



*The World Organisation for NDT*

# Annual Report 2016

ICNDT is formally registered as a legal association in Vienna in accordance with the Austrian Corporations Act and has a bank account to conduct financial business transactions.

The constitution meets the requirements of the Austrian Corporations Act.

As an incorporated body, ICNDT is required to submit its Annual Report and audited Financial Report to the relevant Austrian authorities.

**This is the Annual Report for 2016**

## Meetings and Appointments

ICNDT Executive Committee (IEC) meetings were held six times during 2016, the first taking place on 29 January, the second on 4 March, the third on 12 June immediately prior to the 19<sup>th</sup> World Conference on NDT in Munich, the fourth on 19 July and the other two on 14 September and 24 November 2016. The first three meetings were chaired by Dr Mike Farley and the remainder by the new Chairman, Sajeesh K Babu, who was elected at the 2nd General Assembly meeting in Munich. All meetings offered the facility for members to join via web conferencing. The Policy and General Purposes Committee (PGPC) met on 12 June 2016, prior to the 19<sup>th</sup> World Conference on NDT, chaired by Mr Douglas Marshall, and again on 28 November alongside the 7<sup>th</sup> African Conference on NDT held in Oran, Algeria, this time chaired by Dr Farley, as Chair of the PGP Committee. These meetings played an important role for the future of ICNDT, including the ongoing work to re-structure the organisation of ICNDT and the regional groups, updating the Constitution and operating procedures as well as continuous updates on progress against the Strategic Plan. The meetings were fruitful and significant progress has been made.

Working Groups 1, 2, 3 and 4 met in Munich in June during the World Conference and WG6 met in Paris in October.

Although there were no meetings of the ICNDT CEC (Certification Executive Committee), led by Mr Harold Jansen (Chairman) and Tony Wooldridge (Secretary), work continued, mostly conducted electronically. Dr Wooldridge reported progress to most of the IEC Meetings.

Mike Farley as ICNDT Chairman participated in the ASNT Spring Conference and the Danish NDT Society conference, and as Chairman of the PGP the BINDT conference, the Polish NDT Society conference and the ASNT Fall 75<sup>th</sup> Annual Conference. Sajeesh Babu as ICNDT chairman visited Korea and participated in KWATER conference to promote 'Advanced NDT methods and the Role of ICNDT'. During the visit he also met with the working group on the 2020 World Conference and visited the conference venue, COEX, in Seoul. The Chairman also participated in the ASNT 75<sup>th</sup> Anniversary celebration in Long Beach and opened the ICNDT/ASNT International forum.

Highlight of 2016 was the 19<sup>th</sup> World Conference on Non-Destructive Testing, held in Munich from 13-17 June 2016. This event exceeded all expectations in terms of the quality and quantity of the technical programme, the size and coverage of the exhibition, the number of delegates and participants and the social programme. The scientific programme consisted of 660 oral presentations, 71 short presentations, two interactive presentations and 102 poster presentations.

The ICNDT is very grateful indeed to the German Society for NDT (DGZfP) and the WCNDT President, Dr Matthias Purschke, for the generous donation made to ICNDT following this very successful Conference (see Balance Sheet on page 7).

A total of 2060 delegates registered for the full conference, representing 66 countries. Additionally, 2091 part-time attendees participated. The exhibit hall was full to capacity, with 273 exhibitors displaying the latest equipment and technologies.

The activities of the International Committee of NDT (ICNDT) included various committee meetings and workshops to coincide with the conference, including ICNDT Working Group 1, ICNDT Executive and PGP Committees, two ICNDT General Assemblies (each with more than 40 member societies represented) and workshops on the Use of Social Media by NDT Societies and Certification Bodies, NDT and CM Training and Certification, and E-learning for NDT and CM Training. At the second General Assembly, Mr Sajeesh K Babu was elected ICNDT Chair for the period 2016-2020. The following officers were elected for the same period:

<b>ICNDT Chair</b>	Mr Sajeesh K Babu (Singapore)
<b>ICNDT Past Chair</b>	Dr Mike Farley (UK)
<b>ICNDT General Secretary</b>	Mr David Gilbert (UK)
<b>World Conference President</b>	Prof Younho Cho (Korea)
<b>NDT Society to provide secretariat</b>	The British Institute for NDT (UK)
<b>Treasurer</b>	Mr Gerhard Aufricht (Austria)
<b>Elected members</b>	Ms Sharon Bond (Canada)
	Mr Les Dick (New Zealand)
<b>Auditors</b>	Mr Douglas J. Marshall (Canada) and Dr Werner Schmid (Switzerland)
<b>Chair WG 1 – Certification</b>	Mr Alexander Mullin (Russia)
<b>Chair WG 2 – Membership</b>	Mr Joao Conte (Brazil)
<b>Chair WG 3 – Research</b>	Prof Younho Cho (Korea)
<b>Chair WG 4 – Communications</b>	Mr David Gilbert (UK)
<b>Chair WG 5 – Radiation Protection</b>	Dr Matthias Purschke (Germany)
<b>Co-Chairs WG 6 – Condition Monitoring</b>	Mr Terry Clausing (USA) and Prof Len Gelman (UK)
<b>Chair WG 7 - Administration</b>	Dr Mike Farley (UK)

The following Regional Group Representatives were appointed:

<b>Africa</b>	Mr Harold Jansen
	Dr Mourad Zergoug
<b>Asia-Pacific</b>	Dr Norikazu Ooka
	Mr Jong Poh Lee
<b>Europe</b>	Dr Matthias Purschke
	Prof Peter Trampus
<b>Pan America</b>	Mr César Belinco
	Dr Amy Bereson

Awards presented at the 19th WCNDT

ICNDT AWARD	WINNER	RUNNER(S)-UP
<b>ROENTGEN AWARD</b> For major contribution to science and technology of NDT	<b>Prof Tony Dunhill</b>	NPO ENERGO MASH
<b>HAVERCROFT AWARD</b> For a major contribution to NDT Education, Training and Certification	<b>Mr Roger Lyon</b>	Anatoly Gourvich
<b>SOKOLOV AWARD</b> For a major contribution to NDT Research	<b>Prof Hermann Wüstenberg</b>	Bruce Drinkwater and Paul Wilcox Valentin Kaloshin
<b>YOUNG ACHIEVER AWARD</b> For achievement of young people in NDT	<b>Dr Alexander Machikhin</b>	Katy Milne
<b>PAWLOWSKI AWARD</b> For a major contribution to the promotion of NDT Internationally	<b>Dr Mike Farley</b>	Vjera Krstelj Makoto Ochiai Vasily Sukhorukov

The following were appointed Honorary Members:

David Gilbert - for his support to ICNDT and EFNDT

Vjera Krstelj - for her services to the Croatia NDT Society, EFNDT and ICNDT for more than 35 years

Dr Matthias Purschke - for services to EFNDT and ICNDT and his Presidency of the 19th WCNDT

Sharon Bond - for her services to ICNDT since 2000 (including the 16<sup>th</sup> WCNDT ) and her work with ISO TC135 SC7

Joao Conte - Chairman of the ICNDT Membership Committee and a leader in the Pan American Committee

Sajeesh Kumar Babu - General Secretary of ICNDT (2012-2016) and active member of the Asia Pacific Federation

Alexander Mullin - Chairman of ICNDT WG1 Qualification and Certification.

Following passionate proposals from the USA and Argentina, Argentina won the bid to host the 21<sup>st</sup> WCNDT in 2024.

On a sad note, it is with deep regret that ICNDT records the death of Tony Sonneveld, Honorary Member of ICNDT, who passed away 13 November 2016. Tony was appointed Honorary Member at the World Conference in Shanghai in 2008 and at the same event was presented with the Pawlowski Award for major contributions to the promotion of NDT internationally.

## Strategic Planning and Organisation

During 2016 the primary focuses of the IEC were on delivering the actions of the strategic plan and achieving progress with the reorganisation proposal (see 2015 Annual Report). On-going status reviews in each of these areas were held at each IEC meeting.

### Situation Update

ICNDT successfully launched the Multilateral Recognition Agreement, Personnel Certification Body Assessment Scheme and Examination Question Bank in October 2013. ICEC is managed by professional secretariat, currently provided by Mr Tony Wooldridge, who took over from Dr Robin Shipp in June 2016. ICNDT wishes to express its thanks to Robin and also to the retiring Chairman, Patrick Fallouey, who has made a major contribution to the development of personnel certification in NDT over many

years. Harold Jansen is acknowledged for taking on the role of Vice-Chairman and acting on behalf of the Chairman when he was indisposed. Harold was elected to take over the Chairmanship at the World Conference in June 2016.

The ICNDT Guide on Qualification and Certification of NDT personnel was updated and the 2016 edition was published at WCNDT 2016 in Munich. The guide contains specific appendices on the MRA, PCBA, EQB, ASME recognition and PCBs offering ISO 9712 Certification.

A new Guide: 'ICNDT Guide on Qualification and Certification of Condition Monitoring personnel' was published in time for the World Conference in June 2016. The prime purpose of this Guide, which was prepared under the auspices of the ICNDT Working Group 6, is to promote best practice in the qualification and certification of CM personnel according to the International Standard ISO 18436: Condition monitoring and diagnostics of machines – Requirements for qualification and assessment of personnel.

A new Operating Procedure (OP25: International Forums) has been approved that describes how ICNDT Forums may be organised at Regional and national conferences, with the objective to provide a place for interaction and knowledge sharing between NDT societies in Full and Associate Membership of ICNDT. Representatives of NDT Societies attending are encouraged to give presentations on their activities and needs.

Another new Operating Procedure (OP26: International Specialist Groups - ISGs) has been approved that explains how Specialist Groups may be set up and run under the auspices of ICNDT. The Groups are intended for those topics, either technology areas or application areas, where international liaison is beneficial/necessary. The following Groups are currently under development (host society in brackets):

- Full matrix capture (BINDT)
- Terahertz imaging (BINDT)
- Microwave NDT (ASNT)
- Magnetic Memory Method (RSSNDT)
- NDT of Art and Cultural Heritage (BINDT)
- NDT Reliability (DGZfP)
- Non-linear UT (KSNT)
- Guided Wave UT (KSNT)

ISGs will be open to all members of NDT Societies in ICNDT.

Working Group 1: 'Qualification & Certification' continued to be very active in 2016 under the Chairmanship of Alexander Mullin. Two new members joined during the year, representing Denmark and Iran, making the total 21 and it was decided to limit the membership for the time being. Work items on the Strategic/Action Plan were actively pursued and several new publications had either been released or were under development, including a directory of personnel certification bodies, a guidance note on assistance for developing countries seeking to establish certification schemes (Appendix to the ICNDT Guide), recommendations for appropriate application of EN ISO 9712:2012 (approved by the IEC) and a report on the 'Process of Conformity Assessment of PCBs conducting qualification and certification of personnel when 'introducing new NDT methods and techniques' (also approved by the IEC). A successful meeting was held in Munich prior to the WCNDT and the next one will take place in November 2017 alongside the Asia-Pacific Conference on NDT in Singapore.

Working Group 3: 'Education & Research' continued its activities under the Chairmanship of Dr Manfred Johannes until his retirement in June 2016. ICNDT is grateful to Manfred for his efforts in revitalising the Group since its reconstitution in 2014. Professor Younho Cho has taken over the Chairmanship of the Group and looks forward to continuing with the activities outlined in Action Plan 4 of the Strategic Plan, including promotion of the research register on the website, review and promotion of the research and education guides, education & training directory development, specialist international groups (see above) and links to other bodies such as WFNDEC and Academia NDT International.

Working Group 6: 'Condition Monitoring' is developing under the leadership of Co-Chairs Terry Clausing and Len Gelman. A meeting was held at the ISCM (International Society for Condition Monitoring) conference in Paris in October 2016 and work continues in the development of goals for the Group and in strengthening the liaisons between NDT, CM and SHM.

## Review of organisation of ICNDT and the Regional Groups

Further to the initial proposal received from EFNDT in July 2014, a joint presentation was held to GA in Prague in October 2014. The changes to ICNDT organisation were approved in principle.

The details of the reorganisation were developed in consultation with the regions and tabled in the PGP at Cartagena in 2015. In the absence of full consensus, the PGP requested a Task Group to continue the development. The task group was given an objective to reach an agreement in Munich 2016 and to implement changes thereafter.

The Task Group was set up with Membership: Farley (then ICNDT Chairman), Babu (then ICNDT Gen Sec), Aufricht (ICNDT Treasurer), Conte (ICNDT Membership Committee), Nori Ooka (APFNDT), Trampus (EFNDT), Bereson (PANNDT), Jansen (AFNDT). Sec: Gilbert.

The Task Group met in October 2015, January, March and October 2016 and details of the proposed ICNDT reorganisation were developed in consultation with the Regions/Federations. Version 10 of the presentation reflecting the recommendations were presented to the PGP committee and it approved them unanimously on 12/06/2016. A motion was put to the General Assembly in Munich (39<sup>th</sup> meeting - 16/06/2016) to approve the proposal, version 10, and this was carried by a significant majority.

### Outline of proposals

The Regional Organisations/Federations will be represented on the ICNDT GA and Executive Committee and the PGP will be replaced by an Advisory Committee.

ICNDT's responsibilities will be extended to include coordination of its own work with that of the Regional Organisations/Federations. ICNDT's focus will be on global activities and the Regional Organisations'/Federations' focus will be on regional activities and support of local societies.

The Regional Federations will be represented on the ICNDT General Assembly alongside the member societies, with two voting representatives nominated by each Regional Group/Federation (one being nominated to the IEC and both to the IAC, see below). By this means the Regions will be fully involved in the decision making and executive actions of ICNDT and ICNDT will have direct communication links to the Regions.

The ICNDT Executive Committee (IEC) will be made up of a Chairman, General Secretary, Treasurer, Regional Representatives: one representative of each Region (currently four), the Past-Chairman (ex-officio) and the President of the next World Conference (nominated by the WCNDT organiser). The Chairs of ICNDT Committees and Working Groups will be non-voting members.

Note: There will no longer be a direct election of two additional people to the IEC.

An Advisory Committee (IAC) will replace the current Policy and General Purposes Committee. It will provide advice to the IEC and WGs and will meet annually in a different region each time over the four-year cycle.

The membership of the IAC will be:

- Members of the IEC as mentioned above (voting)
- One additional member from each Region as nominated to the General Assembly (voting)
- ICNDT Honorary members (non-voting).

This committee will be chaired by the Chairman of ICNDT (alternate: the Past-Chairman).

### New fee structure

The fee structure proposed was suggested to the Task Group by the EFNDT Board and has been thoroughly reviewed by the Region/Federation Boards. V10 has taken account of comments received (latest comments April 2016). The proposal is basically as follows:

- Fees will be based on the size of the Member society. Members will be categorised as A, B, C, D or E and will pay the corresponding fee. All categories of Member will continue to have a vote at the General Assembly of ICNDT and in their Regional Groups.
- Each Society will choose its category, taking account of its sustainable Gross Annual Income and its own degree of regional and international engagement. (Gross Annual Income takes account of all NDT related activities of the member organisation including its divisions and subsidiaries).
- The single fee will replace separate fees for ICNDT and the Regions. Members that wish to participate in more than one Region will pay additional Regional components (60% of the full fee for each additional region).
- Associate Members will pay 75% of the full fee.

### Next steps

The Task Group was invited to continue in existence to prepare the revised constitution and Operating Procedures. The plan is to implement the changes at the next meeting of the General Assembly in 2018 (at the 12th ECNDT in Gothenburg, Sweden) and to introduce the new fees structure from Jan 2019. (Note: four Cat A societies ABENDI, ASNT, BINDT and DGZiP have voluntarily agreed to pay the new fees from 2018). Further Task Group meetings were held on 14th Sept and 28th October and good progress made.

The proposed revised Constitution (V4) and OPs 3 (Recognition of regional groups) , 8 (Meetings of ICNDT and IAC) ,12 (Annual Report and accounts), and 15 (Working groups and committees) were approved at the PGP meeting in Oran and are ready after editorial check to be submitted to the GA for approval. OP 12 requires a minor modification to permit the AGM to be in the first half of February. OP 2 Financial Management requires further discussion around whether fees are to be collected by the regions or by ICNDT, there being opposing views on this. Also it was suggested that it may be best to separate the section on fees into a separate OP. Updated OPs on Membership are being developed. New OPs are needed for Complaints and the World Conference Committee.



## MRA and PCB Registration

### Multilateral Recognition Agreement (OP 19)

- There are currently 40 signatories to Schedule 1 of the MRA, with the addition in 2016 of Denmark and Kazakhstan.
- Two additional Personnel Certification Bodies – SAIW Certification (South Africa) and Sector CERT (Germany) – were registered under Schedule 2 of the MRA during 2016, bringing the total number of registrants to 12.
- Certification Bodies from 6 countries have recently expressed an interest in becoming registered for MRA Schedule 2. These are: Kazakhstan NDT and Technical Diagnostic Association, Denmark (FORCE Technology), Sri Lanka (CBNDT), Chinese Taiwan, the Malaysian Society for NDT and Serbia (Zavod Cert Pers). They have all been sent details of the application process, and we await their submissions.
- Six of the original registrants of MRA Schedule 2 are now within 6 months of their 3 year renewal date and have been invited to prepare renewal applications. All six have confirmed their intention to renew.
- The CEC Chair (Harold Jansen) has proposed the development of a standardised process for assessing MRA Schedule 2 applications. This is intended to assist with the number of requests for registration anticipated in coming months; both new registrations and renewal applications.
- A Work Instruction to support Operating Procedure OP19 has been produced and this has proved to be very useful.

### Personnel Certification Body Compliance Assessment (OP 20)

- There were no applications for PCB Conformity Assessment in 2016.

### Register of External Organisations with an Interest in NDT

Issue 1-4 of this register (dated 28.09.16) has been sent to the BINDT Secretariat to use for mailing of ICNDT documents. A covering letter has been prepared for circulation of the two recent ICNDT Guides to Qualification and Certification of Personnel for NDT and for Condition Monitoring.

### Reports on Workshops held at WCNDT in Munich

The CEC Secretary has finalised reports on the three workshops (Training and Certification, e-learning, Social Media) held in Munich. The reports and associated presentations are now with the BINDT Secretariat for loading to the ICNDT website.

## Membership

A total of 42 members had paid their fees by the end of the year, thereby retaining their voting status.

The Membership Committee is chaired by Mr João Conte (ABENDI) and members in the committee are Mr John Macarrone (AINDT), Ms Sharon Bond (CINDE), Dr Alexander Mullin (RSNTTD), Mr Emilio Romero (AEND) and Mr Shohei Ooka (JSNDI).

The Membership Committee is involved with the following activities:

- Support for the creation of the NDT and Welding Society of Chile (ACHISEND).
- Review and approval of the application of AMEXENDE (Mexico) to become an Associate Member of ICNDT.
- Agreement with Societies from Iran: IWNT (Iranian Society for NDT and Welding) as Associate Member, and IRNDT (Iranian Society for Non-Destructive Testing) as Full Member. A representative sits on WG 1.
- Situation in Egypt: 2 Societies have expressed interest in becoming members of ICNDT. In line with the overall policy of accepting the legally registered body that represents most comprehensively the NDT community in the country in question, the Membership Committee favoured the Egyptian Society for NDT as the full member. Both organisations have been encouraged to work together to find a solution and reach agreement as to which one should join ICNDT as the Full Member; the other will be free to join as Associate Member.
- Contacts with institutions in Latin America who develop NDT activities in countries that do not have national NDT Societies: ESPOL/Ecuador, CEADEN/Cuba and ITCR /Costa Rica.
- The PGP meeting in Algeria had helped the African Federation of NDT to support its members and potential members. It was recommended that COMEND (Morocco) should apply for full membership whilst Libya and Algeria should apply to join as Associate Members.
- A membership application form had been issued to Azerbaijan.

## Website/Journal/Publications

The ICNDT Secretariat has continued to provide updates to members through the website and ICNDT Journal (3 issues published each year), which have been consistently of a high standard thanks to the efforts of Sharon Bond (CINDE) and Corinne Mackle, Zoe White and David Gilbert from the Publishing Department of the British Institute of Non-Destructive Testing.

Two new ICNDT Guides were released at the WCNDT 2016 in Munich:

- The ICNDT Guide on Qualification and Certification of NDT personnel was updated and a 2016 edition published.
- A new Guide: 'ICNDT Guide on Qualification and Certification of Condition Monitoring personnel' was also published.

The German Society, DGZfP, has continued to provide the platform for the ICNDT website. The Facebook page is becoming increasingly popular.

A meeting of the Communications Working Group was held during the ASNT Fall Conference in Long Beach and thanks go to Group members S Bond, S Cullman, G Liming and S Ooka.

## Finance

The audited financial report for 2016 is presented below and the budget for 2017 shown overleaf.

## Acknowledgements

ICNDT wishes to thank its Executive Committee members for their efforts during 2016 and acknowledges the support of the Secretariat provided by the British Institute of NDT.

*Sajeesh K Babu, Chairman, ICNDT*

<b>Balance at 31.12.2016</b>		
	<b>2016 €</b>	<b>2016 €</b>
	<b>Income</b>	<b>Expenditure</b>
Opening balance (carryover from 2015) Nr: 290-317-995/00	85,748.25	
Donation from Austrian Chamber of Commerce	500.00	
Donation from DGZfP (19th WCNDT)	45,000.00	
Membership fees (including pre-payments)*	15,550.00	
Bank account Nr: 290-317-995/01 – interest	9.36	
PCB CA service (OP20)	-	
MRA Service (OP19)	900.00	
EQB Product: Application fees (OP23)	-	
EQB update fees (OP23)	-	
Bank account 'fees', cost		198.58
Meeting expenses/GoTo meetings		1708.45
Bank account Nr.: 290-317-99501 cost		251.50
Printing costs		6643.41
Office costs, insurance		2235.51
PCB CA service costs OP20: administration		383.40
MRA/PCB OP19		5360.00
EQB Service costs: administration		3732.80
Professional Service		11,124.31
Supplies (ICNDT badges, flags, etc)		2192.49
Miscellaneous (shipping, etc)		534.10
<b>Totals</b>	<b>147,707.61</b>	<b>34,364.55</b>
<b>Allocation to reserves</b>	<b>113,343.06</b>	

\*Note: 42 members paid

**Gerhard Aufricht, Treasurer, 2017/01/02, Vienna**

<b>Financial Report - Budget 2017</b>		
	<b>Income (€)</b>	<b>Expenditure (€)</b>
Opening balance (carryover from 2016)	<b>113,343.06</b>	
Donation from Austrian Chamber of Commerce	<b>500.00</b>	
Membership fees (46 at €300/€100 less prepayments)	<b>14,000.00</b>	
PCB CA service	<b>18,320.00</b>	
MRA service	<b>6050.00</b>	
EQB Product – <i>purchase fees</i>	<b>7500.00</b>	
EQB update fees	<b>3750.00</b>	
Bank account <i>Nr: 290-317-995/01 – interest</i>	<b>10.00</b>	
Meeting expenses/GoToMeetings		<b>3000.00</b>
Bank account cost <i>Nr: 290-317-995/01</i>		<b>50.00</b>
Bank expenditures – <i>incoming fees</i>		<b>200.00</b>
Printing cost <i>(NDT Guideline, ICNDT Journal, etc)</i>		<b>2500.00</b>
Office cost		<b>2300.00</b>
PCB CA service cost ( <i>system administration, insurance</i> )		<b>2920.00</b>
MRA/PCB service cost ( <i>auditor payment</i> )		<b>15,400.00</b>
MRA application/renewal costs		<b>6000.00</b>
EQB service cost ( <i>administration and overheads, contingencies</i> )		<b>5000.00</b>
Professional service		<b>11,000.00</b>
Preparation of ICNDT Monographs		<b>2000.00</b>
Supplies ( <i>ICNDT badges, flags, etc</i> )		<b>2000.00</b>
Miscellaneous <i>(shipping, conference calls)</i>		<b>500.00</b>
<b>Total</b>	<b>163,473.06</b>	<b>52,870.00</b>
<b>Allocation to reserves</b>	<b>110,603.06</b>	

Ing G Aufricht (Treasurer), 2017/01/04, Vienna

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