



**The World Organisation for NDT**

CONTENTS	
News.....	1-3
20th WCNDT .....	4-5
European Regional Group .....	6-7
Asia-Pacific Regional Group .....	8-10
Pan-American Regional Group .....	11
Calendar of Events.....	12

**Volume 9 Issue No 10** **October 2022**

**CHAIR'S MESSAGE**  
**Normalisation and global developments on track**

Crossing the third quarter of 2022, the light at the end of the tunnel is visible. A strong economic forecast from the east to the west is being predicted. Borders are open and the aviation industry is getting back to near normal. We have learnt to live with COVID-19 as endemic. Indeed, the last two years have been a great struggle and ICNDT executives made the important decision to postpone the 20th World Conference on Non-Destructive Testing (20th WCNDT) and the formal WCNDT schedule has been pushed back by one full cycle. The 20th WCNDT will now be held from 27-31 May 2024 in Incheon, South Korea. This decision was made together with the host, the Korean Society for Nondestructive Testing (KSNT), in the hope of allowing for greater participation from the world's non-destructive testing (NDT) community under one roof. The battle is not over in the east, as a few countries are still trying their best with zero tolerance on COVID-19, an approach that continues to be debatable.



This year, Brent crude oil has shown a significant rise from \$90 to \$110 (approximately £78 to £95) per barrel since January to date. Although this is affecting our daily lives with rising costs, it favours the NDT industry, especially oil and gas exploration, refining and distribution. The global NDT industry is still forecasting a strong compound annual growth rate (CAGR) of 7.5% until 2024, according to MarketWatch.

Various conferences have taken place this year, with several more still to come, to showcase developments and innovation, including: the DGZiP Annual Conference 2022, held in May in Kassel, Germany; the 59th Annual British Conference on NDT and Materials Testing Exhibition, hosted by the British Institute of Non-Destructive Testing (BINDT), held in September in Telford, UK; the International Conference on NDE 4.0, to be held from 24-27 October in Berlin, Germany; the ASNT 2022 Annual Conference, to be held from 31 October-3 November in Nashville, Tennessee, USA; and the Fourth Singapore International Non-Destructive Testing Conference and Exhibition (SINCE 2022), to be held from 7-8 November in Singapore. These events provide delegates with the opportunity to physically meet the global manufacturers and customers in our NDT industry. Please refer to the ICNDT International Event Calendar for details of various events: [www.icndt.org/events/international-event-calendar](http://www.icndt.org/events/international-event-calendar)

ICNDT executives held various meetings this year, including the Annual Meeting and ICNDT Executive Committee (IEC) meetings, to discuss our budget, membership and strategies. The ICNDT General Assembly was held online on 15 June 2022 and I would like to thank all members who participated and contributed.

With the publication of ISO 9712:2021, I could see certification bodies working hard to update their schemes in order to be aligned with the new standard and achieve their respective accreditations. The new revision details a structured credit point system for renewal at Level 1 and Level 2, as well as for renewal and recertification at Level 3.

*Continued on page two*

**ICNDT SIG 'NDT Reliability' – 'Human and Organisational Factors' sub-group**

The 'Human and Organisational Factors' sub-group of the ICNDT Specialist International Group (SIG) 'NDT Reliability' held its first two meetings earlier this year. Below is a short summary of the meetings.

**Summary of the first meeting**

*Date:* 9 March 2022

*Location:* Online

*Participants:* 7

The 'Human and Organisational Factors' sub-group met for the first time to discuss the aims and objectives of the group and the list of activities.

The chief task of the sub-group is to develop general guidelines on human factors in the field of non-destructive testing (NDT). The guidelines are expected to include appraised citations of previously published works. It was deemed that the existing guidelines, such as the UK Health and Safety Executive (HSE) guidelines, UK HOIS and US Nuclear Regulatory Commission (NRC), among others, might be a good starting point. Given that these guidelines are primarily aimed at the industry, specific guidelines on major and widely-used techniques should also be provided. One key feature is that they must be easy to use in order to gain any traction with industry.

To enrich the discussion and benefit from the valuable contribution of experts in the field, it was agreed that guest speakers would be invited to present their insights into the field of human factors and the lessons that have been learnt.

Another aspect that this group will also address is the modelling of human factors using tools such as probability of detection (POD) and the evaluation of human factors in NDE 4.0, which remains a largely new area of research.

*Continued on page two*



## ICNDT Journal



**Publisher:** The International Committee for Non-Destructive Testing (ICNDT).  
The ICNDT is registered as a legalised Association with its seat in Vienna, Austria. Jochen-Rindt-Straße 33, 1230 Vienna, Austria.

**Secretariat:** The British Institute of Non-Destructive Testing (BINDT),  
Midsummer House, Riverside Way, Bedford Road, Northampton  
NN1 5NX, UK. Tel: +44 (0)1604 438300; Email: info@bindt.org

**Editor:** David Gilbert, The British Institute of Non-Destructive Testing (BINDT).  
Tel: +44 (0)1604 438300; Email: david.gilbert@bindt.org

**Production:** Corinne Mackle, BINDT  
Zoe White, BINDT  
Stephanie Hepworth, BINDT  
Essie King, BINDT

Published three times per year.

Editorial contributions are welcomed.

Articles should be sent to David Gilbert, BINDT. Email: david.gilbert@bindt.org

Views expressed in this publication are not necessarily those of the International Committee for Non-Destructive Testing. No liability is accepted whatsoever for errors or omissions.

ICNDT member societies are authorised to distribute this newsletter and/or its contents; however, permission should be obtained for reproduction of individual articles and extracts.

**Material for the next ICNDT Journal should be sent to  
David Gilbert, email: david.gilbert@bindt.org**

**Your new ICNDT Journal is available to download from [www.icndt.org](http://www.icndt.org)**

*Chair's message continued from front page*

It is important for the certification bodies to communicate this to certificate holders and assist and train them to keep their log up to date, ensuring a smooth renewal/recertification process in the future.

ICNDT WG1: Qualification and Certification has an active and continually reviewed action plan and, among other things, is working on developing recommendation for interpretation of ISO 9712:2021.

ICNDT respects the rule of law and human dignity. Our thoughts are with those who are suffering from the situation of war. We are closely monitoring the situation in Ukraine to support our members and their continuity in Schedule II of the ICNDT Multilateral Recognition Agreement (MRA), while considering that:

- 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.
- As an international non-profit organisation for NDT, neutrality is fundamental to ICNDT's work and existence, even when its members are coming from countries that are engaged in conflict. This is a position that ICNDT has maintained consistently throughout its history and in accordance with the constitution.
- ICNDT's vision is to create a safer world through the wider use of NDT and diagnostic technologies.
- ICNDT's mission is 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.

ICNDT fully supports all efforts undertaken by the international community to protect people and reach a solution to restore security and compliance with international law in all places of the world.

I wish everyone good health, peace, prosperity and growth.  
Stay safe, stay healthy.

*Ir Sajeesh K Babu, Chair, ICNDT*

*Continued from front page*

The group is fortunate in that its members are drawn from industry, academia and research institutions from across the globe. The group is also looking to expand to include members from Australia.

### Summary of the second meeting

*Date:* 11 May 2022

*Location:* Online

*Participants:* 4

During the second meeting of the 'Human and Organisational Factors' sub-group, the members discussed the structure and style of the guidelines to be produced. It was agreed to initially focus on the general guidelines without specific reference to a particular industry or method, although some examples of human factors from safety-critical industries such as nuclear and aerospace may be given to illustrate some of the concepts discussed. Subsequently, differences and details specific to important industries and methods will be noted later in separate sections or documents.

Once a draft guideline is produced, it was suggested that a survey be shared among industry to solicit their feedback about the relevance, practicality and usefulness of some of the recommendations.

A couple of existing guidelines were deemed to be a good starting point to help to draft the guidelines for human factors.

Members of the group were invited to research guideline structure (within NDT and beyond) in terms of content, style and readability, to be discussed during a future meeting.

It was proposed that experienced members of the group present the state-of-the-art of human factors in their respective industries to establish common features and identify new directions for future collaboration. For example, Martin Wall will present on oil and gas, Marija Bertovic on NDT in general and Bernard McGrath on PANI 3 and beyond.

Finally, there was a pertinent discussion on the relevance of producing the guideline documents. It was proposed that a checklist and independent auditing rating (which comprises POD and human factors) be used to assess the service reliability of industries in the sector.

### Contact details

**Chair:** Dr Abdeldjalil Bennecer. Tel: +44 (0)1604 893620; Email: abdeljalil.bennecer@northampton.ac.uk

**Chair:** Dr Marija Bertovic. Tel: +49 30 8104 4665; Email: marija.bertovic@bam.de

## Arbitration, conciliation, mediation and negotiation – what are the differences?

*Although these four concepts seem to be relatively similar in the way that they aim at peacefully solving specific business issues, there are fundamental differences between them. The main common dimension is that they are all part of what is referred to as alternative dispute resolution (ADR) and are therefore all alternative processes to traditional justice. Professor M F Herelli, ICNDT Honorary Member, Past CEO of CETIME-COTEND Tunisia, IAEA-AFRA-PSC Projects, explains...*

### Arbitration

Arbitration is when the parties to a dispute appoint one or more 'arbitrators'. An arbitrator is a person who receives, through the arbitration agreement, empowerment to settle the dispute. Thus, after listening to the parties, he or she makes an arbitration award that must be enforced. Of the three other concepts, it is therefore the most distinct from mediation.

Arbitration is closer to traditional justice and is sometimes called 'private justice'. It is a private and paid justice in which the arbitrator is entrusted by the parties to settle the dispute. He/she does so in accordance with the principles of law. This role is similar to that of a judge.

Moreover, the arbitrator makes an award that has the authority of *res judicata*. In concrete terms, he/she listens to the parties and makes a decision that is binding.

Arbitration has the advantage of settling the dispute quickly and discreetly. Nevertheless, it is an expensive form of justice that offers few guarantees of independence and impartiality. Yet, these two notions are very important. Indeed, what are we to think of a firm and definitive solution given by an arbitrator whose remuneration, or other economic interests, depend on the solution they choose? What about an arbitrator who has common interests or friendly relations with one of the parties to the dispute?

### Conciliation

Conciliation is closer to the concept of mediation. A 'conciliator' is chosen by the parties. His or her role is to listen to the parties and make a proposal based on what he or she has understood. The parties are then free to follow his or her recommendations or even to modify them.

The conciliator reconciles the parties in order to find an amicable solution. The conciliator strongly suggests a solution to the parties in terms of law and morality. In concrete terms, he/she listens to the parties and suggests a solution that is not binding.

The conciliator is therefore not neutral. The conciliator tries to imagine the solution that the judge would have chosen if they had been seized. Conciliation is the second most commonly used alternative dispute resolution method; however, this is essentially due to the fact that it is free.

### Mediation

Mediation implies that the mediator (also chosen by the parties) maintains a neutral and impartial position. Thus, they will facilitate communication and it is the parties to the conflict who will find their own solution. This implies that the mediator remains impartial and neutral as to the chosen solution.

Mediation is a structured process that guarantees and re-establishes the quality of the relationship in order to allow the resolution of a dispute by and for the parties. The mediator is free from all legal, moral or cultural influences. They accompany the parties to enable them to find the most satisfactory solution for them.

The mediator must be neutral (with regard to the solution chosen by the parties), independent (their remuneration does not depend on the outcome of the mediation) and impartial with regard to the parties (no bias), as well as respecting strict confidentiality.

As the most widely used ADR process, mediation is experiencing a boom and an undeniable success in France. A report by the Council of State mentions a 70% rate of conflict resolution.

### Negotiation

Negotiation implies the search for an agreement in the interest of the parties with the help of a third party – the negotiator. Negotiation is based on common values, interests and issues. Negotiation is about power relations. It is generally a question of skilfully putting across one's ideas.

The strategies adopted in negotiation consist of refraining from speaking first so as not to reveal 'one's cards', giving ground only if one gains ground and looking for the weakness in one's 'opponent'. As in a fight, we speak of an opponent because the interests of the parties diverge and the stakes are high. Each party tries to win as much as possible and lose as little as possible.

### Overview

At a time when the courts are particularly crowded, with particularly long adjudication times, and the Ministry of Justice is making laws to divert disputes, arbitration seems to be a particularly suitable mode of conflict resolution. On the one hand it offers speed, while on the other hand it involves entrusting sometimes complex cases to an arbitrator or a college of arbitrators.

For example, a winegrower in conflict with a supplier or a service provider can decide together to submit the dispute to an arbitrator rather than to a court that may render a decision many months later.

Arbitration therefore makes it possible to settle a dispute (without going through the state courts but through an arbitral jurisdiction), by entrusting the dispute to one or more individuals chosen by the parties. It therefore constitutes a method of out-of-court conflict resolution. The mission is entrusted to an arbitrator or to a panel of three arbitrators, who will have a good knowledge of the matter concerned.

The arbitration award is in writing and must contain a brief statement of the parties' respective claims and their legal grounds. The award must be reasoned in law (when the arbitrators rule in law) or in equity (when the arbitrators rule in amiable compositors). The award must also mention the name of the arbitrators, the date and place where the award was rendered, the identity of the parties and their counsel. Finally, the award must be signed by the arbitrators.

Regarding the effects of this sentence, it is in fact a real court decision binding on the parties. However, the arbitration award is as such devoid of enforceability. This means that, in practice, if one of the parties does not wish to execute this decision they will have to be forced to do so by a (very short) procedure before the High Court in order to give enforceability to the arbitration award.

Recourse to an arbitration procedure can be used by any private person or any company facing a dispute, provided that the parties both agree to resort to arbitration. Arbitration is confidential, efficient, rapid and judged by specialised arbitrators.

In this context, and given the undeniable importance of non-destructive testing (NDT) techniques in various industrial projects, it is proposed that a group of accredited experts be set up within ICNDT to offer such services, according to a procedure offering guarantees on the technical rules of good practice and the standards applied.

Of course, the selected experts in NDT will need some training in various techniques, legal methods and procedures to acquire sufficient skills and knowledge in the four above-mentioned procedures. ICNDT may wish to explore possible methods and opportunities for training and empowering these experts. One potential opportunity may be a collaboration with the International Atomic Energy Agency (IAEA) and the United Nations Industrial Development Organization (UNIDO).

[www.20thwcndt.com](http://www.20thwcndt.com)

Exclusive Sponsor

**EVIDENT | OLYMPUS**



20<sup>th</sup> WCNDT

# 20<sup>th</sup> WCNDT

20<sup>th</sup> World Conference on Non-Destructive Testing

Songdo Convensia, Incheon, Korea

## 27-31 May 2024

### IMPORTANT DATES

Abstract Submission	31 August 2023
Notification of Acceptance of Abstract	31 October 2023
Submission of Camera-ready Abstract(Mandatory)	31 December 2023
Submission of Extended Abstract or Paper*(Optional)	31 December 2023
Registration and Payment of Presenting Author	31 December 2023
Preliminary Program	31 January 2024

\*For the conference proceedings (NOT for the SCIE journal submission)

### Contact Us

The Korean Society for Nondestructive Testing

KOFST Center Suite 903, 22 Teheran-ro 7-gil, Gangnam-gu, Seoul 06130, Korea  
 Phone: +82-2-6257-7568, Fax: +82-2-582-2743  
 E-mail: [secretariat@20thwcndt.com](mailto:secretariat@20thwcndt.com)  
 Website: [www.20thwcndt.com](http://www.20thwcndt.com)



## 20th WCNDT finally moved to 2024

The 20th World Conference on Non-Destructive Testing (20th WCNDT) has been postponed again due to the ongoing impact of COVID-19 and will now take place from 27-31 May 2024 at Songdo Convensia, Incheon, South Korea.

### Newly revamped 20th WCNDT Organising Committee

With the postponement of the 20th WCNDT to 2024 and the inauguration of Dr Dong-Jin Yoon, the new President of the Korean Society for Nondestructive Testing (KSNT), the 20th WCNDT Organising Committee has been restructured in order to carry out all relevant works more efficiently, which will reinforce the activities of the committee and be favourable for the success of the event.

Dr Yoon now serves as Chairman of the 20th WCNDT Organising Committee. All other committees, such as strategic planning, scientific programme, exhibition, sponsorship and international meetings/workshops, are functioning under reciprocal consultation to proceed the 20th WCNDT systematically.

### Background surrounding the decision to postpone

Last year, KSNT made the difficult decision to reschedule the 20th WCNDT from 28 February-4 March 2022 to 30 May-3 June 2022 in the hope that the pandemic situation might improve with the increase in vaccinations worldwide.

However, as we are all aware, the world continued to be heavily impacted by the COVID-19 pandemic, led by the resurgence of new variants. Earlier this year, there was still considerable uncertainty regarding the travel of foreign participants, so the Organising Committee decided that the event could not take place in May/June as scheduled. At the same time, sponsors and exhibitors indicated their strong preference for a face-to-face conference in the survey that was conducted as part of the Organising Committee's efforts. Given all of these circumstances, it was agreed that a further postponement was best for all. It should be noted that the formal

WCNDT schedule is now pushed back by one full cycle, a decision that was made under the auspices of ICNDT.

Although the situation regarding COVID-19 is still unpredictable, it is greatly hoped that conditions for international travel will improve over the next couple of years and, most importantly, that there will be no further postponement of the conference.

### Related logistics issues

All paid registrations, accepted abstracts, contracts for exhibition and sponsorship that have been made to date will remain valid for the new conference dates. The official website of the 20th WCNDT ([www.20thwcndt.com](http://www.20thwcndt.com)) is now live and includes a new schedule, a revised conference programme and other essential information. In particular, the registration fee will inevitably be raised as the conference has been postponed for four years. Nevertheless, all participants who have already registered for the conference to date are eligible by default for the registration fee prior to the increase.

In addition, the exhibition floor plan will be upgraded with the addition of approximately 80 single units (3 m x 3 m), which will enable more potential exhibitors to book exhibition booths. The 'Important Dates' have been updated in accordance with the new conference dates so that the additional submission of abstracts is possible. The revision of accepted abstracts should be carried out through the online modification system by logging in on the conference website and visiting 'My Page'. Participants are advised to visit the website regularly to check for relevant information about the conference.

The Organising Committee intends to ensure that the postponement offers the opportunity for a very safe and much more fruitful conference, which will provide a dynamic technical programme. Your continued interest and active participation is essential for a successful 20th WCNDT.

For further information, contact the Conference Secretariat, email: [secretariat@20thwcndt.com](mailto:secretariat@20thwcndt.com) or tel: +82 2 6257 7568, or visit the website at: [www.20thwcndt.com](http://www.20thwcndt.com)



# LES END, Voir et Prévoir NDT, see to foresee



## COFREND DAYS

### DU 6 AU 8 JUIN 2023 - JUNE 6<sup>TH</sup> TO 8<sup>TH</sup>

MARSEILLE - PALAIS CHANOT

Sponsors












[www.cofrend2023.com](http://www.cofrend2023.com)

With the support of:







## EUROPE

## News from the French Confederation for Non-Destructive Testing

### COFREND on EFNDT Board of Directors

On 10 December 2021, Frédéric Schaditzki was elected as the French Confederation for Non-Destructive Testing (COFREND) representative for the European Federation for Non-Destructive Testing (EFNDT) Board of Directors, following Étienne Martin's nine-year term of office.

After graduating as an engineer from Arts et Métiers, Frédéric became Director of International Material Testing Operations at DEKRA for fifteen years and is currently a Director of TesTex NDT Ltd in Europe. He knows COFREND well, having chaired the Rhône-Alpes regional committee from 2013 to 2017.

Frédéric is extremely pleased to represent COFREND. He intends to accomplish this mission by continuing the actions taken by Étienne Martin and by working with all representatives in the NDT sector in Europe. One of his major challenges will be the harmonisation of qualifications and their implementation in the member countries.

The overall mission of EFNDT is to bring together the resources of the individual national societies and organisations in the field of NDT in Europe to create a more effective and more valuable voice for the NDT industry, the NDT profession, users of NDT and the wider community.

### The COFREND label for training organisations

The launch of the COFREND label for training organisations is approaching and organisations can already prepare to obtain this label by referring to all the necessary documentation (quality and technical criteria, as well as the syllabuses) on the COFREND website.

This label did not appear by chance. It is the consequence of changes to the standards and rules issued by France compétences in particular. Indeed, since the new French law of 5 September 2018, for the freedom to choose one's professional future, and in order to ensure that certifications are used properly, France compétences has been responsible for the national directories:

- The Répertoire national des certifications professionnelles (RNCP), the French national register of professional certifications, for credentials or diplomas that certify a professional qualification, the level of which is recognised by the state; and
- The RS (specific register), which replaces the inventory for certifications and qualifications and corresponds to professional skills that supplement professional certifications.

To comply with this new directive, COFREND had to set up a system for recognising training organisations preparing for the COFREND examinations. The publication of job descriptions in the RS on the France Compétences website makes it possible for everyone to use their personal training account (CPF) to finance training and prepare for certification with COFREND-labelled training organisations. The principle of this recognition using the label is based on several criteria. The first are those recommended in ISO 9712:

- Compliance with the training syllabuses developed by COFREND working groups, led by the Comité de Labellisation des Organismes de Formation (CAOF) (Training Organisation Certification Committee), and taking into account the changes made to ISO/TS 25107. A training syllabus includes the common core programme and the specific programme established for each method by the sectoral committee concerned.
- Compliance with technical criteria: these criteria are drawn up based on the criteria applied to examination centres in order to achieve consistency and make sure every candidate has the same chance of succeeding, irrespective of the chosen training organisation.

The quality criteria come from France compétences and QUALIOP certification. For QUALIOP-certified bodies, the audit will therefore be limited and only the specific COFREND criteria will be evaluated. For more information, email: [label.formation@cofrend.com](mailto:label.formation@cofrend.com)



## Evolution of NDT personnel qualification and certification in Hungary

The Hungarian Association for Non-Destructive Testing (MAROVISZ) was accredited for non-destructive testing (NDT) personnel qualification and certification in accordance with MSZ EN ISO/IEC 17024:2013 in 2014. It was a long road that led to the accredited status and to the current consolidated situation. The country's economic/political changes in the 1990s confirmed the need of the Hungarian NDT community to establish its own society (previously, NDT had been a subsection of the Scientific Society of Mechanical Engineers). When MAROVISZ was established in 1997, the freshly elected presidency declared the society's willingness to contribute to the improvement of the training and qualification of NDT personnel. In 2005, radical changes happened in the leadership and the new presidency reformulated the previous goal by stating that the society should take part in training and qualification.

The reason for this clearly stronger commitment was that serious deficiencies could have been recognised in the country's training and qualification system. Intensive activity in two areas was initiated. Firstly, the society started the preparation for the accreditation. Secondly, MAROVISZ took part in the European Commission-sponsored project TRANSFER PROQUALINDT (a Leonardo da Vinci project) to improve training and develop state-of-the-art NDT training material.

In 2014, after the creation of all technical, administrative and human conditions, the successful accreditation process was completed. Major features of the current situation can be characterised by the following:

- MAROVISZ became a massive player in Hungary's NDT qualification and certification scene and its portion is continuously growing.
- The entire system is based on the Leonardo training materials, which are being disseminated to training institutions.
- A state-of-the-art examination method and technique has been designed and developed (flexible exam date selection for the trainee, using tablets for theoretical exams and the creation of a personal profile by uploading documents online).
- It is an IT-supported process, with following-up on certificate validity, issuing of NDT ID and many other features.



MAROVISZ's state-of-the-art examination facilities



UNIVERSITÀ  
DEGLI STUDI  
DI BRESCIA



# art'23

## International Conference on non destructive investigations and microanalysis for the diagnostics and conservation of cultural and environmental heritage

**June 14<sup>th</sup>/16<sup>th</sup>, 2023  
Brescia (Italy)**

School of Economics of the University of Brescia  
Via San Faustino, 74/B – Brescia

### MOTIVATION AND OBJECTIVES

Non-destructive Analysis has turned out to be crucial methods to achieve more successful and long-lasting preservation of works of art and environmental heritage. With the aim to promote education and competence in this field, the “art” logo was created almost forty years ago and it still represents, in national and international sphere, one of the most successful initiatives in this area. The desired synergy among experts will lead to continuous development of new scientific methods in the fields of preservation, reconstruction and diagnostics of cultural and environmental artworks.

The last edition of the “art conference” was held in Buenos Aires (Argentina) in November 2021 and despite the pandemic period it promoted cooperation among different specialists coming from all over the world and strengthened the relationship especially between Italian and Latin-American world of NDT.

The “art'23 Conference” will strive to achieve the funding goals by bringing together delegates, conservation scientists and curators, art historians, analytical scientists and architectural researchers.

These experts will meet in Brescia: placed in the North of Italy, AIPnD hometown has been nominated “2023 Italian Capital of Culture” together with Bergamo. The technical and scientific program will include both invited and short presentations and poster sessions that will highlight the application of NDT in many important sectors related with cultural heritage.

**Save the date: June 14<sup>th</sup>/16<sup>th</sup>, 2023  
See you in Brescia!**

### CONFERENCE TOPICS

Environmental – Microanalysis - Non-Destructive Testing  
In detail:

- Techniques to measure and evaluate environmental damages and degradation processes (on stone, leather, parchment, painting, wood, ivory, bone, metal, glass); measurement of the extent of damage caused by corrosion, atmospheric pollution, biodegradation;

- Development of analytical techniques for the study of the composition on decay of museum objects (ion beam analysis; irradiation and diffraction techniques; radiography and tomography; fluorescence spectroscopy);
- Measuring the effectiveness of newly developed protection, preservation and conservation procedures (slowing deterioration and damage; innovative coating; proper storage conditions and controlled environment; temperature, humidity, lighting, gas composition);
- Techniques to identify materials, provenience of raw material and production details of object (origin and supplies; studies of ancient production techniques; identifying trade routes);
- Authenticity and authentication of art and archaeological objects (questions of origin, identification fakes and forgeries);
- Prevention of effects of natural and non-natural disasters for Cultural Heritage artefacts (earthquakes; windstorms and floods; blasts);
- Mechanical Characterization of Historical Building Material;
- Inspection methods, Structural health monitoring of Cultural Heritage;
- The role of NDT faced with the tasks of Resilience Durability and Sustainability;
- Interdisciplinary projects and case studies;
- Certification on NDT in Cultural Heritage Field.

### IMPORTANT DATES

**Call for Abstract (one-page)  
December 12<sup>th</sup>, 2022**

**Notification of Abstract Acceptance  
January 20<sup>th</sup>, 2023**

**Full Paper Submission  
March 31<sup>st</sup>, 2023**

Authors are invited to submit individual contributions on any of the Conference topics. Submissions and Conference Registrations should be performed by contacting the Organizing Secretariat: [art@aipnd.it](mailto:art@aipnd.it).

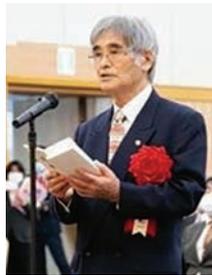
**art@aipnd.it**

ASIA-PACIFIC

## JSNDI Executive Advisor receives 2021 Prime Minister Award for Standardization

On 19 October 2021, the Japanese Ministry of Economy, Trade and Industry (METI) officially made public the winners for the 2021 Industrial Standardization Awards. The presentation ceremony took place the following day on 20 October, with 51 award recipients in total. In addition, the ceremony was broadcasted via a live stream due to strict adherence to COVID-19 guidelines.

By the nomination of the Japanese Society for Non-Destructive Inspection (JSNDI), Dr Norikazu Ooka received the Prime Minister Award for Standardization. This prestigious award is given to those who have demonstrated excellence in promoting standardisation and only one applicant is chosen each year.



Dr Ooka giving his official acceptance speech



Parliamentary Vice Minister Yumi Yoshikawa (left) and Dr Ooka

## 16th APCNDT call for abstracts and prospectus

The 16th Asia Pacific Conference for Non-Destructive Testing (16th APCNDT) is on schedule to take place from 28 February to 3 March 2023 in Melbourne, Australia, and the call for abstracts is now open. In addition, the event organiser, the Australian Institute for Non-Destructive Testing (AINDT), has released a prospectus for the anticipated conference.

The 16-page prospectus highlights a wealth of information related to exciting sponsorship opportunities, exhibition details and more. For further information and to download the prospectus, visit the official event website at: [www.apcndt2023.com.au](http://www.apcndt2023.com.au). For other news from the Asia Pacific Federation for Non-Destructive Testing (APFNDT), visit the APFNDT website at: [www.apfndt.org](http://www.apfndt.org)

## Peak body alignment for secretariat services

After a robust tender process, it was announced towards the end of 2021 that the Australian Institute for Non-Destructive Testing (AINDT) had been elected as the new Secretariat for the Australian Institute for the Certification of Inspection Personnel (AICIP). AINDT has extensive experience in examination management, database management and certification and aims to uphold the integrity of the AICIP brand into a sustainable future.

The changeover of secretariat from the Australian Industry Group (Ai Group) to AINDT commenced from 1 October 2021 and the feedback thus far has been extremely positive.

AICIP welcomed AINDT to provide its secretariat services in a move that aimed to strengthen an already existing relationship between non-destructive testing (NDT) and in-service inspection.

One example of this relationship is in the heavy maintenance industry, where AICIP inspectors have long relied on non-destructive testing technicians to verify or validate areas of concern and non-destructive testing reports are frequently sent to AICIP inspectors for a fitness-for-service determination of pressure-retaining equipment. Through demand, the industry has shown that, for an in-depth and well-informed inspection, both the AICIP inspector and the AINDT technician need to have an input.

Over the last five to ten years, an increasing convergence between non-destructive testing and in-service inspection has been taking place, specifically in the realm of non-intrusive inspection (NII).

Pressure-retaining equipment, previously purged, cleaned and visually inspected at a high cost, for a long duration and requiring a high level of effort, is now commonly inspected with a combination of internal remote visual inspection and external phased array, time-of-flight and conventional ultrasonic thickness inspection, without any loss of quality or results.

The HOIS joint industry partnership is one of many organisations continually working to produce verified guidance on how in-service inspection and non-destructive testing can jointly perform quality and safe asset reliability services.

AINDT and AICIP are positive that their alignment will greatly benefit both institutes' members.

The AICIP Board of Directors appreciate the ongoing support from members and volunteers and look forward to continuing to provide industry with pressure equipment certification.

For any further information, contact the Federal Office, tel: +61 3 9486 9267, or contact AICIP via email at: [admin@aicip.org.au](mailto:admin@aicip.org.au)

### 8th Middle East NDT Conference and Exhibition

12-15 March 2023

Gulf Convention Center, Gulf Hotel Kingdom of Bahrain

Contact: Bahrain Society of Engineers, PO Box 835, Manama, Kingdom of Bahrain. Tel: +973 17 810734; Fax: +973 17 827475; Email: [conference.officer@bse.bh](mailto:conference.officer@bse.bh)

[www.mendt.co](http://www.mendt.co)

16th ASIA PACIFIC CONFERENCE FOR  
NON-DESTRUCTIVE TESTING 2023

MELBOURNE CONVENTION  
AND EXHIBITION CENTRE



**MELBOURNE**  
**AUSTRALIA**

28 FEB-3 MAR 2023



**A new date has been announced for APCNDT 2023!**  
With strong interest from Australian and International Exhibitors, Booths are selling fast.  
**Get in now to secure your spot!**



**WELCOME TO**



**AINDT**  
ASIA PACIFIC CONFERENCE  
**APCNDT 2023**

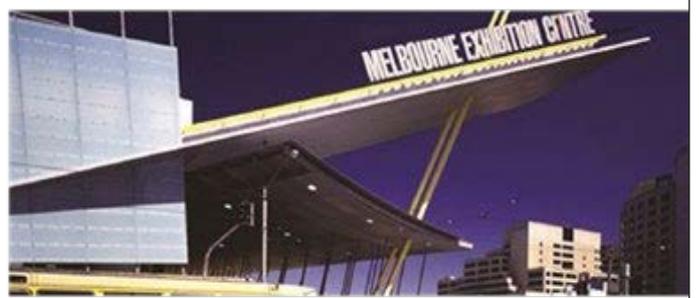
The 16th APCNDT Conference is promising to be the must attend regional event for the Asia Pacific Federation for Non-Destructive Testing and its member societies. The conference will include a technical and scientific program along with technical educational workshops presented by leading NDT and CM experts.

As one of the biggest events on the NDT Calendar for 2023, be sure to **SAVE THE DATE!**



**EVENT DETAILS:**

**When:** 28<sup>th</sup> Feb - 3<sup>rd</sup> March, 2023  
**Host:** Australian Institute for Non Destructive Testing  
**Venue:** Melbourne Convention and Exhibition Centre  
**City:** Melbourne, Australia



For more information about attending, exhibiting, presenting or sponsoring, please visit [apcndt2023.com.au](http://apcndt2023.com.au) or phone +61 3 9328 8831



# SINCE 2022

4th Singapore International NDT Conference & Exhibition

COME JOIN US!

Marina Bay Sands  
Expo & Convention Centre

7 - 8 NOV

REGISTRATION & CALL FOR PAPERS!

 <https://www.since2022.org>

 [since2022@ndtss.org.sg](mailto:since2022@ndtss.org.sg)



PAN-AMERICA

## News from the American Society for Nondestructive Testing

### ASNT Strategic Plan

The American Society for Nondestructive Testing (ASNT)'s Strategic Plan lays out the association's road map for the next five years (2022-2026). The plan is the culmination of two years of research, analysis, discussion and reflection by the volunteer members of the Board of Directors and the management team, and reflects the cumulative input received from many key stakeholders. The plan identifies six strategic objectives, referred to as 'pillars', that are the association's priorities.

"ASNT's mission is to advance the field of non-destructive testing (NDT)," said Neal Couture CAE, ASNT's Executive Director. "This plan articulates the Board's vision for the society over the next five years. I encourage you to join us in making this vision a reality."

In structural terms, a pillar is used to support a building. This metaphor is useful in communicating the importance and purpose of the six strategic objectives identified, as they will support ASNT's advancement.

The six pillars of ASNT's Strategic Plan are:

1. Expand and improve the certification portfolio.
2. Improve the membership value by providing essential content and engagement experiences.
3. Create pathways and resources for the entry, performance and advancement of the NDT workforce.
4. Advance the NDT field by being an effective advocate.
5. Implement a regional growth strategy.
6. Establish and fund a research agenda.

As with physical structures, each of ASNT's strategic pillars stands on its own but shares the overall load. For example, Pillar 1 'Expand

and improve the certification portfolio' also serves to improve value to membership (Pillar 2) and will play an important role in regional growth strategies (Pillar 5). There are such synergies between each of the pillars, which together magnify the overall effects of the plan.

The full report provides more detail about each of the pillars and is available at: [asnt.org/strategicplan](http://asnt.org/strategicplan). The plan outlines the current reality that drives the need for each pillar, summarises a future vision and describes the strategies chosen to achieve the vision. Specific, measurable, achievable, relevant and time-bound (SMART) goals are identified.

ASNT's members, sections, stakeholders and peer societies are encouraged to read and engage with the ASNT Strategic Plan.

### Other ASNT news and events

Coming soon, ASNT will be rolling out a new way to access and read ebooks. Improvements to the new ebook store include a more streamlined access and reading experience, easier browsing, site navigation and more.

ASNT has the following events planned for 2022/2023:

- **31 October-3 November 2022: ASNT 2022 – The Annual Conference**  
Venue: Nashville, Tennessee (virtual attendance also available).
- **9-11 May 2023: Digital Imaging for NDT**  
Venue: New Orleans, Louisiana.
- **26-29 June 2023: Research Symposium**  
Venue: Columbus, Ohio.
- **15-17 August 2023: International Symposium on Nondestructive Characterisation of Materials**  
Venue: Dübendorf (Zurich), Switzerland.

## News from the Brazilian Association of Non-Destructive Testing and Inspection

### Technical Journey of Knowledge in Inspection

Recently, the Brazilian Association of Non-Destructive Testing and Inspection (ABENDI) held the 2nd edition of the Technical Journey of Knowledge in Inspection (JTCI).

Held in São Paulo, Brazil, from 31 August to 2 September 2022, the event presented innovations, advances and challenges related to non-destructive testing, inspection and structural integrity management, in order to generate knowledge and assist in professional and industrial development for the oil & gas, energy and mining segments.

For the first time, the JTCI also allowed space for the presentation of technical papers.



The 2nd edition of the JTCI allowed space for the presentation of technical papers

### The American Petroleum Institute visits ABENDI

This April, ABENDI had the honour of receiving a visit from a delegation from the American Petroleum Institute (API). The delegation included Delma Quintanilha, Chief Representative for South America, Africa, Portugal and Spain, Alejandro Di Nunzio, Director of Global Business Development, and John Nyholt, N3 Ultrasound Specialist and API Independent Consultant. They were received by João Conte, Executive Director, João Rufino Teles Filho, Certification Consultant and former President, and Antonio Luís Aulicino, Executive Business Development Manager.

In addition to visiting the ABENDI Examination and Qualification Center, as well as the Research and Development Laboratories, topics related to the translation of technical standards were discussed, as well as the development of several joint actions related to personnel certification, especially in the area of non-destructive testing.



Delegates from the American Petroleum Institute at ABENDI

## CALENDAR OF NDT EVENTS

Month	Date	Venue	Event	Contact
October 2022	24-27	Berlin Germany	International Conference on NDE 4.0	tagungen@dgzfp.de <a href="https://conference.nde40.com">https://conference.nde40.com</a>
	25-28	Beijing China	Third World Congress on Condition Monitoring (3rd WCCM)	wccm2021@csei.org.cn <a href="http://www.wccm2021.com">www.wccm2021.com</a>
	31-3 Nov	Tennessee USA	ASNT 2022 – The Annual Conference	conferences@asnt.org <a href="http://www.asnt.org">www.asnt.org</a>
November 2022	7-8	Marina Bay Singapore	Fourth Singapore International Non-Destructive Testing Conference and Exhibition (SINCE 2022)	since2022@ndtss.org.sg <a href="http://www.since2022.org">www.since2022.org</a>
	24-26	Gujarat India	Conference and Exhibition on Non-Destructive Evaluation (NDE 2022)	info@isntnde.in <a href="https://isntnde.in">https://isntnde.in</a>
February 2023	28-3 Mar	Melbourne Australia	16th Asia-Pacific Conference for Non-Destructive Testing	apcndt2023@wsm.com.au <a href="http://www.apcndt2023.com.au">www.apcndt2023.com.au</a>
March 2023	12-15	Manama Kingdom of Bahrain	8th Middle East NDT Conference and Exhibition	conference.officer@bse.bh <a href="http://www.mendt.co">www.mendt.co</a>
June 2023	6-8	Marseille France	COFREND Days 2023	pole.communication@cofrend.com <a href="http://www.cofrend2023.com">www.cofrend2023.com</a>
	14-16	Brescia Italy	International Conference on Non-Destructive Investigations and Microanalysis for the Diagnostics and Conservation of Cultural and Environmental Heritage (art '23)	art@aipnd.it
July 2023	3-7	Lisbon Portugal	13th European Conference on Non-Destructive Testing (ECNDT 2023)	ecndt2023@aimgroup.eu <a href="https://ecndt2023.org">https://ecndt2023.org</a>