



*The World Organisation for NDT*

# Annual Report 2019

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 2019.**

## Vision and Mission

### Our Vision

To create a safer world through wider use of non-destructive testing (NDT) and diagnostic technologies.

### Our Mission

To lead a global network of NDT societies and their regional groups devoted to the promotion of the development of the science and practice of NDT for the benefit of the public worldwide.

## Committees and Groups

### ICNDT Executive Committee (IEC)

IEC meetings were held four times during 2019. The first physical meeting was held on 25 January 2019 in Glasgow, alongside the British Institute of Non-Destructive Testing (BINDT) Scottish Branch events, with the physical presence of the Chair. The second meeting was held via GoToMeeting on 25 April 2019, the third on 29 August and the fourth on 28 November. All meetings were chaired by Dr Sajeesh K Babu and offered the facility for members to join via web conferencing.

### ICNDT Advisory Committee (IAC)

The IAC meeting was held on 21 October 2019 during the VII Pan-American Conference on Nondestructive Testing (COPAEND) in Mexico City with Dr Babu and Mr David Gilbert present and Dr Mike Farley participating via the Internet.

### World Conference on Non-Destructive Testing (WCNDT) 2020

At each meeting of the IEC, reports were received from Prof Younho Cho on the progress being made in the organisation of the 20th WCNDT, which is to be held in Seoul, South Korea, from 8-12 June 2020, under the organisation of the Korean Society for Nondestructive Testing (KSNT). Members will be delighted to hear that the exhibition is fully sold out, more than 1100 paper abstracts have been submitted and some excellent keynote speakers have been engaged. During the conference there will be two meetings of the General Assembly of ICNDT, where elections will be held for officers for 2020-2024 and the host society for the 22nd WCNDT in 2028. There will also be meetings of Working Groups 1, 3, 4 and 6. Full details of the conference are given at [www.wcndt2020.com](http://www.wcndt2020.com)

### Working Group 1 (Qualification and Certification)

Working Group 1 (WG1) met during the VII COPAEND in Mexico City in October, chaired by Mr Alexander Mullin. The WG1 action plan was discussed and updated during the meeting. The very first draft of the revised ISO 9712 standard was presented to the group members, along with comments from the International Organization for Standardization (ISO)'s Committee of Conformity Assessment (CASCO) in terms of compliance with ISO/IEC 17024:2012. The Terms of Reference of WG1 were slightly amended to encourage members to be present in person at the physical meetings.

The Working Group is organising a workshop during the 20th WCNDT in South Korea at which the ongoing activities of the group will be publicised.

### The ICNDT Certification Executive Committee (ICEC)

Activities of the ICEC 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 and held online meetings on 15 May and 2 October 2019. There are now 46 signatories to the MRA Schedule 1. There are 17 PCBs registered under the MRA Schedule 2, which is three more than the previous year. One new application and four renewals of registration are in progress. An updated version of the EQB has been distributed to all registered users, which includes new phased array ultrasonics questions in both English and Spanish. The ICNDT register of PCBs has been extended to include MRA membership and all known PCBs have been contacted to supply data. The ICEC has recommended that only PCBs that have provided new data should be listed in the public register. The revised register has been published on the ICNDT website and is available at: [www.icndt.org/what-is-icndt/documents/document-store/entryid/10158](http://www.icndt.org/what-is-icndt/documents/document-store/entryid/10158)

Tony Wooldridge retires as ICEC Secretary at the end of March 2020, following a period of hand-over to Colin Bird. ICNDT wishes to acknowledge Tony's excellent work in the role.

### Membership Committee

Lead by Mr João Conte, the focus has been on contact with potential new members and the formation of NDT societies in Chile and Ecuador.

### Working Group 3 (Research and Education)

Working Group 3 met in Friedrichshafen, Germany, in May 2019. The meeting was co-chaired by Prof Younho Cho and Prof Anton Erhard. The objective of the meeting was to develop plans for the ICNDT Specialist International Groups (SIGs) to have sessions/workshops at the 20th WCNDT in South Korea. Three sessions were proposed and organisers suggested:

1. Reliability (D Kanzler and M Bertovic)
2. Non-linear acoustics (I Solodov and M Kreuzbruck)
3. NDE 4.0 (J Vrana, B Valeske and R Singh).

Details of these sessions and any additional related SIG workshops or group meetings will be published in the 20th WCNDT programme. Further SIGs are under consideration as a result of discussions in Busan, South Korea, in August 2019 and Singapore in December 2019.

### Working Group 4 (Communications)

Working Group 4 held a meeting at the American Society for Nondestructive Testing (ASNT) Research Symposium in Orange County, California, where Mr Shohei Ooka updated the action plans and progress for the group and discussion took place regarding effective communication with members via the website. A further brief meeting was held during the ASNT Annual Conference in Las Vegas, Nevada.

### Working Group 6 (Condition Monitoring)

Under the Chairship of Prof Len Gelman, UK, and Mr César Belinco, Argentina, the Working Group has organised input on condition monitoring to several conferences, including the World Congress on Condition Monitoring (WCCM) 2019 (multiple structured sessions and plenary keynote talks) and WCNDT 2020. The formal process to re-establish ICNDT's Liaison A Membership of ISO/TC 108/SC5 was completed in 2019 and Prof Gelman and Dr Babu have been registered as ICNDT Liaison representatives. They are able to nominate people to Working Groups.

### ISO/TC 135/SC7

ICNDT Chair Dr Babu and Advisory Committee Chair Dr Farley represented ICNDT at the ISO/TC 135/SC7 meetings at the Plenary and Task Group meetings held in Edmonton, Canada, 17-19 June 2019, as liaison delegates, and provided valuable input to the review of ISO 9712:2012. Thanks are due to the Canadian Institute for Non-Destructive Evaluation (CINDE) for its excellent hospitality and for providing the ISO committee members with access to their annual conference.

### Chair's Activities

ICNDT Chair Dr Babu represented ICNDT at several meetings and events during 2019. He presented a paper at the BINDT Scottish Branch 'NDT for safety-critical applications workshop' event. He addressed the 2019 DACH conference at the opening in Friedrichshafen, Germany, on 27 May 2019. The DACH conference integrates NDT professionals from German-speaking countries in Europe, especially from Germany, Switzerland and Austria. Dr Babu also addressed the CINDE members during their national conference NDT in Canada (NDTiC) 2019, which was held between 18 and 21 June 2019 in Edmonton, Alberta, Canada.

Dr Babu has participated in the Asia Pacific Federation for Non Destructive Testing (APFNDT) executive meeting held on 8 and 9 July in Tokyo, as invited by the secretariat, the Japanese Society for Non-Destructive Inspection (JSNDI). He also participated in a WCNDT 2020 progress review meeting in Busan, South Korea, between 29 and 31 August 2019 to review conference matters and to address the KSNT members by delivering a lecture on 'Global non-destructive technology trends, policies and international cooperation'.

He also participated at the opening of the VII COPAEND in Mexico City between 21-24 October 2019, organised by the Instituto Mexicano de Ensayos No Destructivos (IMENDE), which is one of the largest events organised in the American continent by an ICNDT regional member. The conference included an exhibition and various Working Group meetings. During this conference, he participated in the ICNDT Advisory Committee meeting, the ICNDT Working Group 1 meeting and the Pan-American Federation for Nondestructive Testing (PANNDT) meeting. At the meeting, IMENDE was awarded with the ICNDT Schedule II MRA certificate.

The last participation was attended in Dr Babu's home country (Singapore) for the opening of the Singapore International NDT Conference & Exhibition (SINCE) 2019, which was held from 4-5 December 2019. He also participated in the APFNDT Board and General Assembly meetings.

**ICNDT Officers 2019:**

<b>ICNDT Chair</b>	Dr 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>Auditors</b>	Mr Douglas J Marshall (Canada) and Dr Werner Schmid (Switzerland)
<b>Chair – The ICNDT Certification Executive Committee</b>	Mr Harold Jansen
<b>Chair WG 1 – Qualification and Certification</b>	Mr Alexander Mullin (Russia)
<b>Chair WG 2 – Membership</b>	Mr João Conte (Brazil)
<b>Co-Chairs WG 3 – Research and Education</b>	Prof Younho Cho (Korea) and Prof Anton Erhard (Germany)
<b>Chair WG 4 – Communications</b>	Mr Shohei Ooka (Japan)
<b>Chair WG 5 – Radiation Protection</b>	Charlotte Kaps (Germany) and David Gilbert (UK)
<b>Co-Chairs WG 6 – Condition Monitoring</b>	Prof Len Gelman (UK) and Mr C Belinco (Argentina)
<b>Chair WG 7 – Administration</b>	Dr Mike Farley (UK)

**Regional Group Representatives:**

<b>Africa</b>	Mr Harold Jansen
	Dr Kamal Sahaimi
<b>Asia-Pacific</b>	Dr Norikazu Ooka
	Mr Jong Poh Lee
<b>Europe</b>	Mr Roger Lyon (until 30 September)
	Mr Fermín Gómez Fraile
<b>Pan America</b>	Mr César Belinco
	Dr Arny Bereson (until retirement 30 May)

**Obituaries**

It is with great regret and sadness that the passing of three very notable figures in international NDT circles must be reported.

**Roger Lyon CEng FInstNDT**

Roger Lyon, President of EFNDT since 12 June 2018, passed away suddenly on 30 September 2019 at the age of 74.

Roger has been a colleague and friend in BINDT, ICNDT and the European Federation for Non-Destructive Testing (EFNDT) for many years. He was President of BINDT from 2007-2008. His energy and commitment were greatly admired. He provided excellent leadership and was always willing to work at the detail necessary to achieve his plans for the benefit of the NDT community.

He was honoured with the presentation of the ICNDT Havercroft Award in 2016 in recognition of his huge success in developing NDT apprenticeship schemes in the UK.



**Roger Lyon**



**Professor Hajime Hatano**

### **Professor Hajime Hatano**

Professor Hajime Hatano, the former Chair of ISO/TC 135, passed away on 26 August 2019 at the age of 73. He was the Secretary of ISO/TC 135 for ten years, from 1998 to 2007, and the Chair for nine years, from 2007 to 2015. He was honoured with the presentation of the ICNDT Havercroft Award in 2012 in recognition of his success, working with Mr Patrick Fallouey of the European Committee for Standardization (CEN) to harmonise the certification standards EN 473 and ISO 9712. His passion for ISO 9712 and his contribution to ISO/TC 135 activities are immeasurable achievements.

### **Dr Professor Emeritus Ioannis Prassianakis**

Dr Professor Emeritus Ioannis Prassianakis died suddenly on 17 May 2019, during a meeting of the Management Board of the Hellenic Society of NDT (HSNT).

A pioneer in the NDT field in Greece, he was a founder of the Hellenic Society of NDT in 1987, which he served as President for 22 years until his unexpected passing.

He will be fondly remembered by all of the international NDT family.



**Dr Professor Emeritus Ioannis Prassianakis**

## **Strategic Planning and Organisation**

During 2019, the IEC focused on delivering the actions of the Strategic Plan and implementing the reorganisation and new fee structure agreed in 2018. Ongoing status reviews in each of these areas were held at each IEC meeting. An updated Strategic Plan will be presented at the Annual Meeting in 2020.

## **Review of Organisation of ICNDT and the Regional Groups**

2019 was the first year in which the new fee structure was implemented. Each member paid a single fee, which was then divided as arranged between ICNDT and the appropriate region. Some members paid an additional regional fee. All of the Regions had agreed in advance not to vary their parts of the composite fee, so in all cases the split was 40% to ICNDT, 60% to the Region. EFNDT and APFNDT had opted to collect the fees themselves and pass over the appropriate share to ICNDT. In contrast, the Pan-American Federation for Nondestructive Testing (PANNDT) and the African Federation of Nondestructive Testing (AFNDT) had opted for ICNDT to collect the composite fees on their behalf. By the end of the year almost all of the fees had been collected with a few gaps, including many very small societies in the 100 euro Category E, which is disappointing. The rules of ICNDT are such that only members that have paid their 2018 fees will be able to vote at the General Assembly in South Korea.

### **Changes to the Constitution and Operating Procedures**

There are no changes to the Constitution. Several updates to Operating Procedures (OP13, OP14A and OP19) will be presented at the Annual Meeting for approval.

## **MRA, PCB and EQB**

### **Multilateral Recognition Agreement (OP19)**

- There are currently 46 signatories to Schedule 1 of the MRA.
- There are currently 17 Personnel Certification Bodies (PCBs) registered under the MRA Schedule 2, an increase of three during 2019. The latest registrations are: Asociación Argentina Ensayos No Destructivos y Estructurales (AAENDE), Argentina; TÜV NORD Czech; The Department of Skills Development, Malaysia; and IMENDE, Mexico. One organisation has not renewed.

### **Personnel Certification Body Compliance Assessment (OP20)**

- IMENDE, Mexico, had a PCB Conformity Assessment by ICEC, which was completed successfully in September 2019 when the PCB was also registered under the MRA Schedule 2.

### **Examination Question Bank (EQB)**

- An updated version of the EQB has been distributed to all registered users, which includes nearly 100 new phased array ultrasonics questions in both English and Spanish. The maintenance and longer-term development of the EQB remains under discussion, and it is hoped that an online delivery system may be facilitated in the future by the Non-Destructive Society of Singapore (NDTSS).

## 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 two were published in 2019), which have been consistently of a high standard thanks to the efforts of Sharon Bond, Don Andrews (CINDE) and Corinne Mackle, Zoe White, Stephanie Hepworth and Hannah Nichol from the Publishing Department of the British Institute of Non-Destructive Testing (BINDT).

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

## Finance

The audited financial report for 2019 and the budget for 2020 are shown in the following pages.

## Acknowledgements

ICNDT wishes to thank its Executive Committee members for their efforts during 2019 and acknowledges the support of the Secretariat provided by the British Institute of NDT.

*Dr Sajeesh K Babu, Chair, ICNDT*

<b>Balance at 31.12.2019</b>		
	<b>2019</b>	<b>2019</b>
	<b>Income (€)</b>	<b>Expenditure (€)</b>
Opening balance	113,202.83	
Donation from Austrian Chamber of Commerce	500.00	
Donation from WCNDT	0.00	
Membership fees (new structure)	18,132.00	
Bank account Nr: 290-317-995/01 – interest	24.78	
PCB CA service	0.00	
MRA Service (OP19)	8480.00	
EQB product: application fees (OP23)	7500.00	
EQB update fees (OP23)	0.00	
Meeting expenses/Go to meetings		1288.13
Bank account Nr: 290-317-99501 – cost		130.57
Bank expenditures for incoming fees		42.83
Printing costs		0.00
Office costs		1402.00
PCB CA service costs ( <i>system administration, insurance</i> ) (OP20)		3987.00
MRA/PCB – auditor payment (OP19)		5360.00
EQB service costs ( <i>administration and overheads</i> ) (OP23 contingencies)		4526.00
Professional service		5600.00
Preparation of ICNDT monographs		0.00
Supplies ( <i>ICNDT badges, flags, etc</i> )		0.00
Miscellaneous ( <i>shipping, conference calls</i> )		0.00
<b>Total</b>	<b>147,839.61</b>	<b>22,336.53</b>
<b>Allocation to reserves (31.12.2019)</b>		<b>125,503.08</b>

Pending costs – €1975.00

Gerhard Aufricht, Treasurer, 14 January 2020, Vienna. Rev 0.



<b>Financial Report – Draft Budget 2020</b>		
	<b>Income (€)</b>	<b>Expenditure (€)</b>
Opening balance (01.01.2020)	125,503.08	
Donation from Austrian Chamber of Commerce	500.00	
Donation from WCNDT	30,000.00	
Membership fees (new fee structure)	20,000.00	
Bank account <i>Nr: 290-317-995/01 – interest</i>	30.00	
PCB CA service (OP20)	11,000.00	
MRA service (OP19)	7350.00	
EQB product – application fees (OP23)	7500.00	
EQB update fees (OP23)	3000.00	
Meeting expenses/Go to meetings		11,500.00
Bank account <i>Nr: 290-317-995/01 – cost</i>		200.00
Bank expenditures for incoming fees		50.00
Printing costs		2000.00
Office costs		2000.00
PCB CA service costs ( <i>system administration, insurance</i> ) (OP20)		11,000.00
MRA/PCB – <i>auditor payment</i> (OP19)		8000.00
EQB service costs ( <i>administration and overheads</i> ) (OP23 contingencies)		5000.00
Professional service		8000.00
Preparation of ICNDT monographs		0.00
Supplies ( <i>ICNDT badges, flags, etc</i> )		2000.00
Miscellaneous ( <i>shipping, conference calls</i> )		2000.00
<b>Total</b>	<b>204,883.08</b>	<b>51,750.00</b>
<b>Allocation to reserves</b>		<b>153,133.08</b>

Gerhard Aufricht, Treasurer, 14 January 2020, Vienna. Rev 1.

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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