNDT Board member Meeting—7<sup>th</sup> Oct.,2014 in Prague

## 11. Other General Business

- \* APFNDT Meeting Schedule
- \* APFNDT Promotion
- \* JSNDI Task Group work

## 12. Closure of Meeting

# Asia Pacific Federation for Non Destructive Testing Executive Committee Members and Secretariat



# APFNDT

## Regional News Vol.1

### Regional News of APFNDT

Asia Pacific Federation for Non Destructive Testing



Asia Pacific Federation for Non Destructive Testing

#### CONTENTS:

- I. Message from President
- II. Final report of APCNDT 2013, Mumbai, India
- III. Next APCNDT, 15th Asia Pacific Conference on Non Destructive Testing 2017, Singapore
- IV. APFNDT Executive Committee Meeting, Tokyo
- V. The Secretariat of JSNDI and The Secretariat of APFNDT
- VI. Previous activities from Korean Society for Nondestructive Testing (KSNT)
- VII. Previous activities from Non Destructive Testing Singapore (NDTSS)
- VIII. Conference Schedule of Asia Pacific Region

#### I. Message from President



Dr. Norikazu OOKA  
President of APFNDT

The Asia Pacific Federation for Non Destructive Testing (APFNDT) was established at Mumbai in India in 2013 to meet demands from the providers and users of NDT in the Asia Pacific Region for promoting the application of NDT and for encouraging research and development into NDT techniques. The main activities of APFNDT have therefore covered education, qualification and certification, training, standardization etc. over the whole NDT spectrum.

APFNDT also has a responsibility for the safe use of NDT and has to extend this safety responsibility in a more general sense to the public: for ensuring the integrity of products, assemblies and structures, plants etc. during their service life. This responsibility will make it the goal of NDT certified personnel to strive to improve their skills and expertise through education and training.

The member countries in APFNDT are now facing important circumstances towards the ISO 9712 revised in 2012 and there may be more demands on harmonization of NDT personnel at the international level for qualification and certification based on the requirements of ISO 9712. In this regard APFNDT members should develop strong and friendly

collaboration with other regions and their vitality will be requested to do so.

In addition communication occurs through the conduct of national and international conferences, symposia, seminars, workshops etc.

APFNDT will involve in national and international activities with the aim to promote and develop NDT as a key technology to be used by the industrial sector.

Lastly, I would like to work together with the members and societies in not only the Asia Pacific region but also other regions as a president of APFNDT.

All these APFNDT activities NEED YOUR SUPPORT AND MORE INVOLVEMENT!

#### II. Final report of APCNDT 2013, Mumbai, India

The Asia Pacific Conference on Non-Destructive Testing (APCNDT) is held once in 4 years. The Japanese Society for Non-Destructive Inspection (JSNDI) had the privilege of hosting the first Conference during March, 1976. The Indian Society for Non-Destructive Testing (ISNT) was given the responsibility of hosting the 14th Conference. Incidentally, India had the unique opportunity of hosting the 14th World Conference way back in 1996.

14th APCNDT was held at Mumbai, India between 18th and 22nd November, 2013. The Conference was inaugurated by Dr. Avinash Chander, Scientific Advisor to Ministry of Defence, Govt. of India on 18th November, 2013 which was followed by two memorial lectures:

- 1) Prof. A.K. Rao Memorial Lecture: "Probabilistic Monitoring of Fatigue Cracks in Aircraft Structures" by Prof. Jan Achenbach, Walter P. Murphy & Distinguished McCormick School Professor Emeritus
- 2) Shri V.S. Jain Memorial Lecture: "NDT in Metal Processing Industries for Critical Sectors" by Shri M. Narayana Rao, CMD, MIDHANI

A record number of 246 papers were presented in the form of Invited and Submitted Talks. Three parallel sessions were held to accommodate large number of papers. In addition to this, in order to encourage students and upcoming Scientists, a poster session consisting of 59 papers was held simultaneously. 800 delegates representing 26 countries participated in the proceedings. 65 international companies exhibited their products in a sprawling area of 730 sq. mts. The Conference also saw the participation of leaders from American Society, Chinese Society, Korean Society, Singapore Society, Australian Society and Malaysian Society.

On 21st of November, 2013, the Asia Pacific Federation for Non Destructive Testing (APFNDT) was formed fostering a new era of co-operation between Societies in the Asia Pacific Region. At the closing ceremony, the responsibility of conducting the next Conference (15th APCNDT) was officially handed over to the Office Bearers of Singapore Society (NDTSS).

Overall, the Conference provided an excellent platform for Researchers, Students, Professionals and Manufacturers to interact and derive benefits from the deliberations.

(Reported by Mr. V. Pasi, President of Indian Society for Non-destructive Testing, Board member of Asia Pacific Federation for Non Destructive Testing)

[www.apfndt.org](http://www.apfndt.org)

# Discussion at AEC

## For the future of Asia Pacific Region and the World

Enhancement of cooperation  
with ICNDT and Regional Group

Creating mutual understanding  
among NDT Societies

Build up a structure of partnership

Training the NDT instructor

Exchange the technical information.



# Thank you

*Dr. Norikazu Ooka*  
*President of APFNDT*



# PAN AMERICAN Report

**11<sup>th</sup> ECNDT 2014 – Prague, October 6-10**

### 1. NDT Societies in the region:

- a) *Argentina*: AAEND (Argentine Society of Non-Destructive and Structural Testing )
- b) *Bolivia*: ASBOSENDIC (Bolivian Society of Welding, NDT, Inspection and Corrosion)
- c) *Brazil*: ABENDI (Brazilian Society for Non-Destructive Testing and Inspection)
- d) *Canada*: CINDE (Canadian Institute for NDE)
- e) *Colombia*: ACOSEND (Colombian Society of Welding and NDT)
- f) *Mexico*: IMEND (Mexican Institute of NDT)
- g) *Peru*: APEND (Peruvian Society of NDT)
- h) *United States*: ASNT (American Society for NDT)
- i) *Uruguay*: AENDUR (Uruguay Society of NDT)



### 2. Others NDT Societies:

- a) *Argentina*: ASARENDI (Argentine Society of NDT and Inspection)
- b) *Mexico* : AMEXEND (Mexican Society of NDT)

### 3. Institutes of regions that carries on NDT activities:

- a) *Cuba*: CEADEN (Center for Technological Applications and Nuclear Development)
- b) *Costa Rica*: ITCR (Technological Institute of Costa Rica)
- c) *Ecuador*: ESPOL Polytechnic University

4. Qualification and certification NDT personnel schemes, according to ISO 9712 by certified bodies in conformity to ISO 17024: Argentina, Brazil, Canada, Colombia and Mexico.



### 5. Other activities in Brazil - ABENDI:

#### ***COURSES AND TRAININGS***

In the 1<sup>st</sup> Semester 2014, a number of 224 courses were performed out of a total of 1741 participants. The Abendi has 89 recognized training in NDT and 38 in Quality Management Systems.

#### ***MEMBERSHIP***

Presently, there are 5026 members, being 220 companies.

#### ***STANDARDIZATION***

The Brazilian NDT Standards are developed by Abendi which is certified by ABNT. Since 2004, 116 technical standards of several methods and various applications have been published.

#### ***QUALIFICATION AND CERTIFICATION SCHEMES***

Currently, we have 16,505 professionals with a total of 31,557 certifications, as follows:

N1 : 2.540

N2 : 13.370

N3 : 595

# PAN AMERICAN Report

## 11<sup>th</sup> ECNDT 2014 – Prague, October 6-10



**COMADEM 2015**  
**X CORENDE**

Buenos Aires, Argentina, December 1 to 4, 2015  
Constituyentes Atomic Centre  
National Atomic Energy Commission (CNEA)

Call for papers: The COMADEM 2015 Technical Committee, would like to invite you to submit a 250 to 500 words abstract of a proposed paper in your area of expertise related to the condition monitoring and diagnostic engineering management sectors. Contact: [comunicacion@aaende.org.ar](mailto:comunicacion@aaende.org.ar)

Organizadores:

**AAENDE**  
Asociación Argentina de Ensayos  
No Destructivos y Estructurales

**JPS**  
Argentina  
Tecnología en Confiabilidad

Auspiciantes AAENDE:

**Tenaris** **Y-TEC** **Caefe SA**  
www.aaende.org.ar

Contacto: AAENDE  
Tel. 54 11 67727429 / [comunicacion@aaende.org.ar](mailto:comunicacion@aaende.org.ar)  
[www.aaende.org.ar](http://www.aaende.org.ar)

The poster features a night-time photograph of a city street with light trails from cars and a prominent white monument with a red cross. The text is overlaid on this image. The bottom section of the poster has a dark blue background with white and yellow text and logos.

# PAN AMERICAN Report

## 11<sup>th</sup> ECNDT 2014 – Prague, October 6-10



19th International  
Nondestructive Testing  
and Evaluation of  
Wood Symposium



**SEPTEMBER 22 – 25, 2015**  
RIO DE JANEIRO - BRAZIL

### **OPEN CALL FOR PAPERS, POSTERS AND EXHIBITS**

To submit your oral and poster presentations please check the 'Author Info Abstract Submission' and more information at:  
[abendieventos.org.br/wood\\_symposium/program.php](http://abendieventos.org.br/wood_symposium/program.php)

### **PRE-CONFERENCE WORKSHOP ANNOUNCEMENT**

Prior to the symposium, a full day workshop will be offered on urban tree inspection and standing timber assessment including a tour of the Tijuca National Park (24 km from the Windsor Atlantica Hotel) on September 21, 2015.

Please click on the link and learn about that  
Pre-Conference Workshop:  
[abendieventos.org.br/wood\\_symposium/pre\\_conference.php](http://abendieventos.org.br/wood_symposium/pre_conference.php)

**FOR MORE INFORMATION**  
[eventos@abendi.org.br](mailto:eventos@abendi.org.br)  
+55 11 5586 - 3140



# PAN AMERICAN Report

## 11<sup>th</sup> ECNDT 2014 – Prague, October 6-10



**PONECIAS**                      **EXPOSITIONS**

De acuerdo a los objetivos propuestos para nuestra organización, **ACOSEND** hace un llamado a todos los profesionales del gremio y expertos interesados en presentar sus ponencias y propuestas de conferencias, relacionadas con experiencias que contribuyan a la actualización y a la aplicación de mejores prácticas en la aplicación de técnicas de inspección mediante ensayos no destructivos.

Para los interesados en presentar propuesta de ponencia técnica, enviar el resumen (extensión máxima de 300 palabras) con título de la ponencia, nombre del autor, teléfono, email, ciudad, País y tabla de contenido a los correos: [coordinador@viii-congresoacosend.org](mailto:coordinador@viii-congresoacosend.org) o [coordinador@vicopaendcolombia.org](mailto:coordinador@vicopaendcolombia.org) con plazo del 31 de julio de 2015.

**PROYECTOS COLOMBIANOS PARA LOS PROXIMOS 4 AÑOS**

- Construcción de 3 puertos marítimos en la costa pacífica y 4 en el Caribe, un puerto especializado en petróleo.
- Ampliación de 4 aeropuertos a categoría internacional.
- Construcción de 12000 km de vías de cuarta generación.
- Actualización de pozos petroleros.
- La primera plataforma Off-shore de Colombia en el Atlántico.
- 26 nuevos bloques petroleros.

**COLOMBIAN PROJECTS FOR THE NEXT 4 YEARS**

- Construction of 3 ports on the Pacific Coast and 4 in the Caribbean, and a specialized oil port.
- Large 4 airports to international status.
- Construction of 12,000 km of roads of fourth generation.
- Update of oil wells.
- The first offshore platform in the Colombian Atlantic Sea.
- 26 new oil blocks.



## VI COPAEND

CONFERENCIA PANAMERICANA DE ENSAYOS NO DESTRUCTIVOS

## VIII CONGRESO DE SOLDADURA

CARTAGENA - COLOMBIA - 12 AL 14 DE AGOSTO DEL 2015  
CENTRO DE CONVENCIONES LAS AMÉRICAS

*El evento que reúne a los expertos en NDT y Soldadura en Colombia*

*The event brings together experts NDT and Welding in Colombia*

Mayor información:  
[www.Vicopaend.org](http://www.Vicopaend.org)  
[www.Viii-congresoacosend.org](http://www.Viii-congresoacosend.org)  
[www.acosend.org](http://www.acosend.org)

Tel.: (57+1) 268 8034 • 400 8193 • 313 877 3120  
 Carrera 25 No. 41 - 08, Barrio la Soledad  
 Bogotá D.C., Colombia

Organiza



ACOSEND

Certificación hecha con participación y responsabilidad social



AMERICAN ALLIANCE FOR NDT

# PAN AMERICAN Report

## 11<sup>th</sup> ECNDT 2014 – Prague, October 6-10



### VI COPAEND

#### PRESENTACIÓN

El esfuerzo integracionista de los países latinoamericanos en el tema de los ensayos no destructivos nuevamente tiene su día máximo, en la VI Conferencia panamericana de ensayos no destructivos a desarrollarse en la ciudad de Cartagena de Indias, Colombia del 12 al 14 de agosto de 2015, esta vez, organizada por la Asociación Colombiana de Soldadura y ensayos no destructivos **ACOSEND**.

Los países miembros de la **PANNDT**, acogen la Conferencia como el lugar para enriquecer su conocimiento en tecnologías, desarrollos y aplicaciones, favoreciéndose del intercambio de conocimientos en un ambiente de integración global.

#### TEMA RIO

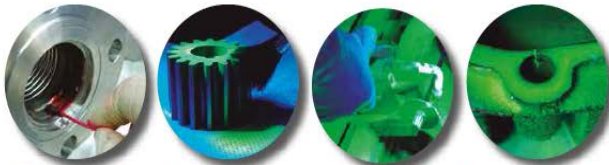
1. Nuevas técnicas de inspección.
2. Desarrollos en esquemas de certificación de personal.
3. Equipos para el desarrollo de inspecciones no destructivas.
4. Procedimientos de ensayos no destructivos.
5. Aplicaciones de END en la industria.

### VIII CONGRESO DE SOLDADURA

La **ACOSEND** se enorgullece en presentar el VIII congreso, donde se darán a conocer los avances más recientes en el área de la soldadura. Espacio para el encuentro de expertos, para fomentar la cooperación nacional e internacional, el desarrollo científico y tecnológico del sector en Colombia.

#### NÚCLEOS TEMÁTICOS

- Innovación en procesos de soldadura.
- Criterios de aceptación de los códigos de soldadura.
- Actualización de los códigos de soldadura, oleoductos y recipientes a presión, entre otros temas de interés.



### VI COPAEND

#### INTRODUCTION

From an integrationist effort the Latin-American countries, once again reunite around the topic of nondestructive testing in the VI panamerican conference of nondestructive testing COPAEND, which will take place in Cartagena city - Colombia from the 12 to 14 of august of 2015, hosted by the Colombian association of welding and nondestructive testing - **ACOSEND**.

All the countries grouped in the **PANNDT** receive the conference as the place to enrich their knowledge in technology, development and applications, gaining in the exchange of knowledge in a global environment.

#### SUBJECTS

1. New techniques in inspection.
2. Developments in personal certification.
3. Developments for new equipment for nondestructive testing.
4. Procedures in nondestructive testing.
5. Enforcement of the nondestructive testing in the industry.

### VIII WELDING CONGRESS

The **ACOSEND** takes pride presenting the VIII congress, which will reunite the latest advancements in the welding technology, with the objective of favoring the exchange of knowledge, and cooperation for the scientific and technological development of the sector in Colombia.

#### TOPICS

- Innovation in welding process.
- Acceptance criteria in the welding codes.
- Update welding codes, pipelines and pressure vessels, among other topics.

INSCRIPCIONES	TARIFA COST	30-MAY/15 5% DCTO	30-MAR/15 10% DCTO	30-ENE/15 20% DCTO	PATROCINIOS SPONSORS	TARIFA COST	30-MAY/15 5% DCTO	30-MAR/15 10% DCTO	30-ENE/15 20% DCTO
PARA PARTICIPANTES FOR PARTICIPANTS	USD 500	475	430	400	PLATINUM SPONSOR PATROCINADOR PLATINO	USD 6.300	6.075	5.650	5.300
PARA SOCIOS ACOSEND FOR PARTNERS ACOSEND	USD 330	333	315	280	GOLD SPONSOR PATROCINADOR ORO	USD 6.300	6.175	5.850	5.200
PARA ESTUDIANTES FOR STUDENTS	USD 200	190	180	160	SILVER SPONSOR PATROCINADOR PLATA	USD 4.500	4.275	4.050	3.800

**Beneficios incluidos:** Asistencia a Conferencia del Congreso de Ensayos No Destructivos END y Soldadura, Almuerzo, Refresco, edición de café, material académico, traducción simultánea, boletín de congreso, Certificado de asistencia.

**Beneficios incluidos:** Asistencia a los congresos entre congresos, NOTAS de trabajo, lunch, refreshment, coffee station, academic material, simultaneous translation, congress lectures, Certificate of attendance.

PATROCINIO	BENEFICIOS INCLUIDOS
PATROCINADOR PLATINO	10 Inscripciones al Congreso; 150 Entradas a muestra comercial; 1 Pabellón de Coctel de Bienvenida; 1 Stand doble "A" (6m x2m); 2 Puestos en salón del Congreso; 1 Logo como patrocinador en portal web; 1 Logo impreso en material; 1 Inserto Publicitario; 5 Señalizadores o valas.
PATROCINADOR ORO	8 Inscripciones al Congreso; 100 Entradas a muestra comercial; 1 Pabellón de Almuerzo; 1 Stand doble (6m x2m); 2 Puestos en salón del Congreso; 1 Logo como patrocinador; 1 Logo impreso en material; 1 Inserto Publicitario; 2 Señalizadores o valas.
PATROCINADOR PLATA	6 Inscripciones al Congreso; 50 Entradas a muestra comercial; 1 Pabellón de Refresco; 1 Stand "B" (6m x2m); 1 Puesto en salón del Congreso; 1 Logo como patrocinador; 1 Logo impreso en material; 1 Inserto Publicitario; 1 Señalizador o vala.
EXPOSITOR STAND TPO A - 6x2m	4 Inscripciones al Congreso; 50 Entradas a muestra comercial; 1 Stand doble "A" (6m x2m); 1 Puesto en salón del Congreso.
EXPOSITOR STAND TPO B - 3x2m	2 Inscripciones al Congreso; 50 Entradas a muestra comercial; 1 Stand "B" (6m x2m)
PENDÓN INSTITUCIONAL	1 Inscripción al Congreso; 1 Puesto en el salón o espacios asignados; 1 Inserto publicitario.

SPONSOR	INCLUDED BENEFITS
PLATINUM SPONSOR	10 congress inscription; 150 trade shows entrance; welcome cocktail sponsor; 1 stand (6m x2m); 2 fence in the congress hall; logo as sponsor in the web portal; printed logo in all the material of the congress; 1 advertising insert; 5 banners or fences.
GOLD SPONSOR	8 congress inscription; 100 trade shows entrance; lunch sponsor; 1 stand (6m x2m); 2 fence in the congress hall; printed logo in all the material of the congress; 1 advertising insert; 2 banners or fences.
SILVER SPONSOR	6 congress inscription; 50 trade shows entrance; refreshment sponsor; 1 stand (6m x2m); 1 fence in the congress hall; printed logo in all the material of the congress; 1 advertising insert; 1 banner or fence.
EXHIBITOR STAND TPO A - 6x2m	4 congress inscription; 50 trade shows entrance; 1 stand (6m x2m); 1 fence in the congress hall.
EXPOSITOR STAND TPO B - 3x2m	2 congress inscription; 50 trade shows entrance; 1 stand (6m x2m); 1 fence in the congress hall.
PENDÓN INSTITUCIONAL	1 congress inscription; 1 advertising insert; 1 fence in the congress hall.



Oportunidades para la Innovación y el Desarrollo del Continente

## EFNDT Regional Report (Summary)

There are currently 32 Full members; 7 Associate members.

Since the last GA there have been 4 presence meetings and 4 Internet meetings, under the Presidency of Dr Matthias Purschke.

There have also been meetings of the Certification Executive Committee, chaired by Mr Fallouey, and the Aerospace and Rail Forums, as well as some of the active working groups.

OP1: Election of Officers has been revised to include a BoD recommendation with the aim of ensuring turnover of fresh thinking whilst maintaining continuity.

*The Board of Directors, including President, Vice-President (all together 10 persons), and an Auditor, are elected by the EFNDT General Assembly for three years, with possibility of re-election on two consecutive occasions for a maximum continuous duration of nine years.*

The following notes have been added:

*Important Note 1: Even though the President, Vice President and Directors are entitled to put themselves forward for two re-elections, the EFNDT Board of Directors feel that a self-imposed limit of one re-election would allow for refreshment and new thinking.*

*Important Note 2: Even though a Full Member is entitled to nominate a candidate for Vice President, the EFNDT Board of Directors feel that when the President's post becomes vacant, the current Vice President should be elected to the post of President unopposed which would provide continuity of strategic thinking and development.*

The liaison between EFNDT and ASNT was progressing well.

A strategic review had been held, resulting in the proposal for restructuring the international scene.

The ECEC was in the process of updating the MRA Schedule 2 and was also considering its strategy with regard to certification in Europe. Mr Fallouey elaborated.

The next European Conference would be held in Gothenburg, Sweden, in 2018.

E Romero  
October 2014