



The World Organisation for NDT

Annual Report 2018

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 2018

Meetings and Appointments

ICNDT Executive Committee (IEC) meetings were held six times during 2018, the first physical meeting was held on 26 January 2018 in Glasgow, alongside the BINDT Scottish Branch events, with the physical presence of the Chairman. The second via GoToMeeting on 23 March 2018, the third on 24 May, the fourth on 12 June alongside the European Conference in Gothenburg, the fifth on 9 August and the sixth on 28 October in conjunction with the ASNT Annual conference. All meetings were chaired by Sajeesh K Babu and offered the facility for members to join via web conferencing.

At the Annual Meeting of ICNDT on 26 January 2018, the Annual Report and accounts for 2017 were approved, as well as the budget and fees for 2018. The decision was taken to implement the new constitution and fee structure, which had been approved through a ballot of all of the membership in 2017, from the start of the General Assembly in June 2018. Sharon Bond and Les Dick would therefore stand down from the IEC at that time. The Chairman thanked them for their services to ICNDT.

A General Assembly was held on 14 June 2018, alongside of the ECNDT Conference. The updated constitution was put into practice and members from the Regions were nominated to the ICNDT IEC according to the new constitution. During the General Assembly, a memorial was held for Dr Baldev Raj (Past Chairman, ICNDT), approval of minutes of the 38th and 39th meetings from Munich 2016 was carried out, intermediate accounts were presented to the end of May 2018, membership fees were discussed for 2019 and budgets were approved. Further details of these developments are presented in the following pages.

The ICNDT Advisory Committee (IAC), chaired by Mike Farley, was also held on 14 June 2018. This was the first meeting of the committee following the restructure of ICNDT and its Regions. The Chairman provided further explanation of the new fee structure and the processes to confirm the fees that each member will pay. A session was held to collect ideas on the priorities for action by ICNDT and the Regions in the next few years and also to consider what should be focused on at a regional level and what should be focused on at an international level. These ideas are now under consideration by the IEC for incorporation in the Strategic Plan.

Working Group 1 (Qualification and Certification) met during the ECNDT in Gothenburg, chaired by Alexander Mullin. The WG1 action plans were discussed and updated in the meeting. One of the other important topics covered was the ICNDT contribution to the proposed revision of ISO Standard 9712: Non-destructive testing – Qualification and certification of NDT personnel. ICNDT Task Group members discussed the relevant inputs from WG1.

The Certification Executive Committee (ICEC) activities centre around the Multilateral Recognition Agreement (MRA), conformity assessment of Personnel Certification Bodies (PCBs) and the Examination Question Bank (EQB). The ICEC carries out most of its work via email and the internet but held a physical meeting on 13 June during ECNDT 2018. A follow-up online meeting on 23 October 2018 noted good progress with most of the actions. There are now 46 signatories to the MRA Schedule 1, the most recent being Confédération Marocaine pour les Essais Non Destructifs (COMEND), Morocco, and the Industrial Research Institute (IRI), the Lebanese Society. There are 14 PCBs registered under the MRA Schedule 2. The Chinese Society for Non-Destructive Testing (ChSNDT) had a PCB Conformity Assessment by ICEC in March 2018 and renewed successfully. The maintenance and longer-term development of the EQB was discussed at the ICEC meeting in June 2018. Since then, a new software specialist has been identified to take over the support.

Working Group 3 (Research and Education) met in Gothenburg in June 2018 during the ECNDT, moderated by Advisory Committee Chairman Mike Farley. The Action Plan was reviewed and updated and it is hoped that these actions and the enthusiastic direction of the Chairman Prof Younho Cho and Vice Chairman Anton Erhard will lead to early progress, particularly in the activities of ICNDT Specialist International Groups, which are being encouraged to organise sessions at the WCNDT in South Korea in 2020.

Working Group 4 (Communications) had a meeting in Gothenburg, where Mr Shohei Ooka updated the action plans and progress for the group and discussion took place regarding effective communication using web system with members. A further brief meeting was held during the ASNT conference in Houston, Texas.

Working Group 6 (Condition Monitoring) held a web meeting on 18 September under the Chairmanship of Prof Len Gelman and Mr César Belinco from Argentina. Items covered included upcoming WCCM conferences and events, joint workshops, a review of CM recommendations, awards, education and other CM activities. ICNDT's Liaison Membership of ISO/TC 105 SC6 was reinstated and Prof Gelman was appointed as the lead.

ICNDT Chairman Sajeesh K Babu represented ICNDT at a number of meetings and events during 2018. He participated in the 12th ECNDT and provided a welcome speech in Gothenburg. He had attended the ASNT Annual Conference and addressed the International Forum. He opened the 5th Iranian NDT Conference in Tehran and was a Guest of Honour at the MINDTCE 2018 conference in Malaysia. Dr Babu also presented at the ISNT Conference, NDE 2018, in Mumbai, providing a keynote address.

ICNDT Chairman Sajeesh Babu, Advisory Committee Chairman Mike Farley and WG1 Chairman Alexander Mullin presented during the ISO/TC/135/SC7 meetings as delegates and provided valuable input to the review of ISO 9712:2012, participating in the various Task Groups. The meeting was held in Houston in conjunction with the ASNT Annual Conference.

The preceding paragraphs report on meetings held in 2018 and it is noted that many of these were conducted alongside the 12th European Conference on NDT (ECNDT), which took place in Gothenburg, Sweden, from 11-15 June 2018.

The event was a huge success, with nearly 2000 delegates from many different countries, more than 190 exhibitors occupying a large exhibition area and nearly 500 technical papers presented in nine parallel sessions. The busy technical programme and intense meeting schedule were supplemented by an enjoyable social calendar that included a glittering Gala Dinner on the Wednesday evening.

The conference was organised jointly by the Swedish Society for NDT (FOP), the Norwegian NDT Society (NSNDT), the Danish Society for NDT and the Finnish Society for Non-Destructive Testing (FiNDT). Peter Merck was the Chair of the Organising Committee (assisted by Frode Hermansen of NSNDT), Lars-Ove Skogh was Chair of the Technical Programme Committee and Håkan Andersson was Chair of the Exhibition Committee.

The Opening Ceremony included welcome speeches from ECNDT (Peter Merck), EFNDT (Peter Trampus) and ICNDT (Sajeesh Babu) and an address by the Deputy Lord Mayor of the City of Gothenburg, Elisabet Rothenberg. These were followed by technical plenaries from Leonard J Bond from the Centre for NDE and Aerospace Engineering, Iowa State University, USA, who spoke on 'NDE in-process for metal parts fabricated using powder-based additive manufacturing', Lars Nyborg of Chalmers University of Technology, who also spoke on additive manufacturing, Jocaim Fogelström from SKF, and Mattias Skafar from the European Spallation Source ESS ERIC, who presented a fascinating talk on the European Spallation Source.

Several EFNDT awards were presented at the Opening Ceremony and at the EFNDT General Assembly meeting on Tuesday 12 June 2018 Roger Lyon (UK) was appointed EFNDT President and Fermín Gómez Fraile was elected Vice President.

The technical programme also included a European Research Day on 13 June, organised by Academia NDT International. A highlight of this was a talk on single-crystal cryo-electron microscopy by Joachim Frank, Nobel Prize Winner in Chemistry, 2017.

The 12th ECNDT thus achieved its objective of providing an excellent opportunity to strengthen global collaboration. It represented an occasion to see and to be seen by a large number of specialists in the field of NDT from all over the world. The exhibition and conference environment allowed researchers and leading experts to meet and share ideas and expertise.



Peter Merck, Chair of the Organising Committee of the 12th ECNDT



ICNDT Chair Sajeesh K Babu welcomes delegates to the 12th ECNDT

ICNDT Officers 2018:

ICNDT Chair	Mr Sajeesh K Babu (Singapore)
ICNDT Past Chair	Dr Mike Farley (UK)
ICNDT General Secretary	Mr David Gilbert (UK)
World Conference President	Prof Younho Cho (Korea)
NDT Society to provide secretariat	The British Institute for NDT (UK)
Treasurer	Mr Gerhard Aufricht (Austria)
Elected members (until June 2018)	Ms Sharon Bond (Canada)
	Mr Les Dick (New Zealand)
Auditors	Mr Douglas J Marshall (Canada) and Dr Werner Schmid (Switzerland)
Chair – The ICNDT Certification Executive Committee	Mr Harold Jansen
Chair WG 1 – Certification	Mr Alexander Mullin (Russia)
Chair WG 2 – Membership	Mr João Conte (Brazil)
Chair WG 3 – Research	Prof Younho Cho (Korea)
Chair WG 4 – Communications	Mr Shohei Ooka (Japan)
Chair WG 5 – Radiation Protection	Dr Matthias Purschke (Germany)
Co-Chairs WG 6 – Condition Monitoring	Prof Len Gelman (UK), Mr Terry Clausing (USA) (until June 2018) and Mr C Belinco (Argentina)
Chair WG 7 – Administration	Dr Mike Farley (UK)

Regional Group Representatives:

Africa	Mr Harold Jansen
	Dr Kamal Sahaimi
Asia-Pacific	Dr Norikazu Ooka
	Mr Jong Poh Lee
Europe	Prof Peter Trampus replaced June 2018 by Mr Roger Lyon
	Dr Matthias Purschke replaced June 2018 by Mr Fermín Gómez Fraile
Pan America	Mr César Belinco
	Dr Army Bereson

Strategic Planning and Organisation

During 2018, the primary focuses of the IEC were on delivering the actions of the strategic plan and achieving progress with the reorganisation proposal (see 2016 and 2017 Annual Reports). Ongoing status reviews in each of these areas were held at each IEC meeting.

International Specialist Groups

Under the new Operating Procedure (OP26: International Specialist Groups – ISGs) several Specialist Groups have now been set up under the auspices of ICNDT. The Groups are intended for those topics, either technology areas or application areas, in which 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 (Maroviszcz)
- NDE for the Fourth Industrial Revolution (DGZfP)
- NDT of Art and Cultural Heritage (BINDT)
- NDT Reliability (DGZfP)
- Non-Linear UT (KSNT)
- Guided Wave UT (KSNT)
- NDT Automotive Composites (BINDT).

ISGs are open to all members of NDT Societies in ICNDT.

Review of organisation of ICNDT and the Regional Groups

The plans for the reorganisation of ICNDT and the Regional Federations/Groups have continued to progress well in 2018, following the approval, by a significant majority, at the General Assembly in Munich (39th meeting – 16 June 2016).

Outline of reorganisation

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

ICNDT's responsibilities are 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 are 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 next page). By this means the Regions are fully involved in the decision making and executive actions of ICNDT and ICNDT has direct communication links to the Regions.

The ICNDT Executive Committee (IEC) is made up of a Chairman, General Secretary, Treasurer, Regional Representatives (one for 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 are non-voting members.

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

An Advisory Committee (IAC) replaces the current Policy and General Purposes Committee. It provides 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 is:

- 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 is chaired by the Chairman of ICNDT (alternate: the Past Chairman).

New fee structure

The fee structure proposed was approved by the PGP Committee during 2017. The new structure is basically as follows:

- Fees are based on the size of the member society. Members are categorised as A, B, C, D or E and will pay the corresponding fee. All categories of member continue to have a vote at the General Assembly of ICNDT and in their Regional Groups.
- Each Society chooses 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 replaces separate fees for ICNDT and the Regions. Members that wish to participate in more than one Region pay additional Regional components (60% of the full fee for each additional region).
- Associate Members pay 75% of the full fee.

Changes to the Constitution and Operating Procedures

The Constitution (V4) and OPs 3, 8, 12 and 15 were approved by the PGP at the internet meeting hosted from Oran in November 2016.

OPs 1, 2, 3*, 4, 5, 6, 7, 11, 12*, 13, 14, 18, 19, 20, 23 and 24 were approved unanimously by postal ballot of the PGP between 10 and 31 March 2017.

OP28 was submitted to postal ballot by the PGP 13-25 April 2017.

*Updated style only. Note that OPs 9, 10, 21, 22, 25, 26 are unchanged and OPs 16 and 17 are superseded.

The current Constitution requires a six-month period for voting on changes to the Constitution. A positive vote by two thirds of the votes cast (excluding abstentions) with a minimum of ballot return of 50% of the voting members was required and this was achieved by the deadline of 1 November 2017. The full set of revised operating procedures was also approved. At the Annual Meeting in January 2018 the membership approved the implementation of the new constitution and operating procedures (including fee structure) from the close of the ICNDT General Assembly, held in Gothenburg at the ECNDT in June 2018.

MRA and PCB Registration

Multilateral Recognition Agreement (OP19)

- There are currently 46 signatories to Schedule 1 of the MRA, with the most recent being Confédération Marocaine pour les Essais Non Destructifs (COMEND), Morocco, and the Industrial Research Institute (IRI), the Lebanese Society.
- There are currently 14 Personnel Certification Bodies (PCBs) registered under the MRA Schedule 2.

Personnel Certification Body Compliance Assessment (OP20)

- The Chinese Society for Non-Destructive Testing (ChSNDT) had a PCB Conformity Assessment by ICEC in March 2018 and renewed successfully.

Examination Question Bank (EQB)

- The maintenance and longer-term development of the Examination Question Bank (EQB) was discussed at the ICEC meeting in June 2018. Since then, a new software specialist has been identified to take over the support.

Membership

A total of 46 members had paid their fees by the end of the year, thereby retaining their voting status.

In 2018, the Membership Committee was chaired by Mr João Conte (ABENDI) and members in the committee were Ms Sharon Bond (CINDE), Mr Les Dick (NZNDT), Dr Mike Farley (Chair, PGPC), Mr David Gilbert (Gen Sec), Mr Ferid Herelli (TNDT), Dr Alexander Mullin (RSNTTD), Dr Matthias Purschke (DGZfP) and Mr Shohei Ooka (JSNDI).

The Membership Committee has been involved with the following activities:

- Review of the ICNDT Strategic Plan – Action plan ‘Support NDT Societies’.
- Contact with Algerian and Lebanese societies regarding membership of ICNDT.
- Contact with institutions in Latin America, which develop NDT activities in countries that do not have national NDT societies: ESPOL/Ecuador, CEADEN/Cuba and ITCR/Costa Rica.
- Contact with Caribbean entities to promote ICNDT’s activities.
- Pending registration form by Lanka Association for Non Destructive Testing (LANDT) to become a full member of ICNDT.
- Confédération Marocaine pour les Essais Non Destructifs has joined ICNDT as a full member.
- Reviewing and updating relevant Operating Procedures.

Website/Journal/Publications

The ICNDT Secretariat has continued to provide updates to members through the website and ICNDT Journal (normally three issues published each year; however, unfortunately only one was published in 2018), which have been consistently of a high standard thanks to the efforts of Sharon Bond (CINDE) and Corinne Mackle, Zoe White, Stephanie Pulley and Hannah Nichol from the Publishing Department of the British Institute of Non-Destructive Testing.

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

Finance

The audited financial report for 2018 and the budget for 2019 are shown in the following pages.

Acknowledgements

ICNDT wishes to thank its Executive Committee members for their efforts during 2018 and acknowledges the support of the Secretariat provided by the British Institute of NDT.

Sajeesh K Babu, Chairman, ICNDT

Balance at 31.12.2018		
	2018	2018
	Income (€)	Expenditure (€)
Opening balance	107,840.42	
Donation from Austrian Chamber of Commerce	500.00	
Donation from WCNDT	-	
Membership fees (46 at €300/2 at €100)	14,300.00	
Bank account Nr: 290-317-995/01 – interest	11.18	
PCB CA service	7500.00	
MRA Service (OP19)	-	
EQB product: application fees (OP23)	8275.00	
EQB update fees (OP23)	-	
Meeting expenses/Go to meetings		2280.01
Bank account Nr: 290-317-99501 – cost		211.12
Bank expenditures for incoming fees		117.25
Printing costs		-
Office costs		273.00
PCB CA service costs (<i>system administration, insurance</i>) (OP20)		4320.00
MRA/PCB – <i>administration</i> (OP19)		3560.00
MRA/PCB – <i>auditor payment</i> (OP19)		3841.07
EQB service costs (<i>administration and overheads</i>) (OP23 contingencies)		3000.00
Professional service		6960.00
Preparation of ICNDT monographs		-
Supplies (<i>ICNDT badges, flags, etc</i>)		-
Miscellaneous (<i>shipping, conference calls</i>)		661.32
Total	138,426.60	25,223.77
Allocation to reserves (31.12.2018)	113,202.83	

Financial Report – Budget 2019		
	Income (€)	Expenditure (€)
Opening balance (01.01.2019)	113,202.83	
Donation from Austrian Chamber of Commerce	500.00	
Donation from DGZfP (WCNDT Munich)	-	
Membership fees (approximately 48, new fee structure)	23,896.00	
Bank account <i>Nr: 290-317-995/01 – interest</i>	12.00	
PCB CA service (OP20)	10,000.00	
MRA service (OP19)	3550.00	
EQB product – application fees (OP23)	7500.00	
EQB update fees (OP23)	-	
Meeting expenses/Go to meetings		2280.01
Bank account <i>Nr: 290-317-995/01 – cost</i>		211.12
Bank expenditures for incoming fees		117.25
Printing costs		2400.00
Office costs		273.00
PCB CA service costs (<i>system administration, insurance</i>) (OP20)		5000.00
MRA/PCB – <i>administration</i> (OP19)		5000.00
MRA/PCB – <i>auditor payment</i> (OP19)		10,000.00
EQB service costs (<i>administration and overheads</i>) (OP23)		7500.00
Professional service		6000.00
Preparation of ICNDT monographs		-
Supplies (<i>ICNDT badges, flags, etc</i>)		-
Miscellaneous (<i>shipping, conference calls</i>)		1000.00
Total	158,660.83	39,781.38
Allocation to reserves	118,879.45	

Gerhard Aufricht, Treasurer, January 2019, Vienna. Rev 03.

Published on behalf of ICNDT by the Publishing Department, The British Institute of Non-Destructive Testing, Riverside Way, Bedford Road, Northampton NN1 5NX, UK

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