



The World Organisation for NDT

Annual Report 2020

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 2020.

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.

Introduction

The operations of the International Committee for Non-Destructive Testing (ICNDT), its regions and its member NDT societies have been greatly impacted by the COVID-19 pandemic. The biggest impact has been the postponement, announced 10 April 2020, of the 20th World Conference on Non-Destructive Testing (WCNDT), which was due to be held in South Korea in June 2020.

Following the postponement of the 20th WCNDT, it was necessary to make alternative arrangements for some of the ICNDT business that is normally conducted every four years at the World Conference.

In accordance with the ICNDT Constitution, a General Assembly (GA) should be held at the World Conference. At the GA, the ICNDT Officers (Chair, General Secretary and Treasurer), the Secretariat and the Auditors are elected. The GA also decides on the venue of the next but one World Conference (in this case the 22nd).

The ICNDT Executive Committee (IEC) discussed what should be done and recommended the following:

- The GA meetings should be postponed until the 20th WCNDT.
- The current office bearers, Secretariat and Auditors should remain in office until the GA is held at the 20th WCNDT.
- The decision on the 22nd WCNDT should be postponed until the GA is held.
- The presentation of the ICNDT Awards should be postponed until the 20th WCNDT.

Since these recommendations are outside the normal constitution, it was necessary to ask for approval of them by the full membership of ICNDT. In accordance with the Constitution (paragraph 8.1), a quorum of one third of the voting membership and a simple majority of the votes cast was required. Each Full Member had one vote. A period of four weeks was allowed for voting via email ballot, with a deadline of 22 May 2020. The members gave unanimous approval.

Meetings, Committees, Groups

Annual Meeting 2020

The Annual Meeting of ICNDT Members was held 24 January 2020 with some members present in person, including: Dr Sajeesh Babu, Chair; David Gilbert, General Secretary; Dr Mike Farley, Past Chair and ICNDT Advisory Committee (IAC) Chair; and Professor Ik-Keun Park, President of the Korean Society for Nondestructive Testing (KSNT) and Chair of the WCNDT Organising Committee. The Annual Report for 2019 was approved, as well as the accounts for 2019 and the fees and budget for 2020. Members were given an update on the plans for the 20th WCNDT, scheduled for June 2020.

ICNDT General Assembly and 41st Meeting online

In place of the meeting that would have been held at the 20th WCNDT, an online GA was held 31 July 2020. The meeting was chaired by ICNDT Chair Dr Sajeesh Babu. Three regional groups and 29 individual member societies were present. Reports were received from the regional groups, Working Groups and the International Organization for Standardization (ISO). There was discussion around the rearrangement of the 20th WCNDT and the progress of ISO/TC 135/SC 7 with the review of ISO 9712 on personnel certification in NDT.

On behalf of all members, Dr Mike Farley proposed a vote of thanks to Dr Sajeesh Babu who has worked very hard, sometimes under difficult circumstances, over the last four years and who has agreed to remain in post.

It was announced in advance that member societies were encouraged to share their experiences, good and bad, of the operation of NDT societies with the restrictions resulting from the COVID-19 pandemic. There was a tremendous response, with presentations from the following: Argentina, Australia, Austria, Brazil, Canada, China, the Czech Republic, France, Germany, India, Iran, Italy, Japan, the Netherlands, Romania, Russia, Singapore, Spain, Sweden, Switzerland, the UK and the USA. The presentations are available to download from the ICNDT website. Overall, the societies have shown a great deal of initiative and managed to maintain their activities in new ways.

ICNDT Executive Committee (IEC)

IEC meetings were held five times online during 2020, on 3 April, 30 April, 20 May, 4 September and 21 November. All meetings were chaired by Dr Sajeesh Babu. In addition, several online meetings were held between the IEC and the WCNDT Organising Committee. The IEC members have put in a tremendous effort during these uncertain times and were available for all the meetings to discuss, advise and strategise the very dynamic situation of COVID-19 and its effect on the WCNDT. The ICNDT Chair would like to extend his appreciation to Dr Mike Farley and David Gilbert, who stood side by side together with the IEC members for all key decisions and approvals.

ICNDT Advisory Committee (IAC)

Due to the postponement of the 20th WCNDT, there was no meeting of the IAC in 2020. Dr Mike Farley, IAC Chair, issued the following message: "It is good news that many NDT societies are managing to maintain their activities despite the pandemic and are finding new innovative ways of working with their members. Also, the revolution in meetings communications (Zoom, etc) has opened up new opportunities for small and fledgling NDT societies working on low budgets to bring people together."

World Conference on Non-Destructive Testing (20th WCNDT) 2020

At each meeting of the IEC, reports were received from Professor Younho Cho on the progress being made in the organisation of the 20th WCNDT, which was due to be held in Seoul, South Korea, from 8-12 June 2020, under the organisation of KSNT. Until the onset of the COVID-19 pandemic, progress was excellent, with the exhibition fully sold out, more than 1100 paper abstracts submitted and some excellent keynote speakers engaged. A programme of ICNDT Workshops had been agreed (see below) and plans were in place for ISO/TC 135 meetings on the days following the conference.

In March 2020, after discussion with the IEC, KSNT decided that the conference had to be postponed and new dates (31 May-4 June 2021) and a new venue (Songdo Convensia, Incheon) were announced. The call for abstracts was reopened and a new floor plan for the exhibition was established. Interest in the conference continued to be very good. At the end of November 2020, 864 people had registered and 180 exhibitors had contracted for the exhibition. Only four booths were still available.

It became clear to KSNT and the IEC that it was extremely unlikely that it would be possible to run a physical conference and exhibition in May/June 2021, as there would very likely be travel restrictions as well as restrictions on gatherings of large numbers of people.

On 12 December 2020, the KSNT Organising Committee decided to postpone the conference. After observing the experiences of other conferences with online sessions and exhibitions, it was decided, after consultation with exhibitors and sponsors, to continue towards a physical conference and exhibition, which is now planned for February/March 2022. This date was chosen as a compromise between the desire to postpone for a full year and the need to leave a window between the 20th WCNDT and the 13th European Conference on Non-Destructive Testing (ECNDT 2022), which is being held in Portugal in June 2022.

Working Group 1 (Qualification and Certification)

There were no physical meetings of Working Group 1 (WG1) in 2020 due to the COVID-19 pandemic.

Two new members were approved by the IEC: Yordan Mirchev (Bulgaria) and Améla Elezovic (France).

A successful online workshop was held on 25 May 2020 to discuss how the ICNDT certification and training organisations are addressing the issues associated with the restrictions imposed by the COVID-19 pandemic. WG1 members, as well as representatives from the ICNDT Multilateral Recognition Agreement (MRA) Schedule 2 Personnel Certification Bodies (PCBs), were invited to report on the COVID-19 situation in their countries, government restrictions impacting training and certification, PCB actions (including interactions with Accreditation Bodies) and PCB plans. In total, more than 20 delegates took part in the workshop. All presentations are published on the ICNDT website.

Following the workshop, 'ICNDT recommendations for the operations of Certification Bodies during the COVID-19 pandemic in compliance with ISO/IEC 17024:2012 and ISO 9712:2012' was created by an Editorial Committee and approved for publication by the IEC. The main purpose of the recommendations document is to provide guidance to PCBs on how to ensure appropriate qualification and certification under the conditions of government restrictions on travel, educational services, the need for social distancing and the need to adopt safe working practices. The recommendations document is published on the ICNDT website.

The ICNDT Certification Executive Committee (ICEC)

Activities of the ICEC centre around the MRA, conformity assessment of 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 9 June, 4 September and 8 December 2020. In response to the difficulties resulting from the COVID-19 pandemic, the ICEC Secretary worked with PCBs to maintain their registrations and to extend the duration of their certification where renewal/recertification could not be undertaken.

There are now 47 signatories to the MRA Schedule 1, which is one more than the previous year. There are 18 PCBs registered under the MRA Schedule 2, which is one more than the previous year. Two new Schedule 2 applications are in progress. The ICNDT register of PCBs has been extended to include MRA membership and all known PCBs have been contacted to supply data. The register has been updated to show PCBs that have made contact and updated their data. 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

Membership Committee

Members are as follows:

- Mr Alexander Mullin (RSNTTD, Russia) – mullin@ndt-rus.ru
- Mr David Gilbert (BINDT, UK) – david.gilbert@bindt.org
- Mr Les Dick (NZNDTA, New Zealand) – ljedick@ndt.co.nz
- Dr Matthias Purschke (DGZfP, Germany) – pm@dgzfp.de
- Mr Shohei Ooka (JSNDI, Japan) – shohei@jsndi.or.jp
- Prof Ferid Herelli (COTEND, Tunisia) – herelliferid29@gmail.com

Led by João Conte, the focus of the Membership Committee remains to keep contact with potential new members and support the formation of NDT societies in Chile and Ecuador, but this has been interrupted by the COVID-19 pandemic and put on standby. An application by the Kazakhstan Association Defectoscopy is being processed and the association is aware that it is necessary to become a member of the Asia Pacific Federation for Non Destructive Testing (APFNDDT) first. There is also a pending request from the Institute of Non-Destructive Testing – Nigeria (INDTN) that is under consideration. Once approved, the new membership procedure will apply (see above).

Working Group 3 (Research and Education)

A sub-group of Working Group 3 (WG3), comprising Professor Younho Cho, Professor Anton Erhard and Dr Mike Farley, met on several occasions during January and February 2020 to finalise a programme of ICNDT Workshops for the 20th WCNDT. These were as follows:

- Research Horizons for NDT
- NDT Reliability
- NDE 4.0
- NDT Education (joint workshop with Academia NDT International)
- NDT Personnel Certification (organised by WG1).

The preparation was complete just a few days before the conference was postponed. Thanks are due to Dr Johannes Vrana, Dr Daniel Kanzler and Prof Roman Maev for their cooperation in finding speakers.

A Reliability of NDT webinar is being arranged for 29 January 2021 in cooperation with the British Institute of Non-Destructive Testing (BINDT).

The Specialist International Group on NDE 4.0 has absorbed a similar group, NDE 4.0 Ambassadors, initially set up in the USA.

Working Group 4 (Communications)

Working Group 4 (WG4) was planning to hold meetings at the 20th WCNDT in Seoul, Korea, and the ASNT Annual Conference 2020 in Florida, USA. However, there were no physical meetings due to the COVID-19 pandemic. Shohei Ooka updated the action plans and progress of the 'ICNDT Photograph Competition 2020' and renewal of the ICNDT website. In addition, a discussion took place regarding a revamped interface system for the website that will provide more effective communication and a streamlined approach for users. The *ICNDT Journal* was published once, Volume 9 Issue No 7, in June 2020.

Working Group 6 (Condition Monitoring)

Working Group 6 (WG6) is actively supporting the 20th WCNDT by organising multiple structured sessions. The Working Group is preparing to publish the best CM papers from the 20th WCNDT in the international journal *Insight* and the best case studies in the international newsletter *Condition Monitor*. Some members of WG6 are planning to make NDT/CM presentations at the event.

WG6 is actively supporting the Third World Congress on Condition Monitoring (WCCM 2021) in China by organising multiple structured sessions and making NDT/CM plenary keynote talks. WG6 is preparing to publish the best CM papers from WCCM 2021 in *Insight* and the best case studies in *Condition Monitor*.

The preparation of a special issue of *Insight* covering the topic of NDT/CM is an ongoing task.

WG6 is planning continuing professional development (CPD) related to NDT/CM at WCCM 2021, as well as joint NDT/CM cross-forums.

Argentina has offered to discuss all standards of ISO/TC 108/SC 5 'Condition Monitoring and Diagnostics of Machine Systems' at WG6. As that committee has a strong relationship with some aspects of asset management (there is a liaison officer between both ISO/TC committees, TC 108 and TC 251 'Asset Management'), the offer is also to discuss the subjects of TC 251, related to condition monitoring, at WG6. During December 2020, for the first time, an open discussion of an ISO/TC 108/SC 5 standard was carried out in the framework of this Working Group.

The next WG6 meeting in person will be held at the 20th WCNDT.

Professor Len Gelman and Mr César Belinco, Co-Chairs, WG6

ISO/TC 135

The in-person meetings of ISO/TC 135 planned for the days following the 20th WCNDT in June 2020 were postponed.

Online meetings of TC 135/SC 7 were held 22-24 September 2020 to complete the review of comments on the ISO 9712 CD following the ballot, which closed 28 February 2020, and to prepare the DIS. Dr Mike Farley and Dr Sajeesh Babu participated as liaison members on behalf of ICNDT. Dr Mike Farley attended a subsequent online meeting with ISO's Committee on Conformity Assessment (CASCO).

Chair's Activities

The ICNDT Chair, Dr Sajeesh Babu, attended the ICNDT Annual Meeting in January 2020 in person, but, soon after, his travelling and attendance at physical events was severely curtailed and he instead spent most of his time on internal matters. He supported online meetings, including participating in the WG1 Workshop (see above) and the Members' Forum during the 41st Meeting (see above). He also participated in the ISO 9712 SC 7 meetings alongside Dr Mike Farley. The ICNDT Chair delivered a congratulatory message for the 40th anniversary of KSNT. He also participated in the opening of NDE 2020: The Virtual Conference and Exhibition organised by the Indian Society for Non-Destructive Testing (ISNT) and was awarded an Honorary Fellowship. He has spearheaded some key changes this year, paving the way for the development of a more dynamic ICNDT website and the collection of fees through the Regional Federations.

ICNDT Officers 2020:

ICNDT Chair	Dr 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 of NDT (UK)
Treasurer	Mr Gerhard Aufricht (Austria)
Auditors	Mr Douglas J Marshall (Canada) and Dr Werner Schmid (Switzerland)
Chair – The ICNDT Certification Executive Committee	Mr Harold Jansen
Chair WG1 – Qualification and Certification	Mr Alexander Mullin (Russia)
Chair WG2 – Membership	Mr João Conte (Brazil)
Co-Chairs WG3 – Research and Education	Prof Younho Cho (Korea) and Prof Anton Erhard (Germany)
Chair WG4 – Communications	Mr Shohei Ooka (Japan)
Chair WG5 – Radiation Protection	Ms Charlotte Kaps (Germany) and Mr David Gilbert (UK)
Co-Chairs WG6 – Condition Monitoring	Prof Len Gelman (UK) and Mr César Belinco (Argentina)
Chair WG7 – 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	Mr Fermín Gómez Fraile
	Mr Alexander Mullin
Pan-America	Mr César Belinco
	Mr Neal Couture

Obituaries

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

Dr Hae Lee

16 September 1932 – 5 December 2020

Dr Hae Lee, former President of the Korea Institute of Machinery and Materials (KIMM) and former President of KSNT, sadly passed away on 5 December 2020 in Seoul, Korea.

Dr Lee was one of the first-generation engineers educated abroad, most of whom contributed to the national restoration of science and technology in Korea after lagging behind many other nations due to the devastating Korean War. After obtaining his PhD degree from the Pennsylvania State University, USA, he established a career as a system dynamics engineer at Westinghouse in the 1970s and joined the Korea Atomic Energy Research Institute (KAERI) as a Vice President. This provided the opportunity for him to recognise the importance of NDT technology, as there were many new constructions of nuclear power plants in South Korea.

Dr Lee was one of the founding members for the inauguration of KSNT in 1980. Besides his tenure as the President of KSNT for two terms in the early 1990s, he was instrumental in bringing KSNT activities to the international arena. During the 14th WCNDT in New Delhi, India, he inspired his junior colleagues at KSNT with the idea that Korea could one day host the WCNDT. This initiative has been realised with the organisation of the 20th WCNDT and he was ready to attend the long-awaited event last June. However, it was postponed and, regrettably, he could not wait any longer.

Dr Lee's contributions to the nation include his role as Commissioner of the Nuclear Safety and Security Commission and other governmental positions, all of which led to him being honoured with the Peony Medal, the second highest order of civil merit in Korea.

Our deepest condolences are extended to the family, friends and colleagues of Dr Lee.



Dr Hae Lee

Eduard Stepanovich Gorkunov

A distinguished scientist and lecturer in the fields of magnetic phenomena, technical diagnostics and non-destructive methods and a talented, loved and respected leader and teacher, Eduard Stepanovich Gorkunov died on 25 October 2020 after a brave battle with coronavirus.

Eduard was a Professor, Doctor of Sciences, Head of the Institute of Mechanical Science of the Ural Branch of the Russian Academy of Sciences (URO RAN), Deputy Professor of Sciences and Chairman of URO RAN, and Honorary President of the Russian Society for Non-Destructive Testing and Technical Diagnostics (RSNTTD). Chair of the RAN Scientific Council on the problems of automatic diagnostic systems, Eduard was Editor-in-Chief of *Diagnostics, Resource and Mechanics of Materials and Structures* and a member of the Editorial Board of the journals *Defectoscopy* and *Control Diagnostics*. He was also a member of the Editorial Board of the journal *NDT Days*, published by the Bulgarian Association for Non-Destructive Testing (BGSNDT), as well as *Machines. Technologies. Materials*, published by the Scientific and Technical Union of Mechanical Engineering. He was recognised for his achievements in the science and application of NDT with state honours of the Russian Federation: the Order of Friendship, the Order of Honour and the Order of Labour Glory Third Class medal.

Eduard Gorkunov was a Member of Academia NDT International and an Honorary Member of the Israeli National Society for Non-Destructive Testing (ISRANDT). In the last 30 years of his life, Eduard Gorkunov was actively involved in the scientific and public life of the non-destructive testing specialists in Bulgaria. He was an Honorary Member of BGSNDT and an Associate Member of the Institute of Mechanics at the Bulgarian Academy of Sciences (BAS). His contribution to the development of cooperation between the Russian Federation and Bulgaria was recognised when he was awarded Bulgarian citizenship in 2020.



Eduard Stepanovich Gorkunov

Strategic Planning and Organisation

A draft updated Strategic Plan was due to be presented at the Annual Meeting in 2020. However, before finalisation, the impact of the COVID-19 pandemic meant that priorities changed. The IEC has continued to organise ICNDT according to the intent of the Strategic Plan, but taking due account of the COVID-19 situation.

ICNDT and the Regional Groups

Changes to the Constitution and Operating Procedures

There are no changes to the Constitution. An update to Operating Procedure OP11 'Membership Procedures' will be presented at the Annual Meeting in February 2021. This OP has been modified to properly integrate the process of joining ICNDT and the regional groups. In the future, applications will be channelled via the region and, when a member is admitted, they will gain membership of the region and ICNDT at the same time.

APFNDT (Asia-Pacific)

APFNDT Membership and Executive Committee

The Asia Pacific Federation for Non Destructive Testing (APFNDT) Executive Committee (AEC) meeting was held online. Regarding APFNDT's membership and organisation status, the current members and regional representatives are as follows:

Full Members	15 societies (2017-2020)
Associate Members	Eight societies (2017-2020)
Regional Representative Group One	Western Asia, Central Asia, South Asia – two members
Regional Representative Group Two	East Asia, South East Asia – four members
Regional Representative Group Three	Pacific and Oceania – two members

APFNDT Executive Committee:

President	Dr Norikazu Ooka (JSNDI)
Vice President	Dr Jong Po Lee (KSNT)
Past President	Dr B Venkatraman (ISNT)
General Secretary	Mr Les Dick (NZNDTA)
Treasurer	Mr Kevin Smith (ASNT)
President of the 16th Asia-Pacific Conference on Non-Destructive Testing (16th APCNDT)	Mr Paul Grosser (AINDT)
Auditor	Dr Sajeesh K Babu (NDTSS)
Secretariat	Mr Shohei Ooka (JSNDI)

APFNDT Task Groups (TGs)

The following six TGs were established in order to carry out specific activities:

TG1 Membership	Mr Kevin Smith (ASNT)
TG2 APFNDT Journal	Prof Jung-Ryul Lee (KSNT)
TG3 Communications	Mr Shohei Ooka (JSNDI)
TG4 Education and Training	Dr B Venkatraman (ISNT)
TG5 Certification	Mr Paul Grosser (AINDT)
TG6 Standards	Dr Takamasa Ogata (JSNDI)
TG7 NDE 4.0	Mr Pranay Wadyalkar (AINDT)

Current Activities of APFNDT (2020)

Further cooperation was requested from each country for the continuous publication of the newsletter and updates to the website. In addition, the Constitution and Operations Procedures were reviewed during an AEC meeting.

Regarding the 16th APCNDT scheduled for 2021 in Melbourne, Australia, it was decided that the event would be postponed until 18-22 October 2023, in order to conduct the conference in person without conflicting with other scheduled events. It was also reported that the 17th APCNDT, to be held in Hawaii, USA, in 2025, will proceed as planned. However, in regard to these events, the schedule is subject to change depending on the status of COVID-19.

There was also a discussion on the fact that the APFNDT membership web system will be linked to that of ICNDT, alongside the renewal of the ICNDT website. As the Secretariat of APFNDT will be spearheading this project as part of ICNDT WG4, certain costs were approved from the budget for this project.

Future Activities for APFNDT

Due to the current global pandemic, many operations for the TGs had to be cancelled, so new budgets will need to be made for all six TGs for 2020-2021. In addition, defined goals for each TG will need to be planned and implemented.

APFNDT will also need to revise any work projects and seek more collaborations with other organisations such as ISO, the International Institute of Welding (IIW) and NDT-related programmes within the International Atomic Energy Agency (IAEA).

Lastly, APFNDT signed a Memorandum of Understanding (MoU) with the Asian Welding Federation (AWF). This document was signed by Dr Norikazu Ooka, President of APFNDT, and Mr Sze Thiam Siong (Singapore), President of AWF. It is hoped that further activities can be pursued in both the welding and non-destructive testing fields in the Asia-Pacific region.

AFNDT (Africa)

Due to a combination of unrelated factors, a physical Annual General Meeting was repeatedly rescheduled in 2020, without any of the proposed dates being realised. Factors that diverted the efforts of the African Federation for Non-Destructive Testing (AFNDT) to hold an AGM in South Africa included the following:

- The COVID-19 pandemic
- Restructuring within the current Secretariat.

Subsequently, arrangements have been initiated to hold a virtual AGM as soon as possible. Items on the agenda include the following:

- Adoption of the new Constitution and structure
- Establishment of the Board and election of relevant signatories
- Establishment and adoption of related operating procedures
- AFNDT Strategy and Action Plan
- Regional Conference: 8th African Conference on Non-Destructive Testing (8th ACNDT) in Morocco.

The 7th ACNDT was held in Oran, Algeria, from 26-28 November 2016, under the leadership of Dr Mourad Zergoug.

The AFNDT faced challenges prior to the COVID-19 pandemic, which were exponentially amplified as a result of this event. It is hoped that these challenges can be addressed when it becomes safe to do so.

Dr Kamal Sahaimi, AFNDT President

Compiled for the ICNDT General Assembly, July 2020, by Harold Jansen, AFNDT Executive Secretary

EFNDT (Europe)

During 2020, the European Federation for Non-Destructive Testing (EFNDT) carried out many different actions, despite the restrictions facing all societies due to the COVID-19 pandemic. The Board of Directors (below) met several times online during the year.

President	Mr Fermín Gómez Fraile
Vice-President	Mr Alexander Mullin (Also Co-Chair EFNDT Certification Executive Committee (ECEC))
Elected Members	Mr Bento Ottone Alves (Also President ECNDT 2022)
	Dr Michele Carboni
	Prof Anton Erhard
	Mr David Gilbert (Also Communications Secretary)
	Mr Etienne Martin (Also Treasurer)
	Dr Yordan Mirchev
	Dr Pavel Mazal
Co-opted Directors (non-voting)	Mr Jan Verkooijen
	Mr Gerhard Aufricht
	Mrs Dominique Moussebois
Ex-officio Members (non-voting)	Mr René Klieber (Auditor)
	Dr Matthias Purschke (ECEC Co-Chair)
	Prof Peter Trampus (Past President)
General Secretary	Dr Emilio Romero

EFNDT has redefined the ten Working Groups and three Forums and these have started their work through virtual meetings and conferences. These ten groups are as follows:

- WG1 – Education
- WG2 – Radiation Protection and ADR
- WG3 – Condition Monitoring
- WG4 – Laboratory Accreditation
- WG5 – NDT for Public Safety and Security
- WG6 – NDT on Additive Manufacturing
- WG7 – Failure Analysis (Risk Analysis)
- WG8 – Human Factors
- WG9 – Ethics
- WG10 – NDT 4.0
- Forum for European National Aerospace NDT Boards (NANDTBs)
- Forum for Railway Industries
- Forum for Marine.

Additionally, a Working Group with the European Welding Federation (EWF) has been reactivated to complete the European NDT Engineer proposal.

An agreement has also been reached with the TIC Council Confederation of Inspection and Certification Organisations (TIC-CEOC) to work together on WG6 and WG10 matters.

Mr Fermín Gómez Fraile, EFNDT President

PANNDT (Pan-America)

The current board of the Pan-American Federation for Nondestructive Testing (PANNDT) is as follows:

President	Mr João Conte (ABENDI, Brazil)
Vice Chairman	Mr David Bajula (ASNT, USA)
Treasurer	Prof Jorge Amsler (AAENDE, Argentina)
Secretary	Mr Glenn Tubrett (CINDE, Canada)

PANNDT members held a virtual meeting in June 2020, while the Board held virtual meetings in May and October 2020. On these occasions, representatives reported an overall overview of the situation in their countries as well as the best practices on changing 'physically present' training to online training, examinations, etc.

The PANNDT Strategic Plan is being reviewed by the Board. The next PANNDT Conference is scheduled to take place in Niagara Falls, Ontario, Canada, in June 2023.

MRA, PCB and EQB

Multilateral Recognition Agreement (OP19)

- There are currently 47 signatories to Schedule 1 of the MRA, an increase of one during 2020. The latest registration is the New Zealand Non-Destructive Testing Association (NZNDTA).
- There are currently 18 PCBs registered under the MRA Schedule 2, an increase of one during 2020. The latest registration is TWI Certification Ltd, UK.

Personnel Certification Body Compliance Assessment (OP20)

- There were no registrations under OP20 in 2020.

Examination Question Bank

- 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 – Singapore (NDTSS).

Website/Journal/Publications

The ICNDT Secretariat has continued to provide updates to members through the website and the *ICNDT Journal* (one issue in 2020).

The German Society for Non-Destructive Testing (DGZfP) has continued to provide the platform for the ICNDT website.

Finance

The audited financial report for 2020 and the budget for 2021 are shown in the following pages.

Acknowledgements

ICNDT wishes to thank its Executive Committee members for their efforts during 2020 and acknowledges the support of the Secretariat provided by BINDT. Thanks are once again extended to the 20th WCNDT Organising Committee, particularly Professor Younho Cho, President, and Professor Ik-Keun Park, Chair, for their efforts in dealing with the complexities of organising and rearranging the 20th WCNDT. All volunteers working for their NDT societies have faced extra challenges this year and this work is much appreciated. It is vital to continue to create a safer world through the wider use of NDT and diagnostic technologies.

Dr Sajeesh K Babu, Chair, ICNDT

Balance at 31.12.2020		
	2020	2020
	Income (€)	Expenditure (€)
Opening balance	125,503.08	
Donation from Austrian Chamber of Commerce	500.00	
Donation from WCNDT	0.00	
Membership fees (new fee structure)	18,552.00	
Bank account Nr: 290-317-995/01 – interest	12.24	
PCB CA service (OP20)	0.00	
MRA Service (OP19)	6600.00	
EQB product: application fees (OP23)	0.00	
EQB update fees (OP23)	0.00	
Meeting expenses/Go to meetings Credit		-865.58
Bank account Nr: 290-317-99501 – cost		143.22
Bank expenditures for incoming fees		14.80
Printing costs		0.00
Office costs		280.00
PCB CA service costs (<i>system administration, insurance</i>) (OP20)		1,146.52
MRA/PCB – auditor payment (OP19)		8,640.00
EQB service costs (<i>administration and overheads</i>) (OP23 contingencies)		80.00
Professional service		7,640.00
Preparation of ICNDT monographs		0.00
Supplies (<i>ICNDT badges, flags, etc</i>)		828.24
Miscellaneous (<i>shipping, conference calls</i>)		0.00
Total	151,167.32	17,907.20
Allocation to reserves (31.12.2020)		133,260.12

Gerhard Aufricht, Treasurer, 8 January 2021, Vienna. Rev 1.

Financial Report – Draft Budget 2021

	Income (€)	Expenditure (€)
Opening balance (01.01.2021)	133,260.12	
Donation from Austrian Chamber of Commerce	500.00	
Donation from WCNDT	0.00	
Membership fees (new fee structure) (estimates assuming all pay)	22,792.00	
<ul style="list-style-type: none"> • AFNDT 350.00 • APFNDT 7408.00 • EFNDT 10,594.00 • PANNDT 4440.00 		
Bank account Nr: 290-317-995/01 – interest	30.00	
PCB CA service (OP20)	6000.00	
MRA service (OP19)	8000.00	
EQB product – application fees (OP23)	7500.00	
EQB update fees (OP23)	600.00	
Meeting expenses/Go to meetings		1500.00
Bank account Nr: 290-317-995/01 – cost		200.00
Bank expenditures for incoming fees		50.00
Printing costs		2000.00
Office costs		2000.00
PCB CA service costs (system administration, insurance) (OP20)		2000.00
MRA/PCB – auditor payment (OP19)		8000.00
EQB service costs (administration and overheads) (OP23 contingencies)		2000.00
Professional service		8000.00
Preparation of ICNDT monographs		0.00
Supplies (ICNDT badges, flags, etc)		2000.00
Miscellaneous (shipping, conference calls)		500.00
Proposed website upgrade		25,000.00
Total	178,682.12	53,250.00
Allocation to reserves (31.12.2021)		125,432.12

Gerhard Aufricht, Treasurer, 19 January 2021, Vienna. Rev 0.

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