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# THE ICNDT JOURNAL

The World Organisation for NDT

The Official Journal of the International Committee for Non-Destructive Testing



**ICNDT**

*The World Organisation for NDT*



The World Organisation for NDT

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# ICNDT Chair's Message

As we step into the new year, it is imperative to reflect on the evolving landscape of Non-Destructive Testing (NDT) and its profound impact on the global economy, particularly amidst the challenges posed by ongoing conflicts.

## NDT Economy

NDT continues to play a pivotal role in ensuring the integrity, safety, and reliability of critical infrastructure worldwide. Despite economic fluctuations, the NDT sector remains resilient, contributing significantly to sustainable development and bolstering industrial productivity across diverse sectors. The global non-destructive testing (NDT) market size accounted for USD 18 billion in 2023 and it is expected to hit around USD 44 billion by 2032, registering a CAGR of 10.32% during the forecast period from 2023 to 2032, presenting lucrative opportunities for our community.

## Global Challenges Due to War & European Sanctions against Russia due to war

Regrettably, the world is facing escalating tensions and conflicts, posing multifaceted challenges to global stability. In response to recent geopolitical developments, the European Union has implemented sanctions against Russia. As a registered entity in Vienna, ICNDT is committed to meeting European regulatory standards and upholding the highest levels of professionalism and integrity including abiding to the sanctions. While geopolitical tensions escalate, it is imperative for the NDT community to navigate these challenges with resilience and uphold professional standards, ensuring the continuity of critical services and collaborations.

## 20th World Conference for NDT in Incheon

We are excited to announce the upcoming 20th World Conference for NDT is well prepared and

expecting to host you all in Incheon, South Korea. World NDT leaders will be meeting alongside of the conference & exhibition to attend various ICNDT Meetings and our General Assembly. This prestigious event will serve as a platform for knowledge exchange, showcasing groundbreaking advancements in NDT technology and methodologies. We encourage active participation from members to enrich discussions and drive innovation forward.

## NDT Developments

The NDT landscape continues to evolve with rapid technological advancements and innovative methodologies. From AI-driven inspection systems to advancements in materials science, these developments underscore the dynamic nature of our field. Let us embrace these innovations and leverage them to enhance the efficiency and effectiveness of NDT practices.

As we embark on this journey through 2024, let us remain steadfast in our commitment to excellence, collaboration, and safety. Together, we can navigate challenges, seize opportunities, and advance the frontiers of Non-Destructive Testing for the betterment of society.

Enjoy your reading of this edition of ICNDT Journal & thankful to the JSNDI to be the editorial committee of the Journal.



**Dr. Sajeesh K Babu**  
ICNDT Chair,  
Non-Destructive Testing  
Society Singapore (NDTSS)

## The 20th WCNDT Update

The 20th World Conference on Non-Destructive Testing (20th WCNDT) will be held on 27-31 May 2024 at Songdo Convensia, Incheon, South Korea. The conference is now just three months away and the preparation of the Conference by the Korean Society for Nondestructive Testing (KSNT) is well underway with Organising Committee and all related parties having gone to great lengths to proceed the 20th WCNDT successfully.

### Important Updated on Arrangements for the Conference

The 20th WCNDT is such a long-awaited worldwide convention on NDT in eight years since 2016 in München, Germany. Despite the series of postponement due to the COVID-19 pandemic, the conference is now progressing toward its almost final stretch with all indicators being satisfactory for an outstanding success.

The following information will provide an update on how the arrangements for the Conference are proceeding:

#### Scientific Program

- As of February 20th, 950 abstracts were submitted from 60 countries, and they will be presented at the 13 parallel sessions for 4-1/2 days, or will be showcased in the form of posters. Accordingly, the authors were informed about the acceptance of their abstracts and were reminded the deadline of registration and payment of the fee. Scientific Preliminary Program has been established for authors to ascertain their presentation schedule and facilitate make travel arrangements on time.
- The 20th WCNDT Organising Committee has invited many renowned speakers, including a Nobel Laureate, for the plenary and keynote presentations. Three plenary speakers and 30 keynote/invited speakers have been confirmed so

far. The opening plenary talk will be given by Prof. Tai Sik Lee, president of the Korean Federation of Science and Technology Societies (KOFST). Prof. Dr.-Ing. Bernd Valeske, Executive Director of Fraunhofer Institute for Nondestructive Testing (IZFP) and Prof. Takaaki Kajita, a Nobel Prize laureate 2015, will deliver the plenary lecture on Tuesday and on Wednesday, respectively.

- Special sessions and two short courses are to be scheduled on various topics which will contribute to vitalizing the overall scientific program. A separate registration is required for each of two short courses which will be held on Sunday, May 26th, a day before the 20th WCNDT. If you want to participate in the short course, please visit at <https://www.20thwcndt.com/02/0206.html> to make registration.

#### Exhibition

As of February 20th, 203 Companies involved in the NDT field, either as equipment vendors or service providers, have purchased exhibition spaces and a total of 357 exhibition booths are sold. Only a small portion of booth space are still available, and the demand for exhibit space from potential exhibitors are very high. Thus, it is recommended to rush your reservation to secure a preferred location. If you are still interested to participate in as an exhibitor, you may contact the exhibition secretariat at [exhibition@20thwcndt.com](mailto:exhibition@20thwcndt.com) to verify any remaining spaces that are available.

#### Sponsorship

A total of 26 sponsors, including Evident the Exclusive Sponsor, have confirmed their sponsorship.



# The 20th WCNDT Update

## Social Functions

A social programme consisting of a Welcome Reception (May 27th), Gala Dinner (May 29th) and Cultural Night (May 30th) has been prepared. An outstanding traditional Korean performance and the K-Pop dance show with various examples of Korean culture and cuisine will make for a most memorable and pleasant night.

## International Meetings

Several ICNDT meetings and workshops will take place during the conference, including the ICNDT General Assembly and the ICNDT SIG and WG meetings. In addition, ISO/TC 135 and SCs’ meetings are going to be held in conjunction with the 20th WCNDT from 1-3 June 2024 at Songdo Convensia.

## For More Information

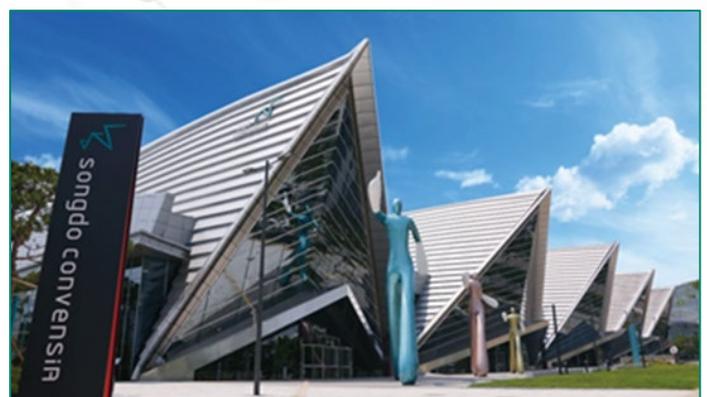
As the conference website continues to be updated regularly with new information on social events, programmes and exhibition, visit the website: [www.20thwcndt.com](http://www.20thwcndt.com), where you will also find any and all information plus contact details.

For any further information, please contact the Conference Secretariat by e-mail: [secretariat@20thwcndt.com](mailto:secretariat@20thwcndt.com) or by telephone: +82 70 4421 7369.

## Conference Registration

Conference pre-registration for attendees is now available on the conference website (<https://20thwcndt.com/registration/registration.html>). It is recommended that those who have not yet registered complete their registration as early as possible to benefit from the reduced registration fee. As indicated in the registration section of the Conference website, online pre-registration is available by 10 May 2024.

Category		Standard 1 January – 10 May 2024	On-site 26 May – 31 May 2024
		USD	USD
Conference	Participants (Full)	1,350	1,400
	Students/ Retiree	800	850
Accompanying Person		500	550





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

Contact Us

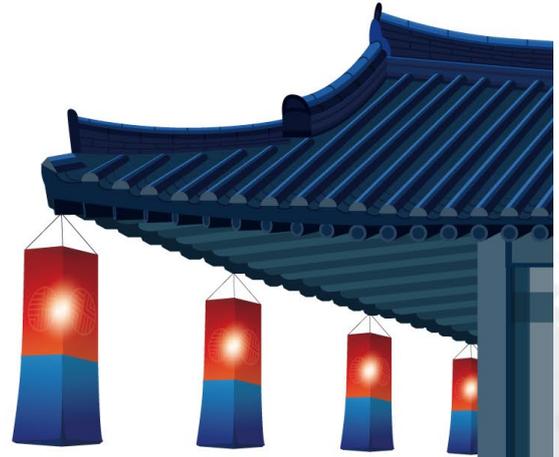
The Korean Society for Nondestructive Testing

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



World's Largest NDT Conference and Exhibition with Nobel Laureate's Lecture

# 20th WCNDT

20th World Conference on Non-Destructive Testing

**Songdo Convensia, Incheon, Korea**  
**27-31 May 2024**



## 2023 was the year of NDT anniversaries in Hungary

2023 was an exceptional year in the life of the Hungarian Association for Non-Destructive Testing (MAROVISZ).

The Association celebrated its 25th, the MAROVISZ Personnel Certification Body its 10th and the MAROVISZ Training Ltd its 5th birthday. What a memorable but accidental coincidence.

The anniversaries were commemorated during the two-day conference and exhibition in Eger, Northern Hungary, where the Hungarian NDT community returned into real life from the virtual one caused by the pandemic. Diplomas were awarded to those who or whose company had demonstrated the commitment to the Association with their 25 years of continuous membership. In this festivity, the now traditional MAROVISZ Award was handed over to Dr. Gabor Por, an excellent representative of the Hungarian NDT scene. Representatives of

MAROVISZ's sister organizations like the Hungarian Welding Society and the Hungarian Association for Materials Testing congratulated to MAROVISZ too.

Peter Trampus, president, MAROVISZ

**Reported by MAROVISZ**



**Dr. Gabor Por, MAROVISZ Award winner giving his honorary lecture**



**The group photo of the 25-year membership award winners**

# Malaysian Society for Non-Destructive Testing (MSNT) Report for ICNDT

The Malaysian Society for Non-Destructive Testing (MSNT), established in 1989, is dedicated to advancing NDT’s scientific, engineering, and technical knowledge through various initiatives such as education, research, seminars, workshops, forums, and dissemination relevant information. As the appointed Malaysia Industry Lead Body (ILB) for NDT by the Department of Skills Development (DSD), Ministry of Human Resources, MSNT plays a crucial role in enhancing the recognition and practice of NDT in Malaysia.

### Successful Technical Talk on NDT-CE

MSNT became the supporting organization for the highly anticipated “NDT for Civil Engineering Inspection” Technical Talk, featuring two IAEA experts, Abel Domato Jayo, and Dario Foppoli, organized by the Malaysian Nuclear Agency. The event facilitated insightful discussions on the intersection of NDT and Civil Engineering (NDT-CE). The active participation of attendees and the excellent organization of the Malaysian Nuclear Agency contributed to making this event a shining success.



“NDT for Civil Engineering Inspection” Technical Talk, supported by MSNT, held at Malaysian Nuclear Agency

### E-Mobility Asia (EMA) 2023 Participation

MSNT actively participated as an exhibitor, presenter, and forum panelist at the E-Mobility Asia

(EMA) 2023 event held at the Kuala Lumpur Convention Centre from November 22 to 24, 2023. Supported by the Electric Vehicle Association of Malaysia (EVAM), EMA 2023 focused on sustainable electromobility, particularly electric vehicles (EV). MSNT embraced this opportunity to engage with industry leaders, technology experts, and enthusiasts, contributing to the discourse on the latest trends and advancements in the EV sector.



MSNT participated as EMA 2023



MSNT President Dr. Ilham Mukriz as one of the panelists in a Dialogue at the EMA 2023

## Malaysian Society for Non-Destructive Testing (MSNT) Report for ICNDT

### 8th National Seminar on Materials and Structural Integrity

The 8th National Seminar on Materials and Structural Integrity was a significant event supported by MSNT. Puan Ruziah binti Haji Shafei, Deputy Secretary General (Planning and Science Enculturation), Ministry of Science, Technology, and Innovation (MOSTI), delivered the opening speech. The seminar featured comprehensive keynotes and presentations covering a wide range of materials and structural integrity topics. MSNT's Vice President and Treasurer were invited to speak at the 8th National Seminar on Materials and Structural Integrity held at the Grand Paragon Hotel, Johor Bahru. This involvement underscored MSNT's commitment to actively contributing to and engaging with events that promote knowledge and collaboration within the NDT community.



**MSNT Treasurer at the 8th National Seminar on Materials and Structural Integrity**

### 7th Malaysia International NDT Conference and Exhibition (7th MINDTCE)

MSNT is organizing the 7th Malaysia International NDT Conference and Exhibition (MINDTCE) on 20 and 21 August 2024 at the Grand Lagoon Ballroom, Sunway Resort Hotel. 7th MINDTCE is a significant

event that brought together NDT experts, professionals, manufacturers, suppliers, and service providers. The 7th MINDTCE offers slots for presentations and 49 booths. Until this report is written, the 7th MINDTCE has only seven available booths. The 7th MINDTCE with a theme, Breaking Barriers: A Journey into Next-Gen NDT Solutions, aimed to facilitate the exchange of ideas, insights, and advancements within the NDT community, contributing to the growth and recognition of the industry. For any inquiries, please email [secretariat@mindtce.com.my](mailto:secretariat@mindtce.com.my) and visit the MINDTCE website: <https://mindtce.com.my/>.



### Conclusion

MSNT's commitment to advancing NDT practices in Malaysia is evident through its active participation in key events, technical talks, seminars, and the organization of conferences. These initiatives align with the society's objectives and contribute to the growth and recognition of NDT in the region. MSNT looks forward to continuing its engagement and collaboration with the global NDT community.

**Reported by MSNT**



# Information on the FCNDT 2024

The 1st Formosa Conference on Nondestructive Testing (FCNDT 2024), organized by the Society for Nondestructive Testing & Certification of Taiwan (SNTCT), is scheduled for October 3-4, 2024. FCNDT will take place in the historically significant Tainan City, Taiwan, renowned for its rich cultural heritage and diverse culinary delights.

This year's conference invites professionals from across the industry and academia to actively participate, connect, and collaborate. The call for paper is now open. Please find the detailed information at <https://www.sntct-eng.org/fcndt2024>.

Reported by SNTCT



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### Focus and Scope

Mechanical Engineering	Electronics and Electrical Industry	Aerospace Engineering
Petrochemical Industry	Rail Transportation and Traffic Industry	Advanced Manufacturing
Energy Industry	Infrastructure and Civil Construction	Biomedical Field

### Methods and Techniques

Acoustic Emission (AE)	Electromagnetic Testing (ET)	Infrared Testing (IRT)
Leak Testing (LT)	Magnetic Testing (MT)	Penetrant Testing (PT)
Radiographic Testing (RT)	Ultrasonic Testing (UT)	Visual and Optical Testing (VT/OT)
Structural Health Monitoring	Modeling and Simulation	NDT-General
Personnel Training and Certification	Quantitative NDT	Standardization
Wind Turbine (WT)	NDE 4.0 / AI	Biomedical Testing

### Submission Guideline and Important Dates

Participants can submit papers for  
 (a) paper competitions or (b) regular publications.  
 Each submission could be for  
 (1) oral presentation or (2) poster presentation.

#### Guideline of paper length:

- (a1) Oral paper competition: 10–12 pages.
- (a2) Poster paper competition: 2–12 pages.
- (b1) Oral regular paper: 3–12 pages.
- (b2) Poster regular paper: 2–12 pages.

#### Important Dates:

- \* Paper Submission Deadline : 8/15, 2024
- \* Announcement of Paper Acceptance : 8/30, 2024
- \* Final Paper Submission Deadline : 9/10, 2024
- \* Last Day of Early-Bird Registration : 8/15, 2024

#### Venue

International Conference Hall,  
 National Cheng Kung University (NCKU)  
 1 University Rd., East Dist., Tainan, Taiwan

SNTCT : <https://www.sntct-eng.org/>  
 Contact Person : Prof. Po Ting Lin, NTUST, Taiwan  
 Email : [potinglin@mail.ntust.edu.tw](mailto:potinglin@mail.ntust.edu.tw)  
 Phone : +886-983-033-147



(FCNDT Website)

Version 07 (Updated at 03/01/2024)



## News from Abendi

### Here comes the 3rd edition of the JTCI – the Technical Knowledge Journey in Inspection and Exhibition

The event promoted by Abendi will present the latest technologies, innovations and practical experiences related to NDT, Inspection and Integrity Management themes applied to the Oil & Gas segment (onshore and offshore). In addition, it will be an opportunity for professional updating and business generation. The JTCI will take place on August 22nd and 23rd, 2024, in São Paulo, Brazil. Engineers, specialists, technicians, researchers, teachers and students will be, face to face, debating and sharing technical experiences in lectures and round tables. To participate, visit: <https://jtci.org.br/>.



### Abendi – The Brazilian Society for Non-Destructive Testing will celebrate 45 years of history.

On March 27th, Abendi will celebrate its 45th anniversary. Technical-scientific entity is a provider of technological value solutions for companies and people through innovation and dissemination of knowledge in the areas of Integrity Management, Inspection, Non-Destructive Testing, Quality and Safety, with the aim of Preserving Life and the Environment. Over these 45 years, the entity has grown and started to operate nationally and internationally in six major areas: Learning and Development; Qualification & Certification; Development of Technical Standards and Recommended Practices; Strategic Diagnosis, Projects and Solutions of Innovation and Technology; Technical Committees and Diffusion of Knowledge.

Abendi celebrates not only a consolidated history, but also the renewal of the commitment to work for the valorization of Non-Destructive Testing professionals as well as being catalysts of progress and drivers of technical-scientific development. More information about the highlights of this celebration can be found on the Abendi website <https://www1.abendi.org.br/>.

Reported by Abendi



## ASNT Update

**A**SNNT is launching ASNT Connect—an exciting new online community to provide a platform for ASNT members, certificate holders, and customers to connect, seek answers, share expertise, and build valuable connections. With ASNT Connect, you can network, learn, and engage in meaningful discussions about all things NDT.

ASNT is releasing a new and improved online buyers guide, connecting buyers with NDT suppliers. Find customers earlier in the sales cycle with the ASNT Buyers Guide—a comprehensive platform that serves as a content-rich hub where prospective clients will find NDT solutions, including equipment, services, consulting, and training. Seamlessly integrating searchable directories with content marketing, advertising, and customer engagement opportunities, the ASNT Buyer's Guide offers a unified solution for businesses looking to reach their target audience.

ASNT is looking for the next generation for the RISE Leadership Development Program. (NDT) professionals with less than ten years of experience are encouraged to apply to the ASNT RISE Leadership Development Program. This unique, year-long journey is designed to shape the NDT leaders of tomorrow. The program consists of in-person and online training, active event participation, and mentorships with seasoned industry leaders. Participants will enhance their leadership skills while forming a collegial learning community with their peers. [www.asnt.org/rise](http://www.asnt.org/rise).

ASNT looks forward to the 20th World Conference on Nondestructive Testing. ASNT will be exhibiting, presenting two technical sessions with one on quality and another on ASNT 9712 program, and other participation.

The International Conference and Exhibition on NDE (ICENDE) will be co-hosted by ASNT India and the

ASNT India Section. The three-day conference will offer presentations and technical sessions from eminent specialists, with actual case studies and practical industrial applications covering various industry sectors, including oil and gas, power, mining, aerospace, and transportation. This event will offer a platform to interact, exchange information, and share knowledge, best practices, trends, and issues. Visit <https://icende.in> for more information.

### ASNT Events

ASNT will be hosting the following events in 2024. Visit [asnt.org/events](http://asnt.org/events) for more information.

- 16 – 18 April 2024 – Advanced Imaging for NDT; Cincinnati, OH
- 7 – 10 May – 2024 – MFPT Annual Conference; Virginia Beach, VA
- 24 – 28 June 2024 – 32nd Research Symposium; Pittsburgh, PA
- 21 – 24 October – ASNT 2024; Las Vegas, NV

**Reported by ASNT**



India | India Section

INTERNATIONAL CONFERENCE & EXHIBITION ON NDE

# ICENDE - 2024

22<sup>nd</sup>, 23<sup>rd</sup> & 24<sup>th</sup> August 2024

Venue: Ramoji Film City, New Princess Convention  
Hall 1 & 2 Hyderabad, Telangana - 501512

# Calendar of NDT Events 2024 - 2026

Date	Location	Event Title	Information
27-31 May 2024	Incheon, Korea	20th WCNDT	<a href="https://20thwcndt.com/">https://20thwcndt.com/</a>
10-13 June 2024	Potsdam, Germany	EWSHM 2024	<a href="https://www.ewshm2024">https://www.ewshm2024</a>
11-13 June 2024	Ontario, Canada	NDT in Canada 2024	<a href="https://www.cinde.ca">https://www.cinde.ca</a>
20-21 Aug. 2024	Selangor, Malaysia	7th MINDTCE	<a href="https://mindtce.com.my/">https://mindtce.com.my/</a>
18-20 Sep. 2024	Potsdam, Germany	EWGAE 2024	<a href="https://www.ewgae2024.com">https://www.ewgae2024.com</a>
15-18 Oct. 2024	Beijing, China	The 3rd WCCM	<a href="https://www.wccm2021.com">https://www.wccm2021.com</a>
21-24 Oct. 2024	Nevada, USA	ASNT 2024	<a href="https://www.asnt.org">https://www.asnt.org</a>
12-14 Nov. 2024	Beroun, Czech Republic	54th NDE for Safety 2024/Defectoscopy 2024	<a href="https://cndt.cz/konference">https://cndt.cz/konference</a>
12-14 Dec. 2024	Chennai, India	NDE 2024	<a href="#">NDE2024 Flyer</a>
3-6 March 2025	Bengaluru, India	The Third International Conference on NDE 4.0	<a href="https://isnt.in">https://isnt.in</a>
9-12 June 2025	Niagara Falls, Canada	The 8th PANNDT	<a href="https://www.panndt.org">https://www.panndt.org</a>
6-9 Oct. 2025	Florida, USA	ASNT 2025	<a href="https://www.asnt.org">https://www.asnt.org</a>
11-14 May 2026	Hawaii, USA	APCNDT 2026	<a href="https://apcndt2026.com/">https://apcndt2026.com/</a>
15-19 June 2026	Verona, Italy	The 14th ECNDT 2026	<a href="#">ECNDT 2026</a>
12-15 Oct. 2026	Ohio, USA	ASNT 2026	<a href="https://www.asnt.org">https://www.asnt.org</a>

# ICNDT Regional Groups

The European Federation  
for Non-Destructive Testing



EFNDT Secretariat

The British Institute for Non Destructive Testing  
(BINDT)



The Asia Pacific Federation  
for Non Destructive Testing



APFNDT Secretariat

The Japanese Society for Non Destructive Inspection  
(JSNDI)



The International Committee  
for Non-Destructive Testing



*The World Organisation for NDT*

ICNDT Secretariat

The British Institute for Non Destructive Testing  
(BINDT)



The Pan-American Federation  
for Nondestructive Testing



PANNDT Secretariat

Brazilian Association of Non Destructive  
Testing and Inspection  
(ABENDI)



African Federation  
of Non Destructive Testing



AFNDT Secretariat

South Africa Institute of Welding  
(SAIW)



# MEMO