

置CNDT JOURNAL

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ICNDT News P.2-3

ICNDT Chair's Message

Asia-Pacific Region

P.4-13

- 7th Malaysia International Non-Destructive Testing
 Conference and Exhibition (7th MINDTCE) by the
 Malaysian Society for Non-Destructive Testing (MSNT)
- Report NDE 2024 (ISNT)
- SINCE 2025 (NDTSS)

Pan-American Region

P.14-15

ASNT Update

Calendar of NDT Events

P.16



ICNDT Chair's Message

Reflections on Progress and Vision for the Future: Advancing the Frontiers of Non-Destructive Testing in 2024

As we approach the conclusion of 2024, it is with great pride and optimism that I reflect upon the remarkable advancements and collaborative efforts that have propelled the field of Non-Destructive Testing (NDT) to new heights this year.

A highlight of 2024 was the successful convening of the World Conference on Non-Destructive Testing (WCNDT) in June. After an eight-year hiatus, professionals from around the globe gathered to share knowledge, strengthen existing relationships, and forge new connections. The conference featured a wide range of presentations, workshops, and exhibitions showcasing the latest advancements in NDT technology, leaving participants with a renewed sense of enthusiasm and inspiration to continue pushing the boundaries of NDT innovation.

Technological Innovations Driving the Industry Forward: This year has witnessed significant technological advancements that are reshaping the NDT landscape:

- AR has revolutionized inspections by providing technicians with real-time data overlays and enhanced visualization, improving accuracy and efficiency across various applications, including weld and structural inspections.
- The incorporation of AI and ML algorithms into NDT processes has automated data analysis, enabling quicker and more precise defect detection, thereby enhancing overall inspection efficiency.
- Advancements in Digital Radiography and Ultrasonic Testing: Developments in these areas have led to higher resolution imaging and improved sensitivity, contributing to more accurate assessments of material integrity.

In 2024, the International Committee for Non-Destructive Testing (ICNDT) has been instrumental in fostering global collaboration within the NDT community. By serving as a central platform for uniting societies, organizations, and professionals, ICNDT has driven the growth and innovation of Non-Destructive Testing across industries worldwide.

Through initiatives such as bilateral partnerships, the signing of Memoranda of Understanding (MOUs), and the alignment of global mutual recognition certification frameworks through ICEC, ICNDT has ensured that the collective efforts of NDT societies are strategically coordinated. These partnerships have enabled knowledge sharing, standard harmonization, and collaborative research, addressed shared challenges and advancing the field as a whole.



ICNDT Chair's Message

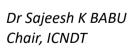
ICNDT's leadership has empowered member societies to pool resources and expertise, creating a robust network committed to safety, reliability, and technological excellence. By placing collaboration at the forefront, ICNDT continues to lead the way in building a more interconnected and forward-thinking global NDT community.

Commitment to Sustainability: The industry has shown a growing focus on sustainable NDT practices, including the development of eco-friendly inspection methodologies and energy-efficient equipment. This shift aligns with global efforts to reduce environmental impact and reflects our commitment to responsible industry practices. The working group (WG 3) will look into these efforts while overseeing education & research.

Looking ahead, the newly elected ICNDT Executive Committee (IEC), with dynamic leadership representing diverse regions, is poised to usher in an era of innovative ideas and transformative initiatives in 2025. This leadership team is committed to exploring emerging technologies, fostering global inclusivity, and enhancing the value of NDT for all stakeholders. Together, we are ready to embrace new opportunities and set bold aspirations that will further solidify ICNDT's role as a driving force in the evolution of Non-Destructive Testing worldwide.

This year's achievements are a testament to ICNDT's pivotal role in shaping the future of NDT, ensuring that together, we reach new heights of innovation and progress. I extend my heartfelt gratitude to all IEC members & National Society Presidents for your unwavering dedication and contributions. Together, we will continue to advance our field, ensuring the highest standards of safety, reliability, and innovation.

Wishing you all a prosperous and fulfilling 2025.





ICNDT Chair, Non-Destructive Testing Society Singapore (NDTSS)



The 7th Malaysia International NDT Conference and Exhibition (MINDTCE), held from 19 to 21 August 2024 at the Sunway Resort Hotel, Malaysia, is a milestone Non-Destructive Testing (NDT) event. Organized by the Malaysian Society for Non-Destructive Testing (MSNT), this event brought together NDT professionals, industry experts, and leading organizations to discuss the latest advancements in NDT technologies and practices, reflecting its growing importance in a wide range of industries globally.

With the theme, "Breaking Barriers: A Journey to Next-Gen NDT Solutions," the 7th MINDTCE focused on showcasing innovative solutions and emerging technologies that address the challenges and demands faced by modern industries. The event attracted over 1300 participants from over 25 countries, including key stakeholders from oil and gas, petrochemical, construction, aerospace, manufacturing, and power generation sectors. This broad representation reflects the importance of NDT across various fields, where safety, reliability, and efficiency are paramount.

Conference Highlights

The 7th MINDTCE delivered a well-rounded program featuring plenary sessions, technical presentations, and an expansive exhibition showcasing the latest NDT equipment and services innovations. Throughout the event, 41 presentations were delivered, covering a wide array of topics that underscored NDT's dynamic and evolving landscape. These topics included advanced NDT methods, digital imaging technologies, industrial applications, NDT for civil engineering, and NDT for additive manufacturing. The presentations offered attendees invaluable insights into cutting-edge technologies and practical applications, emphasizing how NDT can enhance quality control and safety across various industries.

Critical discussions also covered specialized topics like Phased Array Ultrasonic Testing (PAUT), its growing application in the industry, and using magnetic methods for wire rope inspections. These technologies are critical in ensuring the integrity and safety of industrial components. Additionally, the conference highlighted the importance of certification for NDT personnel, reflecting the industry's focus on upskilling and maintaining high competency standards in line with international requirements.

The plenary sessions, led by esteemed international experts, provided a forward-looking perspective on the future of NDT. Prominent topics included Digital and Imaging NDT Technologies, NDT 4.0, Safety and Security of Industrial Radiography Sources, and NDT for Composites. These discussions emphasized the growing significance of digital transformation within the field, particularly with advancements in automation, data analytics, and machine learning. The introduction of NDT 4.0, which encompasses the Internet of Things (IoT), artificial intelligence (AI), and big data, is set to revolutionize how NDT is applied across modern industries.

In addition to these technical sessions, the conference explored future trends in NDT and its vital role in ensuring safety and reliability in critical sectors such as construction, aerospace, and energy. The event underscored the potential of NDT to drive innovation and elevate industry standards, safeguarding the integrity of structures and systems while enhancing operational safety and efficiency.





Exhibition: A Showcase of Cutting-Edge NDT Technologies

The exhibition held alongside the conference was another key highlight of the event. Forty-two exhibitors participated, occupying 59 booths representing leading NDT equipment manufacturers, service providers, and research institutions. The exhibition floor featured the latest NDT technology, from portable ultrasonic flaw detectors to advanced digital radiography systems. Companies demonstrated innovative solutions to increase the precision and speed of defect detection, which is critical for industries such as aerospace, oil and gas, and manufacturing.

The presence of PETRONAS, Malaysia's national oil and gas company, was particularly notable. PETRONAS not only had the highest number of participants at the event but also presented various topics on NDT's role in ensuring operational safety and efficiency. This highlighted the company's continued commitment to advancing NDT technologies in the region.

Industrial Engagement Programme(IEP2024)

In conjunction with the 7th Malaysia International Non-Destructive Testing Conference and Exhibition (MINDTCE), the 2024 Industrial Engagement Programme (IEP 2024) took place on 19 August 2024, centered on the theme "Advancing Occupational Structures: NDT Excellence Under ISO 9712." Organized by the Division of Occupational Standards and TVET Curriculum (BSPKTVET) in collaboration with the MSNT, this event gathered key stakeholders from the industry to explore the pivotal role of ISO 9712 in improving the certification and standardization of NDT personnel in Malaysia. Ir Ts Dr Azmi bin Ahmad, Deputy Director General (Development) of the Department of Skills Development (JPK), officially inaugurated the event. The program featured insightful presentations from three prominent industry experts. Dr Abd. Nassir bin Ibrahim, former President of MSNT, delivered a

thought-provoking presentation titled "Exploring NDT Certification: Tracing Historical Milestones in International Recognition Through ISO 9712," which offered a historical overview of NDT certification. Mr Wan Abdullah bin Hamat from PETRONAS shared valuable insights through his presentation, "Beyond Standard – PETRONAS' Quest for Competent NDT Personnel," highlighting the importance of competence in NDT practices. Meanwhile, Mr Alamin bin Pardi from Epic Aero presented "Setting Standard Sky-High: The Need for Malaysia's Aerospace NDT Certification Scheme," which focused on developing NDT certification specifically for the aerospace sector.

Additionally, Pn Salbiah Hussein from BSPKTVET delivered an informative session on the Occupational Framework (OF), National Occupational Skills Standard (NOSS), and SKM NDT certifications, linking them to international standards such as ISO 17024 and ISO 9712. Her presentation, "Enhancing Excellence: OF, NOSS, and SKM in the NDT Industry," provided a comprehensive overview of certification structures and their critical connection to global standards.

In the afternoon, a dynamic forum titled "NDT Certification: Global Perspectives and Industry Insights" was conducted by Dr Mohd Noorul Ikhsan, featuring a lively discussion with panelists. The forum addressed numerous industry questions, including how OF and NOSS contribute to elevating the standards of SKM NDT certification in Malaysia and the challenges faced by JPK in maintaining this certification according to international benchmarks.

The IEP 2024 was officially closed by Dr Ilham Mukriz, President of MSNT. More than 150 participants attended the event, making it a resounding success. The shared knowledge, experiences, and insights are expected to benefit NDT professionals and stakeholders significantly, helping further elevate the industry's standards and certification practices in Malaysia.



Networking and Collaboration

One of the key strengths of the 7th MINDTCE was its ability to foster collaboration and networking among participants. The conference provided ample opportunities for attendees to connect with peers, industry leaders, and researchers worldwide. The presence of delegates from organizations such as the Asia Pacific Federation for Non Destructive Testing (APFNDT), the Non-Destructive Testing Society (Singapore) (NDTSS), the Japanese Society for Non-Destructive Inspection (JSNDI), and the Indian Society for Non-destructive Testing (ISNT) further enriched the event, as they contributed valuable international perspectives on the future of NDT.

A memorable highlight was the acknowledgment of individuals who had made significant contributions to the NDT field, with a special Gratitude Award from APFNDT presented during the opening ceremony. This recognition celebrated their dedication to advancing NDT technologies and practices in Malaysia and Asia-Pacific.

Looking Forward

As the 7th MINDTCE comes to a close, MSNT looks forward to continuing its mission of promoting excellence in NDT through education, certification, and industry collaboration. The event's success is a testament to the growing importance of NDT in industries worldwide and its vital role in ensuring safety, quality, and operational efficiency. With the connections made, knowledge shared, and technologies showcased, the 7th MINDTCE has undoubtedly set the stage for future advancements in NDT. MSNT is excited to build on this momentum and continue to lead the way in fostering innovation and excellence in NDT practices for the betterment of industries and society. MSNT published a special edition e-Newsletter covering the 7th MINDTCE, highlighting all aspects of the conference and exhibition. MSNT wishes to thank everybody from visitors, speakers, sponsors, and volunteers who supported the 7th MINDTCE and made this event successful.



MSNT President receiving a commemorative ICNDT banner from the ICNDT Chair



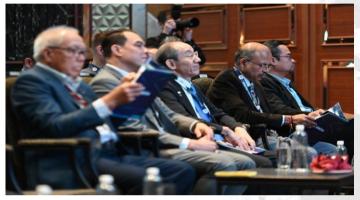
Participant of the 7th MINDTCE



Participant of the 7th MINDTCE



Participant of the 7th MINDTCE



Dr Takamasa Ogata (APFNDT President) and Prof. Krishnan Balasubramaniam (APFNDT Vice President & Indian Society for Non-destructive Testing (ISNT) President) were sitted together with the 7th



7th MINDTCE exhibition



7th MINDTCE exhibition



7th MINDTCE opening ceremony by Tan Sri Dr Ir Ahmad Ahmad Tajuddin Ali, FASc



7th MINDTCE exhibition



7th MINDTCE exhibition



Dr Nassir, the 7th MINDTCE chairman, delivered his speech

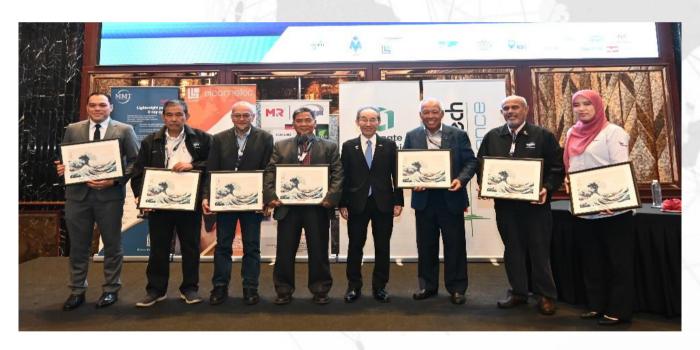


Asia Pacific Federation for Non Destructive Testing (APFNDT) Gratitude

During the 7th Malaysia International NDT Conference and Exhibition (MINDTCE), a significant moment unfolded during the opening ceremony with the presentation of the Asia Pacific Federation for Non Destructive Testing (APFNDT) Gratitude to Malaysians who have contributed exceptionally to advancing the NDT field, particularly in Malaysia and Asia-Pacific. The APFNDT Gratitude acknowledges these individuals' relentless dedication, technical expertise, and leadership in fostering the growth of NDT technologies, standards, and practices across the region.

The APFNDT President presented this prestigious award, emphasizing the crucial role played by the recipients in elevating NDT within their respective industries. Their efforts have enhanced the safety and reliability of critical infrastructure and industrial applications and set new benchmarks for NDT excellence on a global scale.

This award highlights the Asia-Pacific NDT community's deep collaboration and knowledge exchange. As Malaysia continues to strengthen its leadership in NDT, the contributions of these individuals resonate throughout the region, fostering innovation, nurturing talent, and ensuring the continued evolution of NDT technologies for the benefit of industries and societies alike.



Recipient of Asia Pacific Federation for Non Destructive Testing (APFNDT) Gratitude (from left), Dr Ilham Mukriz Zainal Abidin (MSNT 3rd President), Dr Ab Razak Hamzah (Freelance Consultant, MSNT BOD), Mr Wan Abdullah Wan Hama (PETRONAS), Dr Abd Nassir Ibrahim (MSNT 2nd President), Dr Takamasa Ogata (APFNDT President), Tan Sri Dr Ir Ahmad Tajuddin Ali, FASc. c. (MSNT 1st President), Dr Khazali Haji Mohd Zin (Madani Training & Consultancy Sdn Bhd), Mrs. Salbiah Hussein (Principal Assistant Director, Jabatan Pembangunan Kemahiran - JPK Putrajaya), Dr Azali Muhammad (Madani Training & Consultancy Sdn Bhd) (Not in the picture)



MSNT Special Edition e-Newsletter on 7th MINDTCE



Reported by MSNT



Report NDE 2024 (ISNT)

The 34th Annual Conference and Exhibition on Non-Destructive Evaluation (NDE 2024) organised by the Indian Society for Non-Destructive Testing (ISNT), was held at The Chennai Trade Centre, between 12th and 14th Dec 2024. The grand event was inaugurated by Shri Anil Parab, Whole Time Director & Sr. Vice President, and Larsen & Toubro. Shri U. Subba Rao, General Manager, ICF and Shri H. Shankar, Managing Director & Director, Technical, Chennai Petroleum Corporation Limited, were the Guests of Honor at the inaugural function.

The theme of the conference: -



- The inauguration program started with Convenor of the conference **Shri. Umakanth Anand** welcoming the guests, Exhibitor / Sponsor representatives and all delegates at the conference.
- ➤ ISNT President Prof. Krishnan Balasubramanian in his speech highlighted the intent of the conference and the other activities.
- ➤ The chairman of the conference Mr. Komal Kapoor highlighted the significant and unique features of the 3-day event.
- > Shri Anil Parab, while addressing the delegates highlighted the importance of Non-Destructive Evaluation Technologies for all sectors of industry.
- > Shri U. Subba Rao, in his address stressed about the need and relevance of NDT in Railways and quoted the success of Vande Bharat.
- > Shri H. Shankar, Director, CPCL also highlighted the importance NDT in Oil & Gas sector.
- ➤ The Annual ISNT Awards was announced by Shri R. Vivek, Hon. Gen. Secretary-ISNT. Shri Anil Parab, Chief Guest distributed the Awards to the winners during Inaugural function.

The exhibition was inaugurated by guest of honor Shri U Subba Rao. The total number of exhibition stall were around 125, with both national & around 20 international participants, demonstrating all the latest development in NDE instruments, Machines, and technology.

M/s. Waygate were the Principal Sponsor.

Shri. S. Subramanian, Co-Convener delivered the vote of thanks.



Report NDE 2024 (ISNT)

After the inaugural function the following two memorial talks were delivered.

<u>Ramesh Bhai Parikh Memorial</u> Talk delivered by Shri U. Subba Rao, GM, ICF, on "<u>Evolution of Integral Coach Factory</u> - <u>Vande Bharath a journey</u>"

<u>Dr. Baldev Raj Memorial</u> talk was delivered by Prof. Satish Udpa, Michigan State University, USA on "Novel Methods for Improving the Quality of Additively Manufactured Components."

The 3 days conference was attended by more than 900 enthusiastic delegates from India and abroad from various academic institutions, R&D Institutions, Public and private sector industries, Defence, Space, Nuclear, Oil & Gas, Civil Infrastructure, Manufacturing, Aerospace, Aviation, Automotive, Power, Railways, Shipping, and Chemical Fertilizer etc.

The 3 days' conference had a footfall of more than 1500 visitor.

In addition to the above, the conference had 166 contributory papers, 8 plenary talks, 29 invited talks (Scientific), 18 invited talks (industry), 4 Industry sessions and 5 invited talks (student session) and total 232 talks, Student session on NDE, Special session on ICN (Indian version of ISO 9712), special session on EV batteries.

In the valedictory function, Key contributors of NDE 2024 were felicitated during the event and best paper, best sponsorship and exhibitors were announced.

The NDE 2025 is going to be held in Mumbai, India – December 11th to 13th. Venu: Jio World Convention Centre.



Reported by ISNT



SINCE 2025: 5th Singapore International Non-Destructive Testing Conference & Exhibition

The 5th Singapore International Non-Destructive Testing Conference & Exhibition (SINCE 2025) was successfully held on February 27-28, 2025, at the Holiday Inn Singapore Atrium. This prestigious biennial event has solidified its reputation as a premier platform for advancing knowledge, fostering collaboration, and promoting innovation within the Non-Destructive Testing (NDT) industry.

SINCE 2025 brought together a diverse global community of NDT professionals, including plant owners, manufacturers, mechanical contractors, and inspection organizations. It provided an invaluable opportunity for networking, knowledge-sharing, and forging partnerships that push the boundaries of NDT technology. Participants from 20 different countries attended this event.

The theme for this year, "Driving Safety and Sustainability through NDT," underscores the critical role NDT plays in ensuring the reliability, safety, and longevity of infrastructure and industries worldwide. The event featured distinguished keynote speakers, technical experts, industry leaders, and leading exhibitors, offering a dynamic environment to explore cutting-edge advancements in NDT, including NDE 4.0, automation, digitalization, signal processing, and new inspection techniques.

In addition to the main conference, the event also hosted the *ICNDT Annual Meeting* for the first time in a hybrid format in Singapore. The *APFNDT Board Meeting* and *APFNDT General Assembly* meetings were also conducted as hybrid sessions, further enhancing global participation.

Here are some key statistics from the event:

- Total number of conference attendees: 146
- Number of exhibitors: 25
- Total number of exhibition visitors: 290
- Total Conference & Exhibition attendees: 436

SINCE 2025 successfully served as a catalyst for advancing NDT technologies and reinforcing the importance of safety and sustainability across industries.



Report By,
P. Pugalendhi
General Secretary - APFNDT / NDTSS



SINCE 2025 Photos



















ASNT Update

ASNT 2024 (the Annual Conference) was held 21 to 24 October 2024 in Las Vegas, Nevada. It was a tremendous success! NDT professionals from around the world gathered to connect and learn with attendees representing 49 countries, 8 Canadian provinces, and 44 states. There were over 2,100 attendees, 127 presenters and 220 exhibitors. Several new initiatives were announced at the event.

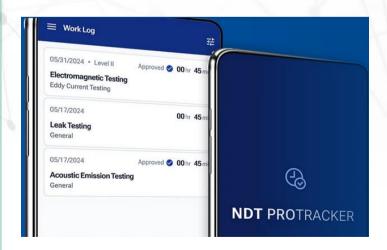


ASNT will launch a new membership structure in January 2025. The new structure will incorporate what we learned in our research on association membership over the past year: members have vastly different wants and needs when it comes to their membership. With the new model, dues will now reflect engagement levels, making membership simpler and more flexible for everyone.

ASNT introduced ANITA, ASNT's new AI-powered assistant designed to provide instant access to nondestructive testing (NDT) knowledge and expert guidance. ANITA is based on software by Betty Bot, an AI-powered knowledge assistant designed specifically for associations. Built on innovative generative AI technology, Betty Bot uses natural language processing to transfer knowledge and facilitate learning in a way that feels intuitive and human-like.



Also showcased at the conference was NDT ProTracker, an exclusive new member benefit set to revolutionize the way NDT professionals manage professional development. This app will keep track of your on the job, training, and lab hours. Get complimentary access to this progressive web app designed to empower their careers through 31 December 2024. After that it will become a member benefit. Visit ndtprotracker.com to activate your benefit and elevate your NDT career with NDT ProTracker.





ASNT Update

ASNT Certification Services is currently undergoing beta testing for its new accreditation process for NDT training organizations in the United States to become an Authorized Training Organization (ATO). This initiative aims to elevate the standards and quality of NDT training. Stay tuned for more details. It is expected to launch by the end of the year.

In August, an ASNT delegation attended the ICENDE 2024 conference in Hyderabad with almost 500 people in attendance, and with more than 40 exhibitors and sponsors present. This was an outstanding event co-organized by the ASNT India Section and the ASNT India staff and every year sets records for attendance and exhibits. The next ICENDE 2025 will be in the resort destination of Goa in August 2025.

ASNT is seeking individuals to fill four Director seats on the Board of Directors. If you are equipped with technical competencies, possess business acumen honed from senior-level roles in international organizations, and have a passion for fostering growth within ASNT, please apply by visiting ASNT website.





ASNT Upcoming Events

ASNT Rewind 19 March 2025 Online

Machine Failure Protection Technology Annual Conference 20-22 May 2025 Virginia Beach VA

Advanced Imaging for NDT 20-22 May 2025 Virginia Beach VA

ASNT Research Symposium 23-27 June 2025 Indianapolis IN

ASNT 2025 (Annual Conference) Access Granted 6-9 October 2025 Orlando FL

17th Asia Pacific Conference on Nondestructive Testing (APCNDT) 11-15 May 2026 Honolulu HI

Reported by ASNT





Calendar of NDT Events 2025 - 2026

Date	Location	Event Title	Information
9-12 June 2025	Niagara Falls Canada	The 8th PANNDT	https://www.panndt.org
23-27 June 2025	Indiana Convention Center IN, USA	The 33rd ASNT Research Symposium	https://asnt.eventsair.com/rs 2025/
14-18 July 2025	Harbin Institute of Technology Harbin, China	The 5th Asian Quantitative Infrared Thermography Conference (QIRT Asia 2025)	https://www.chsndt.org/qirta isa/
9-11 Sep 2025	Edinburgh International Conference Centre (EICC), UK	NDT 2025 and CM2025 Conferences	https://www.bindt.org/events -and-awards/ndt-2025/
6-9 Oct. 2025	Disney Coronado Springs Resort, Orlando, FL, USA	ASNT 2025	https://www.asnt.org/Events
4-7 Nov 2025	Nagoya Convention Hall & Hybrid Studio Nagoya, Japan	IIIAE 2025	https://iiiae.org/
11-15 May 2026	Hilton Hawaiian Village HI, USA	APCNDT 2026	https://apcndt2026.com/
19-21 May 2026	Lyon Congress Center Lyon, France	COFREND DAYS 2026	https://www.cofrend.com/jc ms/prd_961535/fr/journees- cofrend-2026
15-19 June 2026	Veronafiere Conference Centre Verona, Italy	The 14th ECNDT 2026	https://www.ecndt2026.org/
12-15 Oct. 2026	Columbus OH, USA	ASNT 2026	https://www.asnt.org/Events

ICNDT Regional Groups

The European Federation for Non-Destructive Testing



EFNDT Secretariat

Asociación Española de Ensayos No Destructivos (AEND)



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

