



INTERNATIONAL COMMITTEE FOR
NON-DESTRUCTIVE TESTING

The World Organisation for NDT

Minutes of a meeting of the

ICNDT General Assembly and 41st ICNDT Meeting

Internet Meeting

Friday 31st July 2020

Participants:	S K Babu	ICNDT Chair	Voting
	B Alves	RELACRE (Portugal)	Voting
	D Andrews	CINDE (Canada)	Voting
	C Belinco	AAENDE (Turkey) and PANNDT	Voting
	M Carboni	AIPND (Italy)	Voting
	T Chady	PTBNIDT/SIMP (Poland)	Voting
	F Champigny	COFEND (France)	Voting
	J Conte	ABENDI (Brazil)	Voting
	N Couture	ASNT (USA) and PANNDT	Voting
	L Dick	NZNDT (New Zealand) and APFNDT	Voting
	T Erhard	DGZFP (Germany)	Voting
	P Fisch	SGZP (Switzerland)	Voting
	A Garcia Cueto	IMENDE (Mexico)	Voting
	F Gomez	AEND and EFNDT	Voting
	C Hakan Gur	TURK NDT (Turkey)	Voting
	J Hansen	BINDT President (UK)	Voting
	G Idinger	ÖGFZP (Austria)	Voting
	J Jingyuan	ChSNDT (China)	Voting
	M Kazakevich	USNDT (Ukraine)	Voting
	P Kecskes	MAROVISZ (Hungary)	Voting
	T Kek	SSNDT (Slovenia)	Voting
	O Kwon	KSNT (Korea)	Voting
	P Mazel	CNDT (Czech Republic)	Voting
	A Mullin	ICNDT WG1 Chair and EFNDT	Voting
	B Muthuramlaingam	NDTSS (Singapore)	Voting
	G Nicolescu	ARoEND (Romania)	Voting
	T Ogata	JSNDI (Japan)	Voting
	S Ooka	JSNDI (Japan) and APFNDT	Voting
	Ik Keun Park	KSNT President (South Korea)	Voting
	E Romero	AEND (Spain)	Voting
	V Syasko	RSNTTD (Russia)	Voting
	J Toivonen	Danish Society for NDT	Voting
	J Verkooijen	KINT (Netherlands)	Voting
	P Wadyalkar	AINDT (Australia)	Voting
	G Aufricht	ICNDT Treasurer	Non-Voting
	C Bird	ICNDT ICEC Secretary	Non-Voting
	A Blaauw	KINT President (Netherlands)	Non-Voting
	Y Cho	KSNT/WCNDT President	Non-Voting
	S K Choksi	ISNT (India)	Non-Voting
	J M Farley	ICNDT Past Chair	Non-Voting

D Gilbert	ICNDT General Secretary	Non-Voting
A Elezovic	COFREND (France)	Non-Voting
O Kwon	KSNT (Korea)	Non-Voting
P Pugalendhi	NDTSS (Singapore)	Non-Voting
C Rizzetti	AIPND (Italy)	Non-Voting
R Rodriguez	AEND (Spain)	Non-Voting
T Sakagami	JSNDT (Japan)	Non-Voting
C Bailey	BINDT (Minute Secretary)	Non-Voting

Apologies: H Jansen, SAIW (South Africa)

1. Welcome and background to the meeting

S Babu welcomed all to the online General Assembly and the 41st Annual Meeting. It was good to see such good participation at this virtual meeting which was a result of how COVID-19 has forced us to work in this 'new normal'. 16.1 million people worldwide have been affected by the pandemic with the highest numbers in America, Latin America, Europe and Asia. COVID-19 has affected us in a number of ways and has had a huge economic impact.

We were able to hold our Annual Meeting in Glasgow in January this year but then one month later the effects of the pandemic started to show in Asia, Europe and then USA. This did affect the planned WCNDT in Korea this year and a number of brainstorming meetings between the ICNDT and the KSNT organising committee were held to discuss how best to handle this.

On the 4th March 2020 it was decided to delay the WCNDT and on the 10th April there was an official announcement that the event was to be postponed. It was agreed that the existing officers would continue in their roles until the postponed WCNDT in 2021. Several members requested to have an online GA, hence this meeting today.

D Gilbert ran through the agenda and the meeting etiquette. It was pleasing to welcome so many people to the meeting today, all of whom were thanked for their participation.

All participants introduced themselves and a quorum was established.

Apologies were received from H Jansen due to ill health and everyone wished him well.

2. Memoriam

We had not been informed of any deaths since the last meeting.

3. Minutes of the 40th GA – June 2018

The minutes of the last GA has been circulated prior to the meeting. On a proposal by P Wadyalkar, seconded by L Dick, the minutes were approved as a true record.

Actions from the last meeting:

Action Ref. No.	Desc.	WHO	STATUS/COMPLETE BY
GA/2018-06-14/..			
1.	Send email to all societies regarding the new fee structure.	DJG	Complete.

Action Ref. No.	Desc.	WHO	STATUS/COMPLETE BY
GA/2018-06-14/..			
2.	Remove Kazakhstan, Latvia and Moldova from the list of ICNDT Members.	DJG	Complete.

Action Ref. No.	Desc.	WHO	STATUS/COMPLETE BY
GA/2018-06-14/..			
3.	Societies to advise the secretariat of any updates to the directory and website.	Societies	Ongoing.

4. Procedure for Voting and Quorum

M Farley advised that there was one vote for each regional assembly, one vote for each region and one vote for each member society. However, it was not expected that there would be many items to vote on at this meeting and normally voting is only carried out if information has been circulated in advance.

5. Annual Report 2019 (Balance and Budget)

The Annual Report was presented. S Babu advised that the report had been approved at the Annual Meeting in January. The draft budget for 2020 had also been approved and G Aufricht was invited to give some detail on the 2020 finances.

The 2020 Budget, Rev 1 and 2 were presented. G Aufricht pointed out that the income from the WCNDT 2020 has been postponed until next year so revision 2 of the budget shows zero income for WCNDT. Under the new structure, membership fees for 2020 were €22,792 which is more than the amount shown in Rev 1 of the budget. There was no change to the other items in the budget. The membership fees had been broken down into the different regions but not all fees for 2019 have been paid.

G Aufricht asked for acceptance of Rev 2 of the budget. The balance showed no meeting costs, income of €128,955 and expenditure of €9,282.

G Aufricht advised that a slight change to the accounting framework for 2021 will be considered. For example there will be a new cost of personal expenses for the new WG1 Secretary. A Mullin pointed out that C Bird is Secretary of ICEC and not WG1 so this expense is not related to WG1. A Mullin and G Aufricht to discuss outside of the meeting.

We have taken out the €30,000 donation from WCNDT and have taken out the membership fees through the new structure for the four regions.

S Babu advised that a balance of €152k was approved in January but our rolling forecast as of today is expected to be €120k due to the shortfall from WCNDT. Overall our finances are healthy and G Aufricht was thanked for keeping our finances on track.

6. Officers and Secretariat (2020-2021 update)

S Babu thanked BINDT for their support over the last four years in providing the secretariat to enable ICNDT to function efficiently. He also thanked all of the officers for their contributions over the period 2016-2020, as well as all members for their continued support.

The current officers will continue in role until WCNDT 2021.

In accordance with OP1, six months before the WCNDT next year, a request for nominations will be sent by email. Nominations will then be reviewed by the IEC,

7. ICNDT Awards and Honorary Memberships

ICNDT awards and Honorary Memberships will continue until the 2021 WCNDT.

S Babu thanked all Federations for their support and advised that we have 64 member societies and 4 regional members.

On behalf of all members, M Farley proposed a vote of thanks to S Babu who has worked very hard, sometimes under difficult circumstances, over the last four years and who has agreed to remain in post for at least one further year.

8. Membership

J Conte reported that there are 64 organisations within ICNDT; 55% from Europe, 27% from Asia Pacific, 12% from PAN America and 6% from the Africa region. A copy of J Conte's report is attached.

S Babu advised that there have been a lot of changes to the Operating Procedures and asked M Farley to brief the meeting on the changes. M Farley reported that the IEC has been reviewing and revising OP11 – Membership. We wanted to clarify that any society that is accepted into a region is automatically accepted into ICNDT but the starting point for the application would be through the region. The new text has now been agreed within the IEC and, after some small editorial changes, will be sent to members for approval by postal ballot.

G Aufricht asked if OP1 would also include clarification of members who do not pay their fees and what would happen to their membership. M Farley advised that the procedure does not currently say anything about non-payment of fees and he suggested that this be referred to the IEC for review.

The general view is that fees for membership for small societies have been reduced dramatically and we would expect these fees to be paid. If members do not pay, the immediate sanction would be no vote at the next GA and then soon after, removal of that society from membership. We will check to see where this is actually stated in our documentation. G Aufricht agreed that societies should commit to pay the €100 low membership fee or leave ICNDT. Under normal circumstances we would collect some membership fees in cash at WCNDT but unfortunately we will not have the opportunity this year.

S Babu thanked members from Europe, Africa, Asia and Pan America who have been supporting us financially. There will be a significant change for the growing states in Category D or E membership which will be really helpful. This will be acknowledged at the next General Assembly. We know that this is a difficult period but we would request all members to support ICNDT by paying their fees. If anyone is experiencing difficulties they are asked to let us know.

9. Regional Reports

9.1 AFNDT

The AFNDT report is attached.

9.2 APFNDT

N Ooka presented the attached report.

P Wadyalkar pointed out that the APFNDT wants to grow and accommodate more societies. He did not agree with the policy that if members do not pay their fees they should be asked to leave. We could cancel their voting rights but we should not cancel their membership if they cannot pay. P Wadyalkar requested that the IEC gives consideration to developing societies.

S Babu commented that it would be good if the regions that are close to member countries have good communications with them. He believed that the regions should have a role in communicating with the countries that are not paying.

9.3 EFNDT

F Gomez presented the attached report.

The EFNDT has 31 Full Members and 9 Associate Members.

M Farley asked F Gomez to explain what the RIMA project is. F Gomez advised that RIMA is a European Union's Horizon 2020 funded project on Robotics for Inspection and Maintenance. The project was launched last year and a lot of companies and countries are participating in it. Peter Trampus is the EFNDT contact for the project.

With regard to NDE 4.0, M Farley advised that there is an ICNDT specialist international group led by Dr J Vrana. An NDE 4.0 Ambassador has been appointed and an international conference, co-sponsored by ICNDT has been organised. M Farley was concerned that there were too many groups looking at NDE 4.0 and he asked all to support the ICNDT specialist group.

F Gomez believed that it was important to improve communication between ICNDT and the Federations or there could be problems with competition between the groups. F Gomez suggested some combined meetings with EFNDT and ICNDT perhaps every three months. M Farley commented that this is an important topic to work on internationally across the globe. There was going to be a large workshop on NDE 4.0 at the WCNDT so we will need to organise something leading up to the WCNDT next year.

D Gilbert advised that this point was taken on board at a meeting last week and things will change with improved communication being implemented.

P Wadyalkar advised that the first meeting on NDE 4.0 was held in the USA last week and it was reported that the sub groups i.e. EFNDT and APFNDT should all be reporting through ICNDT. M Farley was pleased to hear about all of this cooperation.

T Erhard advised that a small meeting was held last week and the conclusion of that meeting was that a roadmap will be created. Once the roadmap has been completed we will discuss together and see what is going on around the world. It was also agreed that national societies and regional members of ICNDT would participate as ambassadors.

D Gilbert commented that the people who drove this in the first place wanted as much publicity and dissemination of the information as possible which is understandable, but the coordination has been lacking until now.

9.3 PANNDT

J Conte presented the attached report on the activities of the PANNDT.

10. **Strategic Plan**

S Babu reported that the plan is updated every two years and was last updated in 2018. The ICNDT carries out the actions in accordance with the Strategic Plan. S Babu thanked all of the working group members and chairs for diligently responding to their actions.

We are now preparing Rev 11 of the Strategic Plan for the next four years and S Babu, M Farley and D Gilbert have been working on this which will be presented at the General Assembly next year.

We have established good relationships with other organisations such as ISO, IIW, IIE etc. and these relationships are important to keep our Strategic Plan up to date.

The ICNDT specialist group for NDE 4.0 is taking the lead and we are planning to hold a webinar this year.

Moving forward, we are also seeing an increasingly mobile workforce and the national certification schemes are very well recognised internationally and more and more sister societies are working closer together.

The ICNDT MRA continues to grow with more certification bodies being recognised under Schedule 2.

In terms of Action 5 of the Strategic Plan, NDT is surviving well in terms of the economic downturn but we are also seeing serious threats due to COVID-19.

Since 2018 we are seeing more close collaboration with the regional federations and more and more regional federations are supporting the smaller societies as well as the new fledgling societies. The ICNDT has a global role to play in this.

The SWOT analysis is being reviewed and will be presented to the IEC in the coming months. The first draft of Rev 11 of the Strategic Plan will be circulated by the end of this year for deliberation and approval at the next General Assembly.

WG1 – Qualification and Certification

A Mullin presented the attached report.

A Mullin was thanked on behalf of the ICNDT for chairing WG1 and for the excellent work that he is doing.

ICEC

C Bird presented the attached report.

All but three of the 25 PCBs have responded to the request to update their date. Y Cho advised that KSNT will be ready to move to Schedule 2 by the time of the next WCNDT in June 2021.

C Bird advised that CSWIP are also in the process of becoming a Schedule 2 member.

G Aufricht commented that we should be very careful when we talk about compromises such as paper verification during COVID-19. We should at least meet the process quality of the European accreditors. If we are weak, our customers may have problems. S Babu said that the compromise is not on the quality of the renewal paperwork, it is on the timeline and a six months extension has been granted to submit all of the necessary paperwork.

WG3 – Education and Research

The report presented by T Erhard is attached.

D Gilbert presented some information on the first International Conference on NDE 4.0 (<https://conference.nde40.com/>), being organised by DGZfP and co-sponsored by ICNDT. This conference is split into a virtual conference in 2021 (with invited presentations only) and an in-person conference in 2022, planned as follows:

- Virtual Conference April 14/15/20/21 2021 with four days of invited presentations on the subject of NDE 4.0 (3 hours each day including a panel discussion, 2 time slot options to choose from to accommodate all time-zones)
- In-person Conference April 26 - 28 2022 in Munich, the call for abstracts is online.

WG4 – Communications

S Ooka presented the attached report.

Progress is being made with the new website at an estimated cost of around €20k. It is hoped that the website will be open for testing at the end of this year with the full website up and running by the time of WCNDT.

T Erhard asked how many ICNDT meetings would be held after the WCNDT. With regard to TC135 SC7, S Ooka will be contacting KSNT to see if we can hold the TC135 meeting before or after WCNDT and the exact date will be confirmed.

WG5 – Radiation Protection and Safety

D Gilbert gave a brief report on the ISEMIR-IR project.

WG6 – CM and Diagnostic Technology

A report from C Belinco/L Gelman is attached. Anyone interested in joining WG6 was asked to let C Belinco know.

11. WCNDT

Y Cho presented the current status of WCNDT participation. There are still more than 1,000 abstracts submitted, which is record breaking.

D Gilbert asked if anyone who had originally submitted an abstract to the conference would have to resubmit. Y Cho advised that this is not the case.

As of today, there are a total of 25 sponsors.

The official title 'WCNDT 2020' will be the brand name.

We may still face further challenges this year and next year with the COVID-19 situation and we will need to come up with an alternative contingency plan as soon as possible.

The overall numbers for next year are still looking very promising and Y Cho thanked everyone for their strong support.

S Babu suggested that it would be a good idea to create a WCNDT 2021 link to the existing WCNDT 2020 website and he asked KSNT to look into this.

It is hoped that we will have a clearer position at the end of this year as to whether there will still be travel restrictions in place next year due to COVID-19.

12. APCNDT Conference 2021

P Wadyalkar presented the plans for the Asia Pacific conference in 2021, organised by AINDT. The rescheduling of WCNDT to five and a half months before the APCNDT Conference has had a big impact in terms of the number of delegates, exhibitors etc. The APCNDT was scheduled to be held in Melbourne from the 18th October 2021 and Melbourne is in the same Asia Pacific Federation region as Korea.

We are exploring options to postpone to October 2022 but we would have to involve the chairs of all national societies in the region so that the damage that would happen to AINDT will not also happen to other societies.

P Wadyalkar felt that the WCNDT organising committee should have invited the APFNDT Chair to every meeting where discussions on deferring the WCNDT had taken place, then both countries and federations would be less effected compared to the mammoth challenge that APFNDT may have in October 2021.

APFNDT was willing to hold a joint conference with WCNDT because we were in the same region. AINDT was prepared to make some adjustments but the lack of consultation in a timely manner was not beneficial to all of the parties involved.

The AINDT as part of the APFNDT is committed in that our actions will not lead to any hardship, difficulties or challenges to any other international conference or NDT body. The AINDT will consult with all other federations and NDT bodies to ensure that our rescheduled dates do not clash or overlap with other events or force them to postpone their conferences.

As the EFNDT Conference is scheduled to be held in Lisbon from 6-10 June 2022, the AINDT would cancel the APCNDT until after this event so that there is negligible effect on the EFNDT or the Portuguese Society of NDT and we will show this same consideration to all other societies.

The worst case scenario will be that the APCNDT will go ahead as planned in October 2021 and we will do our best to invite, encourage and entice most world leaders in NDT to visit Australia in 2021. However, unless a COVID-19 vaccination is in place for all, P Wadyalkar believed that it will be difficult for people to enter other countries next year.

For the AINDT to go ahead with the APCNDT next year, we will incur major losses and may even have to move the event to a cheaper venue in another city. The AINDT is a small society and we do not want to go bankrupt or end up with huge conference losses because of the decision to hold the WCNDT just a few months before our event.

P Wadyalkar went on to say that, although we have been affected by the rescheduled WCNDT we will do our best to accommodate all countries and ensure that other societies do not go through the same hardship that the AINDT may go through. P Wadyalkar requested that ICNDT and federation leaders should learn lessons from this and each of the four federations should prepare procedures for the future to ensure that conferences do not occur in the same region for at least two years. If something like this cannot be avoided, then the WCNDT and the local federation should have a provision that they accommodate each other and run a joint conference rather than individual conferences. There should also be a provision in our OP for a decision on conference cancellation. Under no circumstances should a society have to endure hardship due to the actions of another society.

With regard to the position of WCNDT 2020, S Babu advised that the decision is made every four years, two cycles in advance, which meant that the decision on the 2020 WCNDT was made in 2012. The decision to hold the APCNDT in Australia was decided in 2013 so there was a one year gap. The decisions on the regional conferences are made by the federations. S Babu pointed out that the ICNDT World Conference is encouraged to move around the different regions.

We do have to be careful as the conference cycles are very close other than Europe where there is a two-yearly cycle between EFNDT and ICNDT conferences.

The COVID-19 pandemic was unavoidable but it was acknowledged there should have been closer dialogue between AINDT and KINT to ensure that these discussions happened. KSNT is responsible for the profit and loss of the conference so has to take into account the views of those who have already paid money. We will however look at our OPs to see if improvements can be made. The OPs are on the ICNDT website and S Babu invited all society presidents to look at these and consider any improvements for discussion at the next GA.

Y Cho commented that he was very sorry to hear the comments from P Wadyalkar and the AINDT but nobody expected this pandemic situation to happen. We had to consult with all of our returning clients

and major sponsors and they were supportive of postponing the WCNDT by a year. KSNT will put in a lot of effort to support and help the AINDT conference.

D Gilbert supported everything that S Babu had said and reiterated that it was a very difficult, unprecedented situation which the WCNDT organising committee was faced with. The committee really did endeavor to try and take everything into consideration and we believed that the correct dialogue was taking place. We were also informed that the exhibitors and sponsors would support both the WCNDT and APCNDT event. We also believed that many of the delegates would continue to support both events. All of this was taken into account and D Gilbert guaranteed that everything was done in the best interests of all concerned. We will be looking closely at our OPs with this in mind and we perhaps need to have a risk management system in place so that we are prepared for this eventuality happening again.

L Dick remarked that the APFNDT was not consulted on regarding the postponement of the WCNDT. We all have a lesson to learn and we need to write some procedures around how to deal with this in the future.

P Wadyalker apologised if his message was taken in the wrong way. The intention was not to tell KSNT that they had done something wrong.

M Farley pointed out that there must still be concern as to whether either conference can go ahead next year and we may need to think about having an alternative plan to include both WCNDT, Australia and EFNDT because it may be that none of these events are able to physically happen.

13. Reports from international societies.

Presentations were given by a number of societies as to how they are dealing with the COVID-19 situation. The following nations' societies presented:

Argentina
Australia
Austria
Brazil
Canada
China
Czech Republic
France
Germany
India
Iran
Italy
Japan
Netherlands
Romania
Russia
Singapore
Spain
Sweden
Switzerland
UK
USA

The presentations are available to download from the ICNDT website.

14. Reports from ISO/TC135

Mr Shohei Ooka presented a report on the activities of ISO TC/135 – copy attached.



African Federation of NDT – AFNDT 2019 / 2020 Regional Report



Doc Ref. No. : HJ / 004 / 2020

Date: 29 July 2020

Dear Dr. Babu and ICNDT Executive Council,

African Federation of NDT : Regional Report 2019 / 2020

1. Current Full Membership / Participation

The following countries are represented on the African Federation for NDT:

- | | | | |
|-------|---------------------|--|--|
| 1.1. | Morocco | Moroccan Confederation for Non Destructive Testing
(Comend) | Dr S Kamal
AFNDT President |
| 1.2. | Algeria | Research Center in Industrial Technologies
(CRTI) | Dr M Zergoug
Immediate Past President |
| 1.3. | South Africa | South African Institute Non-destructive Testing
(SAINT) | H Jansen
AFNDT Ex. Secretary |
| 1.4. | Cameroon | Hydrocarbures-Analyses-Controles
(HYDRAC) | B Moussa |
| 1.5. | Ghana | Ghana Atomic Energy Commission
(GAEC) | E Diawuo |
| 1.6. | Kenya | Kenya Bureau of Standards
KEBS | M Gatari / S Ndeti |
| 1.7. | Sudan | Sudan Atomic Energy Commission
(SAEC) | O T Osman |
| 1.8. | Tunisia | Mechanical & Electrical Industries Technical Centre
(Cetime) | K Bouaziz / A Kharrat |
| 1.9. | Libya | Welding Center Tripoli - Advanced Occupational Centre for Welding Technology | |
| 1.10. | Angola | National Technological Centre
(CTN) | |
| 1.11. | Mauritius | Mauritius Standards Bureau
(MSB) | L Bhujohory |
| 1.12. | Egypt | Quality Control – Egypt | A H Hassanein |
| 1.13. | Uganda | | D Mabungizi |

New membership request received:

- 1.14. Nigeria Institute of Non-destructive Testing (Nigeria) F Nakashima
(Previous communication via Mr U Duaka)

The Southern African Institute of Welding (SAIW), an affiliate member of ICNDT, is the secretariat of the AFNDT.

Note: **Bold** indicates those countries that signatories to the existing constitution dated April 2014

2. Regional representation

In order to facilitate participation and encourage co-operation, the following sub-regional structure has been adopted since 2016:

Sub-regions: North Africa **Sub-regional Leader** Algeria

Countries: Algeria, Libya, (Mauritania), Morocco, Egypt and Tunisia

Sub-regions: East Africa **Sub-regional Leader** Sudan

Countries: Sudan, Burundi, Kenya, Rwanda, Ethiopia, Eritria, Somalia, South Sudan and Uganda

Sub-regions: Central Africa **Sub-regional Leader** Cameroon

Countries: Cameroon, the Central African Republic, Chad, Democratic Republic of the Congo, Equatorial Guinea, Sao Tomi and Gabon

Sub-regions: West Africa **Sub-regional Leader** Ghana

Countries: Ghana; Benin; Burkina Faso; Cape Verde; Gambia; Guinea; Guinea-Bissau; Ivory Coast; Liberia; Mali; Niger; Nigeria; Senegal; Sierra Leone and Togo

Sub-regions: Southern Africa **Sub-regional Leader** South Africa

Countries: South Africa; Angola; Botswana; Lesotho; Madagascar; Malawi; Mauritius; Mozambique; Namibia; Seychelles; Swaziland; Tanzania; Zambia and Zimbabwe

3. Annual General Assembly

Due to a combination of non-related factors, a physical Annual General Assembly (AGM) was repeatedly rescheduled, without any of these dates being realized. Factors that diverted the efforts of holding an annual general assembly in South Africa included the following:

- a) COVID-19 pandemic
- b) Restructuring within the current secretariat

Subsequent arrangements have been initiated to hold a virtual AGM prior to the end of 2020. Items on the agenda include the following:

- a) Adoption of the new constitution and structure
- b) Establishment of the Board and election of relevant signatories
- c) Establishment and adoption of related operating procedures
- d) AFNDT Strategy and action plan
- e) Regional Conference : 8th ACNDT Conference – Morocco

The 7th ACNDT (26 to 28 November 2016) was held in Oran, Algeria, under the leadership of Dr Zergoug.

4. Impact of COVID19

The COVID19 pandemic has highlighted the deficiencies within the current AFNDT, regional NDT activities and infrastructure relating to communication and operations, increasing the criticality of an AGM. Some of the items that require attention include the following:

a) Localization of skills

Most African countries utilize foreign NDT personnel to perform testing, due to the limited local personnel compliant with international code / standard requirements or due to contractual stipulations. The restriction of international travel, as a result of the COVID 19 pandemic, has had a significant impact on statutory / maintenance inspections, because foreign personnel were no longer allowed to travel internationally. These inspections therefore had to be postponed or even cancelled, resulting in additional burden on already overstressed infrastructure. In most instances these inspections were regarded as essential services and consequently would not have been affected by the relevant lockdown conditions was it not for the need of foreign personnel.

Therefore the localization of skills is critical to ensure that national infrastructure is tested and maintained in order to facilitate ongoing delivery of essential services relating to water and sanitation; power generation & distribution and transport. Related economic sectors such as petrochemical, mining and fabrication, while not necessarily considered as essential, adds to the economic growth within a region and needs to be maintained until lockdown conditions allows for these sectors to become active again.

b) Training

Training of personnel has been performed via a direct face-2-face interface between lecturer and students at various approved training organizations. Due to travel restrictions and personal distancing requirements, this option of transferring knowledge and skills, no longer prevails and a large number of training organizations faces the very real possibility of closures.

The anticipated accommodation of a blended learning approach within ISO 9712 has provided a much needed life-line to training bodies that are in the process of adopting a technology based theoretical interaction followed by a limited face-2-face practical interaction with students. The consequent advantages relating to travel and accommodation as well as scheduling and time allocation can therefore be unlocked.

c) Qualification & Certification

Qualification and certification processes, requiring an assessment / examination have also been influenced. Various options are being investigated in this regard, with the help of other regional federations, but again, a sustainable national qualification and certification body would be the end-goal in each of the AFNDT countries in which NDT forms an integral part of engineering.

d) Statutory recognition of NDT

While statutory recognition of Inspections / Inspectors is in place for some of the regional countries, recognition of Non-Destructive Testing & Personnel remains a challenge. The NDT industry within South Africa has embarked on this process and positive outcomes are anticipated within the not too distant future.

5. Conclusion

The AFNDT faced challenges prior to the COVID19 which was just exponentially amplified as a result of the pandemic and has to be resolved prior to the end 2020.

Kind regards

Dr S Kamal
AFNDT President - Morocco

Compiled by Harold Jansen
AFNDT Executive Secretary

Regional Report at ICNDT GA

Report of APFNDT

Asia Pacific Federation for Non-Destructive Testing

www.apfndt.org

Dr. Norikazu Ooka

President of APFNDT

31 July 2020

Web meeting

Members of APFNDT

- Full Members , 15 societies (2017 - 2020)
- Associate Member, 8 societies (2017 – 2020)
- Regional Representative Group One - Western Asia, Central Asia, South Asia-2 members
- Regional Representative Group Two - East Asia, South East Asia-4 members
- Regional Representative Group Three - Pacific, Oceania 2 members

1. Members of APFNDT

Full Members , 15 societies (2017 - 2020)

AINDT - The Australian Institute for Non Destructive Testing

ASNT - The American Society for NDT

ChSNDT - The Chinese Society for Non Destructive Testing

CINDE - Canadian Institute for NDE

ISNT - The Indian Society for Non-Destructive Testing

JSNDI - The Japanese Society for Non-Destructive Inspection

KSNT - The Korean Society for Nondestructive Testing

MSNT - The Malaysian Society of Non Destructive Testing

NDTSS - Non-Destructive Testing Society (Singapore)

*Board Members

Members of APFNDT

NZNDTA - New Zealand Nondestructive Testing Association Inc.

RSNTTD - The Russian Society for Non Destructive Testing and Technical
Diagnostics

SNTCT - The Society for Nondestructive Testing and Certification of Taiwan
(SNTCT)

PSNDT - Philippine Society for Nondestructive Testing, Inc.

AZNDT (Azerbaijan NDT Society) 2017~

SNDT - Society for Non Destructive Testing, Sri Lanka

*Board Members

Members of APFNDT

Associate Member, 8 societies (2017 – 2020)

BSNDT - The Bangladesh Society for Non Destructive Testing

ISNDT - Indonesian Society for Non Destructive Testing

MSNDT - Mongolian Society for Non Destructive Testing

PASNT - Pakistan Society for NDT

Under formation - Myanmar Society for Non Destructive Testing

TSNT - Thai Society for Non Destructive Testing

VANDT - Vietnam Association for Non Destructive Testing

SNNT – NDT Board, Sri Lanka

Report of APFNDT

AEC & GA Meeting, Singapore

5-6 December, 2019 , Marina Bay Sands

General APFNDT matters

- * • Membership status
- * • Finances
- * • Communications & Website
- * • Operating Procedures

* Task Groups activities

* Conference matters

- * • Update on 16th APCNDT Preparation ,Melbourne, 2021
- * • 17th APCNDT Preparation, Hawaii, 2025

Tasks for next Board meeting and GA

General Business- IAEA Support

APFNDT Events & Meeting Schedule

Report of APFNDT

Main Activities for 2019-2021 in APFNDT

TG1 Membership

TG2 APFNDT Journal

TG3 Communications and website

TG4 Education and Training

TG5 Certification

TG6 Standards

TG7 NDE 4.0 (New TG from 2020)

- * To discuss the detailed plans and their budget at AEC meeting held in Tokyo and Singapore ,2019

Report of APFNDT

A Signing Ceremony –Memorandum of Understanding between APFNDT and AWF(Asian Welding Federation) regarding NDT in SINCE 2019

APFNDT President:
Dr. Norikazu Ooka
AWF President:
Mr. Sze Thiam Siong

Executive Members
of APFNDT and
AWF

December 4, 2019



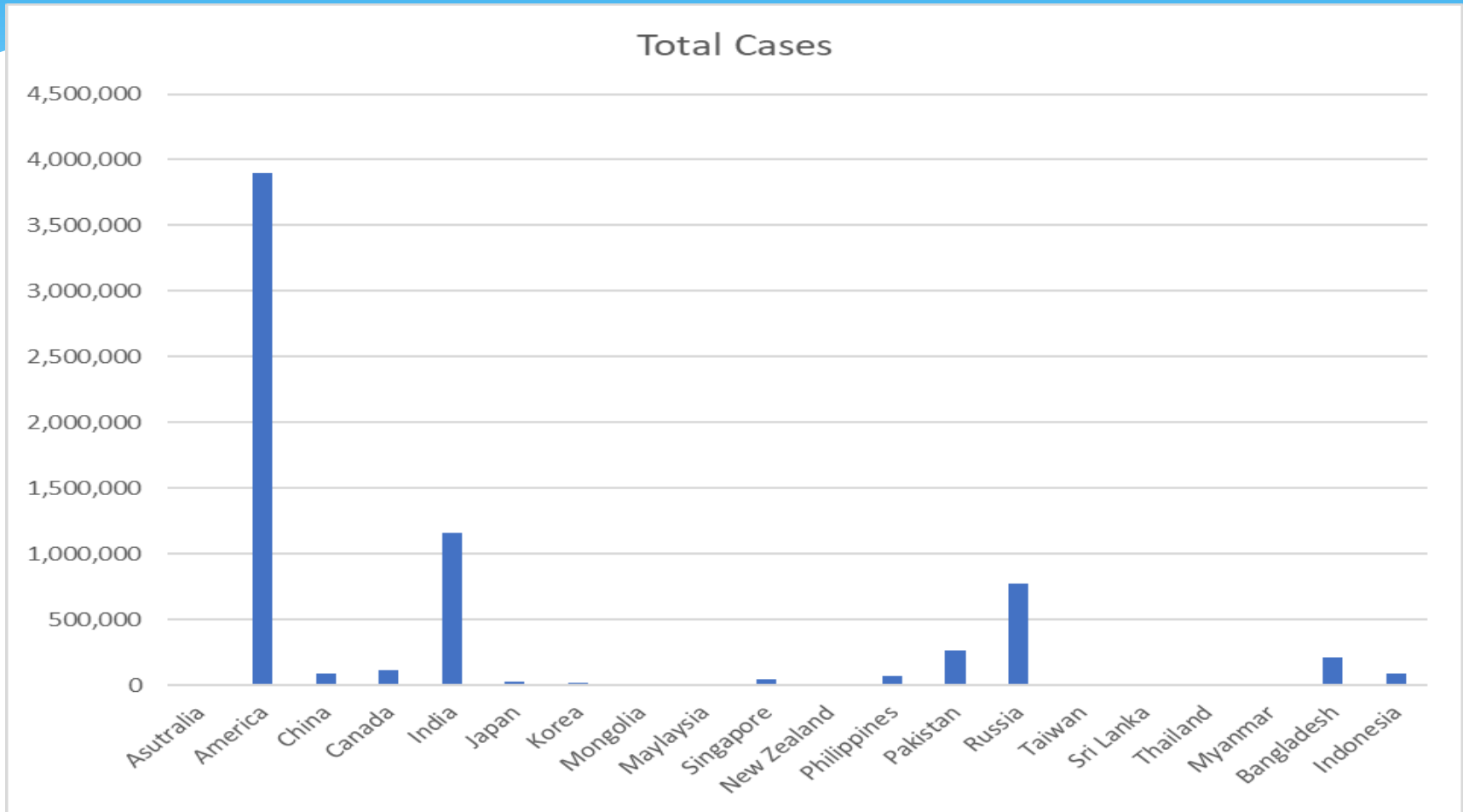
Report of APFNDT

NDT Events in APFNDT

- ASNT Annual Conference 2020, ASNT, November 10-13,2020
- Malaysia International NDT Conference and Exhibition 2020(MINDTCE'20), MSNT ,December 7-8,2020
- The Gulf Nondestructive Testing Expo 2020(GNDT Expo2020), ASNT, December 8-10 2020
- ASNT Research Symposium2021, ASNT ,April 26-29,2021
- The 20th World Conference on Non-Destructive Testing (WCNDT 2020), KSNT, May 31-June 4,2021
- 7th US-Japan NDT Symposium, ASNT- JSNDI, July 5-9,2021
- The 16th Asia Pacific Conference for Non-Destructive Testing , (APCNDT 2021), AINDT, October 18—22,2021
- ASNT Annual Conference 2021, ASNT ,November15-18,2021
- The 17th Asia Pacific Conference for Non-Destructive Testing , (APCNDT 2025), ASNT, 2025

Report of APFNDT

Total Cases of COVID-19 in the area of APFNDT(1)



Report of APFNDT

Total Cases of COVID-19 in the area of APFNDT(2)

Country	Total Cases	Total Deaths
Asutralia	12,069	123
America	3,900,000	143,000
China	85,921	4,653
Canada	111,000	8,858
India	1,155,920	28,113
Japan	25,096	985
Korea	13,816	296
Mongolia	287	0
Maylaysia	8,800	123
Singapore	48,035	27
New Zealand	1,555	22
Philippines	68,898	1,835
Pakistan	265,000	5,599
Russia	777,000	12,427
Taiwan	455	7
Sri Lanka	2,724	11
Thailand	3,250	58
Myanmar	341	6
Bangladesh	207,000	2,668
Indonesia	88,214	4,239

Schedule on APFNDT Meetings

Year	Event	Place	AEC	Board Meeting	General Assembly
2016	WCNDT 2016	Munich	Yes	Yes	No
2017	15 th APCNDT	Singapore	Yes	Yes	Yes
2018	ECNDT	Gothenburg, Sweden	yes	yes	
2019	Regional Event AEC	Singapore Tokyo	Yes Yes	Yes	Yes
2020	WCNDT Postponed to 2021	Seoul	Yes	Yes	No
2021	16 th APCNDT	Melbourne	Yes	Yes	Yes
2025	17 th APCNDT	Hawaii	Yes	Yes	Yes

Regional Report EFNDT, GA 31/7/2020

Since the last ICNDT meeting, EFNDT, whose members in all European countries have been confined, during the last 5 months, in their homes in varying degrees and usually teleworking, have made no progress on our projects.

Even so, the following actions have been carried out:

- The president has contacted with the president of the EWF (Michal Kubica.) to resume work between both federations to continue with the preparation of the European NDT Engineer
- The president and the treasurer have contacted with Antonio Puerto (PO of the RIMA Project) and with Christophe Leroux , Secretary, to solve administrative problems
- Attendance at the Jury Days of the RIMA project (Peter Trampus and Jan Verkooijen) and continuous participation in the project
- Two meetings of the AFNDTB to carry out the extensions of the EN4179 certificates due to COVID-19 (extended until October-November)
- Support two webinars sponsored by AIPND, AEND, AAENDE as well as other private organizations on NDT in structures and NDT in structures that have suffered earthquakes.
- Contact with Dr. Johannes Vrana, into NDE 4.0 Ambassadors towards NDE 4.0,, about NDE 4.0 for best-practice sharing and creation of a European roadmap and to propose the creation of an EFNDT Working Group to the Board of Directors. In the next future is planned the 1st International Conference on NDE 4.0
Bento Alves has been invited to participate in this project in the beginning April and Bento participate in 3 first meetings: 29th April, 27th May and 8th July
- Peter Trampus has launched and NDT session with the ESIS Virtual Summer School project. The project is ongoing

Fermin Gomez Fraile
President



SAVE
THE
DATE



13th ECNDT
6-10 JUNE 2022 | LISBON

EUROPEAN CONFERENCE ON NON-DESTRUCTIVE TESTING



13th ECNDT
6-10 JUNE 2022 | LISBON

WWW.ECNDT2022.ORG



13th ECNDT
6-10 JUNE 2022 | LISBON

EUROPEAN CONFERENCE ON NON-DESTRUCTIVE TESTING



SAVE
THE
DATE



SCIENTIFIC PROGRAMME

SCIENTIFIC COMMITTEE

Artur Lopes Ribeiro – Instituto Superior Técnico
Helena Geirinhas Ramos – Instituto Superior Técnico
Jaime Santos – FCT-Univ. Coimbra
Mário Santos – FCT-UNL
Miguel Machado – FCT-UNL
Telmo Santos – FCT-UNL

POOL FOR SCIENTIFIC COMMITTEE FROM FULL MEMBERS AND ASSOCIATE MEMBERS:

- 106 recommendations for reviewers



SPONSORSHIP & EXHIBITION

- 14 submitted application forms
- 1 Platinum
- 2 Bronze
- 11 Exhibitors



SEE YOU IN LISBON!

WWW.ECNDT2022.ORG

Call for papers on September 15th

Online Submissions opens on October 1st



WWW.ECNDT2022.ORG

CONTACT INFORMATION

AIM GROUP INTERNATIONAL – LISBON OFFICE
EMAIL ecndt2022@aimgroup.eu
TEL +351 21 324 50 62



41st MEETING (On-line General Assembly)

ICNDT

July 31st, 2020

PANAM – REGIONAL REPORT

PANNDT



PANAMERICAN FEDERATION OF NDT

MEMBERS / MIEMBROS

PAÍS/COUNTRY/PAÍS	SIGLA/ACRONYM/SIGLA	RAZÃO SOCIAL/BUSINESS NAME/RAZON SOCIAL
Argentina	AAENDE	Asociación Argentina de Ensayos No Destructivos y Estructurales
Bolivia	ASBOSENDIC	Asociación Boliviana de Soldadura, Ensayos No Destructivos, Inspección y Corrosión
Brasil	ABENDI	Associação Brasileira de Ensaio Não Destrutivos e Inspeção
Canada	CINDE	Canadian Institute for Non-destructive Evaluation
Chile	ACHISEND	Asociación Chilena de Soldadura Inspección y Ensayos no Destructivos
Colombia	ACOSEND	Asociación Colombiana de Soldadura y Ensayos No Destructivos
Costa Rica	*Costa Rica	Instituto Tecnológico de Costa Rica
Ecuador	ESPOL	Escuela Superior Politecnica del Litoral
Estados Unidos / United States	ASNT	The American Society for Nondestructive Testing Inc
México	IMENDE A.C.	Instituto Mexicano de Ensayos No Destructivos, A.C.
México	AMEXEND A.C.	Asociación Mexicana de Ensayos no Destructivos Asociación Civil
Peru	APEND	Asociación Peruana de END
Uruguay	AENDUR	Asociación Uruguaya de Ensayos No Destructivos



MANAGEMENT BOARD

- President: João Conte (Abendi - Brazil)
- Vice Chairman: Dave Bajula (ASNT - USA)
- Treasurer: Jorge Amsler (AAENDE - Argentina)
- Secretary: Glenn Tubrett (CINDE – Canada)



PANNDT ACTIVITIES

- **May 21st - 11st. Management Board meeting - main topic: nomination of Mr Neal Couture, executive director of ASNT, as a representative of the region together with Cesar Belinco, AAENDE;**

- **June 18th – 12th PANNDT Meeting : online, 15 participants, main subjects:**
 - a) **Current status of the societies due to the Covid-19 pandemic;**
 - b) **Chilean society awaiting the normality to become official;**
 - c) **Annual fee structure payment for ICNDT/PANNDT;**
 - d) **Next COPAEND – Niagara Falls, Canada, 2023.**



Abendi

João Antonio Conte

Diretor Executivo

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Tel. (11) 5586-3173 | 3174



Abendi



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The World Organisation for NDT

ICNDT Working Group 1 on Qualification and Certification

Report to GA

31st July 2020

Alexander MULLIN

WG 1 Chair

WG 1 Membership

Currently – 23 members representing the following countries:

Austria, Australia, Brazil, Bulgaria, Canada, China, Denmark, Germany, France, Japan, Iran, India, Republic of Korea, Russia, Singapore, Spain, South Africa, Turkey, Ukraine, UK, USA

2020 – 2 new members:

**Yordan Mirchev
(Bulgaria)**

Améla Elezovic (France)



The World Organisation for NDT

Name	Affiliation	Comments
Alexander Mullin (Chair)	Russian Society for NDT	mullin@ndt-rus.ru
Gerhard Aufricht (1) or Gerald Idinger (2)	Austrian society for NDT	aufricht@mittli.at or g.idinger@oegfzp.at
Harold Jansen	South African IW	harold.jansen@saiw.co.za
João Rufino Teles Filho	Brazilian Society for NDT	rufino@rufinoteles.com.br
P.K. Yuen	Canadian Institute of NDE	puikei.yuen@canada.ca
Matthias Purschke (1) or Ralf Holstein (2)	German Society for NDT	pm@dgzfp.de or ho@dgzfp.de
Shohei Ooka	Japanese Society for NDI	shohei@jsndi.or.jp
Patrick Fallouey	Honoured member	Patrick.Fallouey@orange.fr
Rodolfo Rodríguez	Spanish Society for NDT	r.rodriguez@aend.org
Dave Bajula	American Society for NDT	dbajula@acuren.com
Sajeesh Kumar Babu	NDT Society (Singapore)	skbabu@ndtss.org.sg
Vitaly Radko	Ukrainian Society for NDT	Garwardv@i.ua
Keith Arcus	Australian Institute for NDT	kcarcus1@bigpond.net.au
Jennifer Cook	British Institute for NDT	jennifer.cook@bindt.org
Kyung-Cho Kim	Korean SNT	robertkc.kim@gmail.com
Jingyuan Ji	Chinese Society for NDT	mib8888@163.com
Cemil Hakan Gur	Turkish NDT Society	chgur@metu.edu.tr
Mirmajid Ghaemi	Iranian Society for NDT	mirmajidghaemi@gmail.com
Diwakar D. Joshi	Indian Society for NDT	diwakarj@gmail.com
Yordan Mirchev	Bulgarian Society for NDT	mirchev@imbm.bas.bg
Améla Elezovic	COFRIEND	a.elezovic@cofrend.com

Observer status

Mike Farley	Past Chairman, ICNDT	mfarleyconsulting@btinternet.com
Colin Bird	ICEC Secretary	colinbird@outlook.com
David Gilbert	General Secretary ICNDT	David.Gilbert@bindt.org
Patrick Brisset	IAEA	p.brisset@iaea.org
Peter Milligan	Australian Institute for NDT	csm@aindt.com.au
Norikazu Ooka	Japanese Society for NDI	nori-ooka@rio.odn.ne.jp
Darcy Corcoran	ISO TC135 SC7	darcy@qccecanada.com

WG 1 Meetings

2016 – Munich, Germany - 11 June 2016

2017 – Vienna, Austria - 5 June 2017

2017 – Singapore - 15 November 2017

2018 – Gothenburg, Sweden - 13 June 2018

2019 – Mexico-city – 22 October 2019

2020 – Seoul – 07 June 2020 – cancelled

2021 – Incheon – May 2021 – date TBD

WG 1 Terms of reference

WG 1 Terms of reference was updated in October 2019.

Main amendments:

New statement: *Three successive absences, except in case of emergency, i.e. illness, lead to the cancellation of membership and to the nomination of a new member.*

Deletion of Note 1. *Membership of the ASNT President and incoming ASNT President should be automatic so that continuity will be maintained*

Action plan.

Part of ICNDT Strategic plan Last update – 22 October 2019

INTERNATIONAL COMMITTEE FOR
NON DESTRUCTIVE TESTING



Working Group 1
on Qualification
and Certification

ICNDT ACTION PLAN 3: QUALIFICATION AND CERTIFICATION Task Group: WG1 Task Group Leader: Alexander Mullin

Document title	Revision Date	Revised by	Scope of revision	Circulated to WG1
WG1-03_Action Plan	2009-08-17	JR Thompson	Synchronised with ICNDT Strategic Plan (revision 3A). NOTE: the ICNDT strategic plan is now at Rev 5	2009-08-24
WG1-03_Action Plan	2010-01-04	JR Thompson	Superficial review following the first WG1 meeting in Yokohama, and prior to an IEC virtual meeting in January 2010	2010-01-04
WG1-03_Action Plan	2010-01-18	JR Thompson	Reformatted and rationalised following IEC Teleconference	2010-09-12
WG1-03_Action Plan	2010-09-12	WG1	Reviewed and revised at Vienna meeting as required by WG1 ToR	2010-09-28
WG1-03_Action Plan	2011-06-10	WG1	Reviewed and revised at Valencia meeting as required by WG1 ToR an IEC	2011-07-01
WG1-03_Action Plan	2012-11-19	A Mullin	Reviewed and revised at Luton meeting	2012-11-19
WG1-03_Action Plan	2013-11-20	A Mullin	Reviewed and revised at Mumbai meeting	2013-11-20
WG1-03_Action Plan	2014-10-06	A Mullin	Reviewed and revised at Prague meeting	2014-09-23
WG1-03_Action Plan	2015-10-30	A Mullin	Reviewed and revised at Salt Lake City meeting	2015-10-08
WG1-03_Action Plan	2016-06-16	A Mullin	Reviewed and revised at Munich meeting	2016-06-06
WG1-03_Action Plan	2017-06-05	A Mullin	Reviewed and revised at Vienna meeting	2017-06-05
WG1-03_Action Plan	2017-11-15	A Mullin	Prepared and revised at Singapore meeting	2017-10-19
WG1-03_Action Plan	2018-06-13	A Mullin	Prepared and revised at Gothenburg meeting	2018-05-30
WG1-03_Action Plan	2019-10-22	A Mullin	Prepared and revised at Mexico meeting	2019-10-18

Workshops on qualification and certification

2014 – Prague

2016 – Munich

2017 – Singapore

2020 – Seoul – **cancelled**

2021 – Incheon - **planned**

Workshop on Qualification and Certification of NDT personnel
Prague, Friday Oct 10th, 9.00 to 12.00
Joint Chairs: Alexander Mullin (WGL) and Patrick Fallovey (ICEG)

Time	Speaker	Topic
9.00 - 9.15	Mike Farley, Chairman	Scene-setting
9.15 - 9.30	Nicole Scott	Comparison of implementation of ISO 9712 by different PCBs
9.30 - 9.45	Roger Engelbart	New CP106
9.45 - 10.00	Alexander Mullin	Issues raised in current ICNDT review of standard ISO 9712:2012
10.00 - 10.15	Rodolfo Rodriguez	Value/importance of experience before certification
10.15 - 10.30	S K Babu	Comparison & review best practice for renewal/ recertification

ICNDT Workshop
"NDT + CM training and certification – current issues"
WCNDT, Munich
17th June, 09:00-12:00

Time	Speaker	Subject
9:00 - 9:05	M Farley	Scene-setting
9:05 - 9:15	M Farley	Degrees of harmonisation
9:15 - 9:50	T Clazing	Update on ASNT views on ACCP/ISO9712, and specialist certification in USA (AWS, ANDE, etc)
9:50 - 10:10	M Turnbow	ANDE-Performance Based Training and Experience
10:10 - 10:25	S K Babu	Recommendation for Administering Practical Examination
10:25 - 10:40	N Scott	Authorized qualification body: Functions and responsibilities. Best practice.
10:40 - 10:50	T Clazing	Structured practical experience in career progression

ICNDT
The World Organisation for NDT

ICNDT Workshop on NDT Laboratory Accreditation & Personnel Certification
16th of November 2017 (Thursday)
09:00 – 12:30
Singapore
Marina Bay Sands Hotel

Time	Speaker	Subject
10:55 - 11:00		
11:10 - 11:15		
11:25 - 11:30		
11:35 - 11:40		
11:50-12:00		
12:00		

ICNDT Workshop
"NDT + CM training and certification – current issues"
WCNDT, Seoul
12th June 2020, 08:00-12:00

Time	Speaker	Subject
08.00 - 08.05	M Farley	Scene-setting
08.05 – 08.25	M Farley	Degrees of harmonisation
08.25 – 08.50	D Corcoran	Revision of ISO 9712. Current situation
08.50 - 09.15	R Holstein	ISO/TS 25107:2019
09.15 - 09.35	A Mullin	ISO/TS 25108:2018.
09.35 - 09.55	D Bajula	Update on ASNT views on ACCP/ISO9712, and specialist certification in USA
09.55 - 10.20	M Turnbow	Update on ANDE-Performance Based Training and Experience
10.20 - 10.45	S K Babu	Harmonisation and recognition- risk and opportunity analysis
10.45 - 11.10	J Moody	Practical Marking Considerations
11.10 - 11.35	P K Yuen	On-line examination. Advantages and disadvantages
11.35 - 11.50	P Brisset	IAEA developments on qualification and certification of NDT personnel
11.50-12.00	M Farley	Closing



25th of May 2020. On-line Workshop

Main topics

- COVID situation in the country
- Government restrictions impacting Training and Certification
- PCB actions to date, including interactions with Accreditation Bodies
- PCB plans
- Views on need for ICNDT Guidelines and what should be included

Workshops on qualification and certification

25th of May 2020. On-line Workshop

Presentations given by:

A Mullin	(WG1 Chair)	Russian Society for NDT
Keith Arcus		Australian Institute for NDT
Gerhard Aufricht		Austrian society for NDT
João Rufino Teles Filho		Brazilian Society for NDT
P K Yuen		Canadian Institute of NDE
Jingyuan Ji		Chinese Society for NDT
Améla Elezovic		France (COFREND)
Ralf Holstein		German Society for NDT
Shohei Ooka (oral prsnt)		Japanese Society for NDI
Diwakar D. Joshi		Indian Society for NDT
Claudia Amelia		Portugal RELACRE
Sajeesh Kumar Babu		Singapore NDT Society
Harold Jansen		South African Institute of Welding
Kyung-Cho Kim		South Korean SNT
Rodolfo Rodríguez		Spanish Society for NDT
Prathiba Wimalasiri		Sri Lanka NDT Society
Jennifer Cook		UK British Institute for NDT
Dave Bajula		USA American Society for NDT
Colin Bird		ICEC secretary
Fermín Gómez Fraile		EFNDT President



25th of May 2020. On-line Workshop

General Situation

All PCBs who took part in the workshop have extended the period of validity of the certificates and addressed how this extension is to be controlled.

All the PCBs are considering both the long term and short term issues including acceptance of distance learning and ways to conduct **examinations via electronic distancing** providing compliance with ISO/IEC 17024 requirements in regards of **integrity, independence and impartiality.**



25th of May 2020. On-line Workshop

Follow Up Work

WG1 will organise and consider how to help with the short and long term measures associated with the Covid-19 situation.

The considerations to include interpretation of the governing standards and how these standards can be addressed with respect to distance learning and examination processes.

TC 135 SC7 meetings

November 16 & 17, 2017, Singapore

SC7 meeting

- Comments to ISO 9712:2012 were considered
- Seven Task Groups for identified items for the revision of ISO 9712 were established

June 16-19, 2018, Gothenburg, Sweden

SC7 meeting

- Continuation of consideration of comments to ISO 9712:2012
- Work of Task Groups on revision of particular items

ISO 9712 revision process

TC 135 SC7 meetings

October 28-30, 2018, Houston, Texas, USA

SC7 meeting

- Continuation of consideration of comments to ISO 9712:2012
- Work of Task Groups on revision of particular items

March 4-6, 2019, Munich, Germany

Task Group Convenors meeting

- Compilation of the first version of CD ISO 9712 (Committee Draft)



TC 135 SC7 meetings

June 17-19, 2019, Edmonton, Canada

SC7 meeting

- Request to ISO in order to extend the project timeframe for the development of ISO 9712 from 36 months to 48 months
- Consideration of the first version of CD ISO 9712 (Committee Draft) prepared by Task Groups

October 15-16, 2019, Paris, France

Task Group Convenors meeting

- Review of CASCO comments
- Compilation of the final version of CD ISO 9712 (Committee Draft)



ISO 9712 revision process

TC 135 SC7 meetings

January 2020

- CD ISO 9712 ballot has been be launched

March 2020

- DIS 9712 was approved
- 392 Comments were received
- CASCO Comments were received

June 24 and 30, 2020

Task Group Convenors on-line meeting

- Consideration of comments to CD ISO 9712
- Consideration of CASCO comments



ISO 9712 revision process

TC 135 SC7 meetings

Next on-line SC7 meeting - September 22-24, 2020

Aim of the meeting - final draft for the DIS ballot

The publication target date is September 2021

WG1 participation in ISO 9712 revision process

***Representatives of WG1
in TC 135 SC7 Task
Groups were nominated.***

Task Groups – ISO/TC 135/SC 7

Task Group #1

- **Sajeesh Kumar Babu, ICNDT**

Task Group #2

- **Dave Bajula, ICNDT**

Task Group #4

- **PK Yuen, ICNDT**

Task Group #5

- **Harold Jansen, ICNDT**

Task Group #6

- **Peter Milligan, ICNDT**

Task Group #7 – Convenor, **Alexander Mullin**

- **Ji Jingyuan, ICNDT**



WG1 participation in ISO 9712 revision process

ICNDT view on revision of ISO 9712:2012 was prepared and submitted to TC 135 SC7.

Template for comments and secretariat observations					Date: 15/08/2017	Document: ISO 9712:2012 (Ed 4)	Project: Systematic review
MB/ NC ¹	Line number (e.g. 17)	Clause/ Subclause (e.g. 3.1)	Paragraph/ Figure/ Table (e.g. Table 1)	Type of comment ²	Comments	Proposed change	Observations of the secretariat
ICNDT				ge	ICNDT submission to ISO TC135 SC7 for Review of ISO9712:2012 (Ed 4) Technical comments (te) are from ICNDT WG1 report and General ones (ge) from ICNDT's review of proposals made at the European NDT conference June 2017.		
ICNDT	97	3.3		te	It is recommended for CB to define criteria for acceptance of qualification of supervision personnel in order to meet requirements of paragraph 3.25. It is recommended that qualification of supervision should be at least ISO 9712 Level 2 or equivalent (e.g. ASNT Level 2 or ASNT SNT TC 1A level 2).		
ICNDT	140	3.25		te	WG1 feels that non-certified supervisor is not suitable for qualified supervision. However if it is the case CB should require from applicant to submit CV of candidate's non-certified supervisor. It is recommended for CB to define requirements to experience of non-certified supervisor. Experience should be not less than Level 3 experience duration according to Table 3 of ISO 9712:2012 for the method concerned.		
ICNDT	154	3.27		ge	Increasing difficulty for existing practitioners to maintain continuity of experience, especially those who have multiple certifications. Re-examine whether a requirement for continuity of experience is necessary, when it may be that recent relevant experience is more important		
ICNDT	201	5.2.2	b)	te	It is recommended for CB to use syllabi from ISO/TR 25107 as minimum requirements to draft specifications for training courses. ASNT CP-105 and IAEA TecDoc 629 could be taken as equivalent. In case of using another documents CB should show equivalence with ISO/TR 25107 prior to use.		

1 MB = Member body / NC = National Committee (enter the ISO 3166 two-letter country code, e.g. CN for China; comments from the ISO/ICS editing unit are identified by **)
2 Type of comment: ge = general te = technical ed = editorial

page 1 of 7



WG1 participation in ISO 9712 revision process

ICNDT comments to CD ISO 9712 was prepared and submitted to TC 135 SC7.

MB/ NC ¹	Line number	Clause/ Subclause	Paragraph/ Figure/Table	Type of comment ²	Comments	Proposed change	Observations of the secretariat
ICNDT -665			Notes in Table 2	Te	Not clear	As Table 3.	
ICNDT -667			Table 3 note	Te	Not clear	Suggest " One day duration is at least seven hours, which can be achieved on a single day or by accumulating hours"	
ICNDT -133		7.3.3.4		Te	Not clear	Replace "weighted by a maximum of" by " counted as up to"	
ICNDT -239		10.2.1		Te	Wording is not correct. A renewal application cannot both be on or prior to the date of expiration	Replace with "The renewal application <i>should</i> be made to the certification body before the date of the expiration of the certification and <i>shall</i> be no later than 12 months after the date of expiration of the certificate. No exceptions are permitted beyond this 12 month period of grace.	
ICNDT -270		13	Annex F	Te	Further discussion needed on whether this is Informative or Normative		

Thank you!



The World Organisation for NDT

Report from the ICNDT Certification Executive Committee (ICEC) for 2020

Compiled by Colin Bird. Secretary ICEC

Presented by Harold Jansen, Chairman ICEC

Contents

- ICNDT MRA Schedule 1 Members
- ICNDT MRA Schedule 2 Registrants
- Certification Bodies which are under renewal process
- New Certification Body Applications
- PCBA status
- Member challenges
- Current activities for Conformity Assessment - OP20

ICNDT Multilateral Recognition Agreement (MRA) - Current Status of Schedule 1

46 National Societies/Institutes, which are Members/Associate Members of ICNDT have signed the ICNDT MRA Schedule 1:

Argentina, Australia, Austria, Belgium, Brazil, Bulgaria, Canada, China, China Taiwan, Colombia, Croatia, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, India, Iran, Israel, Italy, Japan, Kazakhstan, Lebanon, Malaysia, Mexico, Morocco Netherlands, Poland, Portugal, Romania, Russia, Serbia, Singapore, Slovakia, South Africa (SAINT & SAIW), South Korea, Spain, Sri Lanka, Switzerland, Turkey, Ukraine, UK and Uzbekistan.

They have *thereby agreed to promote the recognition of the certification awarded by the Personnel Certification Bodies (PCBs) which are registered with ICNDT under Schedule 2.*



ICNDT Multilateral Recognition Agreement (MRA)- Recent changes to signatories

Recent signatories to MRA Schedule 1 (National Societies)

- Lebanon October 2018
- Morocco June 2018

ICNDT Multilateral Recognition Agreement (MRA) - Current Status of Schedule 2

***17 Personnel Certification
Bodies (PCBs) are registered
with the ICNDT MRA
Schedule 2:***

IRAM Argentina,
AINDT Australia,
ABENDI Brazil,
ChSNDT China,
TUV Nord Czech, s.r.o.
Inspecta Sertifiointi Finland,
SECTOR Cert Germany,
Malaysia,
IMENDE Mexico,

UDT-CERT Poland,
RELACRE Portugal
RTC Russia,
SAIW Certification South
Africa,
NDTSS Singapore,
NCNDT Sri Lanka.
PCN UK,
Ukr-SRINDT Ukraine



ICNDT Multilateral Recognition Agreement (MRA)- Recent Changes to Registrations

Recent new registrations to MRA Schedule 2 (Personnel Certification Bodies)

- IRAM – Argentina June 2019
- TUV – Czech June 2019
- Department of Skills- Malaysia September 2019
- IMENDE – Mexico September 2019

Recent renewals of registration to MRA Schedule 2 (PCBs)

- UKrSRINDT Ukraine January 2020
- RELACRE Portugal March 2020
- RTC Russia March 2020
- AINDT Australia July 2020
- PCN UK July 2020
- UDT-CERT Poland July 2020
- NDTSS – Singapore July 2020
- Inspecta Sertifiointi Finland August 2020

2019/20 was a very busy year for ICEC MRA review teams.

THANK YOU for your hard work and dedication



The World Organisation for NDT

ICNDT Multilateral Recognition Agreement (MRA)- Other activities

Schedule 2 Applications in Progress

- Inspecta Sertifiointi Oy Finland

Schedule 2 Continuity Check (Form C)

- All MRA Schedule 2 members have been contacted to complete form C and register their continuity of registration.
- To date Malaysia and China have sent me their documentation.
- The OP19 form C does not apply to OP20 registrations such as China and Brazil. This needs to be discussed.

ICNDT Conformity Assessment of Personnel Certification Bodies (OP20)

- In situations where independent accreditation of PCBs is not available or considered sufficient, ICNDT may offer a conformity assessment to support an application for registration under the MRA Schedule 2.
- There were no conformity assessment audits required during 2019 or 2020. However one audit will be required for ChSNDT in 2021. It is suggested that an auditor is appointed in December 2020.

PCBA Status

Currently 13 out of 25 PCB have responded to the request to update their data. They have been reminded and informed that the update is required by 30th June 2020. They have been reminded again and we plan to wait to the end of July for responses.

One or two of the responses have relied that the data is up to date but the number of certificates has not changed. This had been questioned but no response to the question of no change.

WG3 REPORT

At 41st MEETING (On-line General Assembly)

Friday, 31 July, 2020 by Prof. Younho Cho

ACTIVITY PROGRESS REPORT

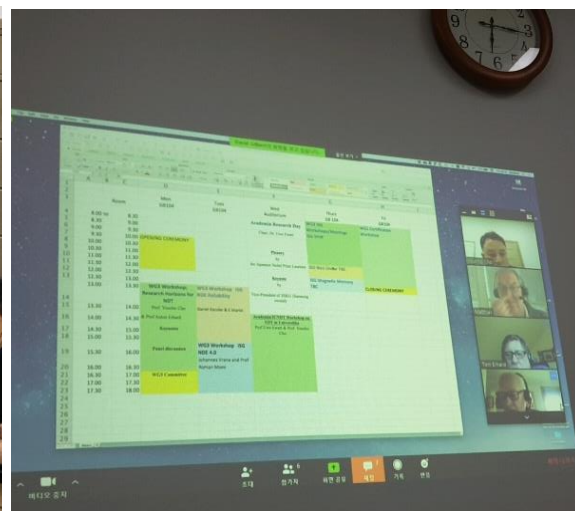
WG3 Workshop/Meetings Preparation

- 1) After discussion at the meeting on 27th Feb, 2020 with ICNDT IEC members, we drafted a program of WG3 workshop during WCNDT 2020.
- 2) We made a decision that Academia Research Day Joint Session for Higher Education NDT will be held on Wed, 2nd June, 2021 at WCNDT 2020.
- 3) The WG3 off-line meetings at ASNT 2020 Annual Conference and COFREND DAYS 2020 have been canceled due to COVID-19.
- 4) The 1st WG3 Committee Meeting will be on Mon, 31st May, 2021 during WCNDT 2020.

ISO/TC135 New International Standards

- 1) We are trying to expand a close cooperation with ISO/TC135
- 2) We are boosting an approval for New International Standards from ISO/TC135.

Pictures





INTERNATIONAL COMMITTEE FOR
NON-DESTRUCTIVE TESTING

The World Organisation for NDT

ICNDT Workshop at 20th WCNDT

Monday 31 May 2021 13.00 to 18.00

Room 302-304, Songdo Convensia, Incheon, Korea

Opening Session;

RESEARCH HORIZONS ON NDT EDUCATION & RESEARCH

Objective: this ICNDT workshop will explore the future needs and directions of research in Non-destructive testing and Diagnostic Technologies (including Condition Monitoring and Structural Health Monitoring).

Co-Chairs: Prof. Younho Cho (Korea) & Prof Anton Erhard (Germany)

	13.00-13.15	Registration	15m	
	13.15-13.25	Co-chairs Introduction	10m	<i>Prof Younho Cho & Prof Anton Erhard</i>
1	13.25-14.45	Keynote USA	20m	Prof. Joseph L. Rose, Pennsylvania State University "A Breakthrough in Long Range Nondestructive Testing"
2	14.45-15.05	Keynote Korea	20m	Prof. Sung-Jin Song from Sung Kyun Kwan University "NDE of the future – Cyber Physical System"
3	14.45-15.05	Keynote USA	20m	Prof. Leonard J. Bond Iowa State University "NDT Horizons – a USA perspective"
4	15.05-15.25	Keynote India	20m	Prof Krishna Balasubramanian "NDT horizons – an Indian perspective"
5	15.25-15.45	Keynote UK	20m	Prof. Robert Smith from BINDT/RCNDE "5, 10 and 20 year horizons for NDT research in UK"
6	15.45-16.05	<i>Break</i>	20m	
7	16.05-16.30	Panel session: ISG leaders	50m	ISG leaders as panellists (8 people)
		Break Time	15m	
	16.45-17.45	WG3 Committee Meeting	1 hour	Committee + ISG leaders
	17.45-18.00	Freshen up	15m	



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MISCELLANEOUS

-
-
-



INTERNATIONAL COMMITTEE FOR
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ICNDT WG 4 Communications

Report

2020 ICNDT General Assembly (Web Meeting)
2020-07-31

ICNDT WG 4, Chair, Shohei Ooka





INTERNATIONAL COMMITTEE FOR
NON-DESTRUCTIVE TESTING

The World Organisation for NDT

Member of ICNDT WG 4, Communications

Chair	Mr. Shohei Ooka	JSNDI
Past Chair	Mr. David Gilbert	BINDT
Member	Ms. Sharon Bond	CINDE
Member	Mr. Stefan Cullmann	DGZfP
Member	Ms. Garra Liming	ASNT
Member	Mr. Don Courchesne	CINDE
Member	Mr. Antonio Aulicino	ABENDI
Observer	Dr. Mike Farley	Chair- IAC
Observer	Dr. SK Babu	Chair-ICNDT



INTERNATIONAL COMMITTEE FOR
NON-DESTRUCTIVE TESTING

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Main Activities of ICNDT WG 4

- ◆ *ICNDT Journal*
 - ✓ *Issues 4 times a year*

- ◆ *ICNDT Website*
 - ✓ *Update and maintain*
 - ✓ *Under the discussion of Renewal*

- ◆ *SNS (Facebook, Linked-In, Instagram, Twitter, etc.)*
 - ✓ *Facebook is open*
 - ✓ *Others are in progress*

- ◆ *Other*
 - ✓ *ICNDT Photo Competition for WCNDT 2020*



INTERNATIONAL COMMITTEE FOR
NON-DESTRUCTIVE TESTING

The World Organisation for NDT

New ICNDT Website is in Process

ICNDT
The World Organisation for NDT

Search

Contacts LOGIN

Top What is NDT? What is ICNDT? ICNDT Membership ICNDT Activities WCNDT & ICNDT Award Events

The International Committee for Non-Destructive Testing

ICNDT is a non-profit organisation devoted to the international development of the science and practice of Non-Destructive Testing in conjunction with individual NDT Societies and recognised continental groupings of NDT Societies. The ICNDT is registered as a legalised Association with its seat in Vienna, Austria.

NEWS | ICNDT Photograph Competition2020 - 13 February 2020 NDT Stories in Pictures



INTERNATIONAL COMMITTEE FOR
NON-DESTRUCTIVE TESTING

The World Organisation for NDT

What you can do with new website.

- ◆ *On time ICNDT Activities*
- ◆ *On time NDT Events around the world*
- ◆ *My page for Society Members*
- ◆ *Society Status*
- ◆ *Pay ICNDT Membership Fees*
- ◆ *Much more*



INTERNATIONAL COMMITTEE FOR
NON-DESTRUCTIVE TESTING

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ICNDT Photograph Competition 2020 - 13 February 2020 "NDT Stories in Pictures" Photo Competition

The screenshot shows the official website for the ICNDT Photograph Competition 2020. At the top, the ICNDT logo is visible. The main heading reads "ICNDT Photograph Competition 2020 'NDT Stories in Pictures'". Below this, there is a section titled "Prize" which states: "Win the prize of 'One Free Full Registration' for the 20th World Conference on Non-Destructive Testing (ICNDT 2020) from 8 to 12 June 2020 in Seoul, Korea". A prominent black box indicates the deadline: "Deadline: 31 March 2020". There are two main sections: "Commencement" and "How to enter". The "Commencement" section says: "The prize will be processed by the end of April 2020 and awarded through the ICNDT 2020 with a certificate of commendation." The "How to enter" section says: "To enter the ICNDT Photograph Competition 2020, please fill in all items and send it with one photograph to the secretary of ICNDT 2020 at secretariat@icndt.org". At the bottom, there is a footer with the text: "For further information, visit www.icndt.org or contact ICNDT 2020 at secretariat@icndt.org".

The deadline for entries was 31 March 2020. It is now postponed to 28 February 2021, and the winner will be announced at the end of March 2021, with a view to a certificate of commendation being presented to the winner at the World Conference in Seoul.



INTERNATIONAL COMMITTEE FOR
NON-DESTRUCTIVE TESTING

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*Thank you for
your attendance and cooperation*



The World Organisation for NDT

**ICNDT WG5:
Radiation Protection &
Safety**

ISEMIR-IR

- ISEMIR is the acronym for the Information System on Occupational Exposure in Medicine, Industry and Research.
- ISEMIR-IR is a web-based tool for non-destructive testing companies carrying out industrial radiography (IR). ISEMIR-IR is developed as a tool for regular data collection and analysis of occupational doses for individuals in IR, and for the use of this information to improve occupational radiation protection.
- It assists IR facilities in benchmarking their arrangements in radiation protection and safety, and hence in promoting of, implementation of optimisation of occupational radiation protection.



- In 2019 in the IAEA General Conference Resolution GC(63)/RES/7, Member States requested the Secretariat to promote ISEMIR to strengthen the safety of workers who have a risk of exposure to ionizing radiation in the fields of medicine and NDT services and recommended that Member States provide data on occupational exposure to the ISEMIR programme.
- For the purpose to promote and assist the development of ISEMIR-IR the ISEMIR-IR Working Group (WG) has been established.
- One in-person meeting and 3 webex meetings held in 2019; one in-person and one webex meeting 2020 and another to be held 5 August.

WG5: Radiation Protection & Safety

- In order to increase the number of active users in the system, as well as enhance users' experience, two new surveys are being launched: one for regulatory bodies and one for NDT companies.
- New impetus in promoting ISEMIR-IR and encouraging completion of the surveys.
- WG5 basically consists of the ISEMIR WG members but others are invited.
David Gilbert (UK); Charlotte Kaps (Germany); Richard van Sonsbeek (Netherlands); Francisco Da Silva (Brazil).



INTERNATIONAL COMMITTEE FOR
NON-DESTRUCTIVE TESTING

The World Organisation for NDT

Brief report to the ICNDT from the ICNDT's Working Group 6

Condition Monitoring

- **Conferences**

The WCNDT 2021

WG6 is actively supporting WCNDT 2021 by organizing multiple structured sessions. WG6 is preparing to publish the best CM papers from the WCNDT in the International Journal of CM and the best-case studies in the International Newsletter Condition Monitor.

Some members of WG6 are planning to make CM/NDT presentations at the WCNDT 2021.

The Third World Congress on CM, 2021

WG6 is actively supporting WCCM 2021 by organizing multiple structured sessions and by making NDT/CM plenary keynote talks. WG6 is preparing to publish the best CM papers from the WCCM in the International Journal of CM

and the best case studies in the International Newsletter Condition Monitor.

- **CM/NDT publications**

Preparation of a special issue of the International Journal of CM to cover CM/NDT topic is still an ongoing task.

WG6 was involved in selection, review and publication of the best CM papers from the WCNDT 2016 and WCCM 2019 for the International Journal of CM.

WG6 was involved in selection, review and publication of the best CM case studies from the WCNDT 2016 and the WCCM 2019 for the International Newsletter Condition Monitor

- **CM/NDT Continuing Professional Development**

WG6 was organized CPDs, related to CM/NDT, in Glasgow, at CM/MFPT 2019

- **Joint CM/NDT cross-forums**

WG6 was organized “invited overview speakers”, covering CM/SHM/NDT in Glasgow, at CM/MFPT 2019

WG6 was involved in organizing “invited overview speakers” and plenary keynote speakers, covering CM/SHM/NDT, at World Congress on CM, 2019

- **TC 108 SC5**

Argentina offers to discuss in WG6 all standards of the TC 108 SC5 “Condition Monitoring & Diagnostics”.

As that committee has a strong relationship with some aspects of assets management (there is a liaison officer between both ISO TC committees, TC 108 and TC 251 “Asset Management”), the offer is also to discuss at WG 6 the subjects of TC 251, related with condition monitoring.

The next WG 6 meeting in person will be at WCNDT 2021.

Co-Chairs of the WG 6

Cesar Belinco and Len Gelman



International Organization for Standardization

Report of ISO/TC 135

- Non-destructive testing -

ICNDT General Assembly

July 2020

Web meeting



Structure of ISO/TC 135



ISO/TC 135 *Non-destructive testing*

SC 2

SC 3

SC 3/WG 5 *Ultrasonic test equipment*

SC 3/WG 6 *Inspection using guided waves*

SC 4

SC 5

SC 5/WG 8 *Gamma scanning*

SC 6

SC 7

SC 8

non-destructive testing

SC 8/WG 2 *NDT-IRT-General principles*

SC 8/WG 3 *NDT-IR-System and equipment*

SC 8/WG 4 *NDT-IR-Guidelines for examination of electrical installations*

SC 9 *Acoustic emission testing*

Japan (JISC)

Surface methods

South Africa (SABS)

Ultrasonic testing

Germany (DIN)

Germany (DIN)

Germany (DIN)

Eddy current testing

France (AFNOR)

Radiographic testing

Germany (DIN)

Austria (ASI)

Leak testing Japan (JISC)

Personnel qualification

Canada (SCC)

Infrared thermography for

Korea (KATS)

Japan (JISC)

China (SAC)

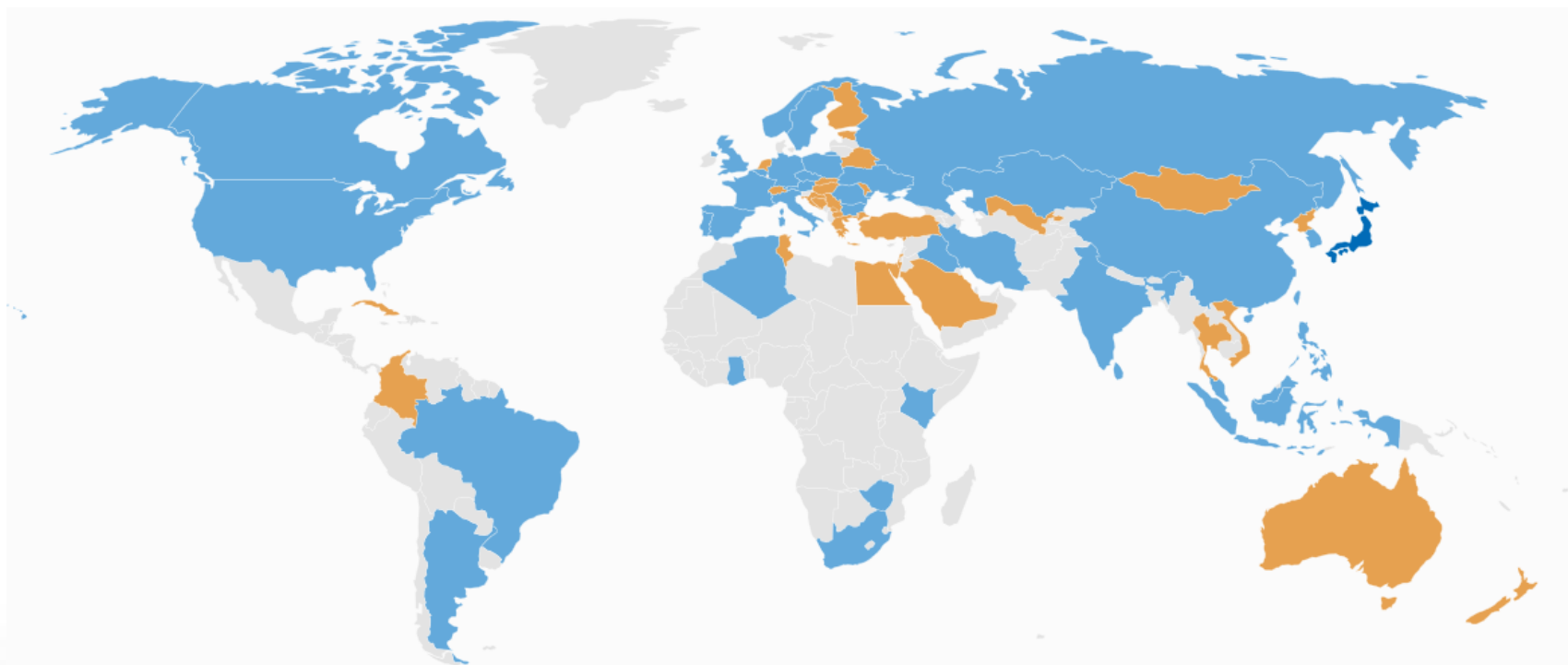
India (BIS)

China (SAC)

Members of ISO/TC 135



Secretariat (JISC, Japan) ■



Participating Members (40) ■

Observing Members (28) ■

Liaisons with other organizations



(1) Special liaison to comply with the Vienna agreement (1)
CEN/TC 138

(2) Liaisons (within ISO and with IEC) (16)

ISO/CASCO

ISO/TCs (12): TC 11, TC 17, TC 20, TC 26, TC 44, TC 58,
TC 67, TC 79, TC 107, TC 112, TC 119, TC 261

SCs (2): TC 85/SC 6, TC 108/SC 5

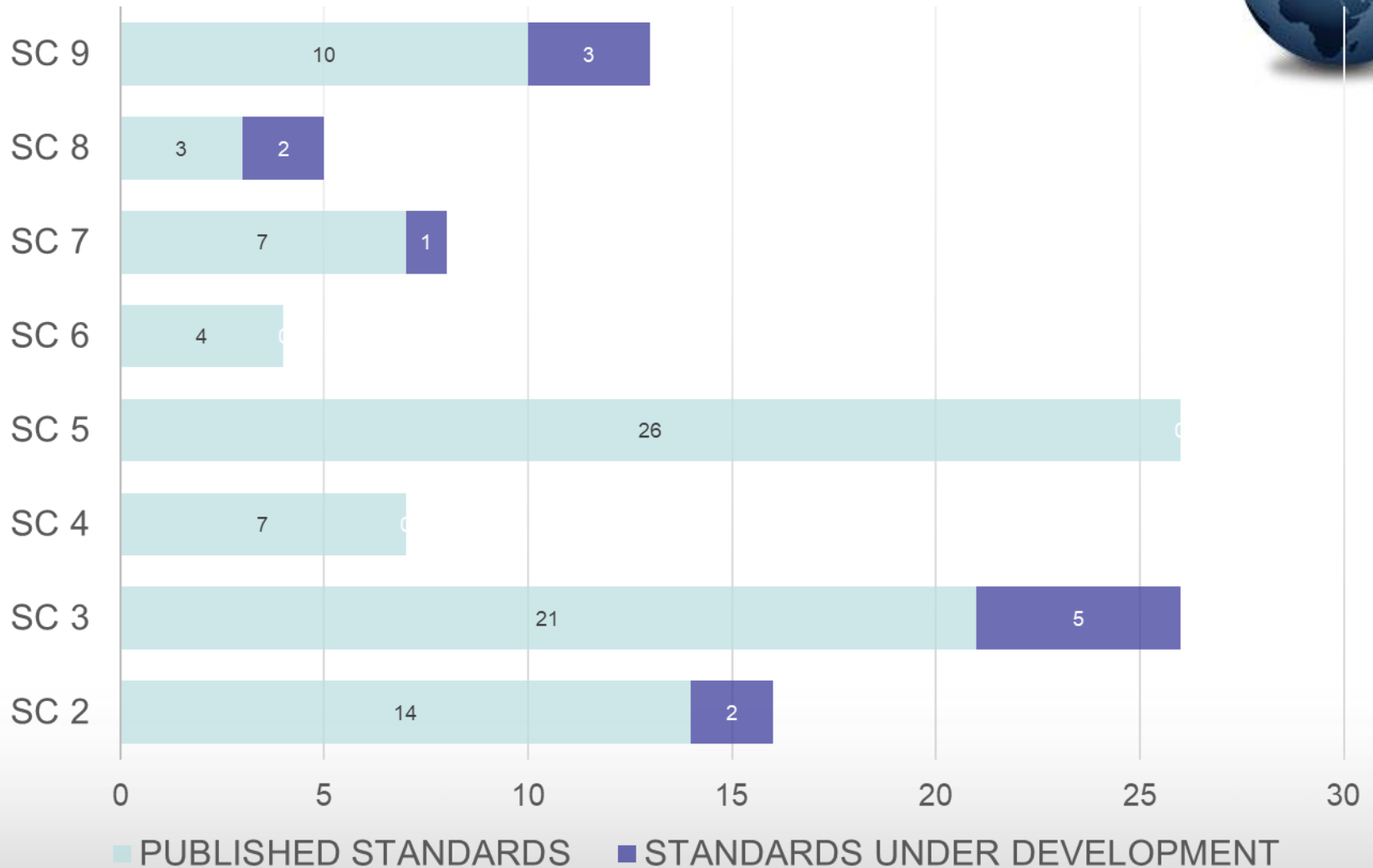
IEC/TC (1): IEC/TC 87

(3) Liaisons with other organizations (7)

Liaisons A (4) : CEOC International, **ICNDT**, IIW, INLAC

Liaisons B (3) : EC, IAEA, WCO

Activity Report



Future Plan / New Items



Next ISO/TC 135 Plenary

2020 WCNDT (Korea) Postponed

2021 WCNDT (Korea)

Next ISO/TC 135/SC 7 Meeting

Virtual meeting, 7 am to 11 am EST

September 22 – 24, 2020

Registration is now open at ISO Portal



**Thank you for
your attention.**