



The World Organisation for NDT

Volume 9 Issue No 6

September 2019

CHAIR'S MESSAGE

Global NDT outreach breaking economic uncertainties

Members of ICNDT, thank you for your support on my third year leading the international organisation. I had great support from Dr Farley during the transition, which helped to continue the operations of ICNDT.

We have crossed the midway mark of 2019; the world has been through major trade tensions, which has disrupted growth. With uncertainty high and confidence low, investment has suffered and various industries have taken a hit; however, the service quality needs are increased due to great demand in standard-related and technological changes. The NDT sector is continually growing against this uncertainty. National societies should gear up to cater to multiple industry segments.

ICNDT started its year with an IEC and annual meeting, which were held in Glasgow. The new fee structure was implemented this year and I would like to thank all of the Group A members for their significant contribution to the growth of ICNDT and its activities.

A slight growth has been seen in ICNDT MRA Schedule 1 signatories and Schedule 2 registration, an updated list of which can be downloaded from the ICNDT website.

This year I was able to attend a Scottish Branch meeting of the British Institute of Non-Destructive Testing (BINDT) and deliver a presentation. I was also able to attend the inauguration of the DACH conference, a regional conference held in Europe for German-speaking nations (organised by the national societies of Austria, Germany and Switzerland), which was well attended. This year, the conference featured an exhibition, which was well attended by manufacturers as well. I also attended the opening of the Canadian Institute for Non-Destructive Evaluation (CINDE) Annual Conference in Edmonton, Canada.

WG3 meetings were held in May 2019 in Friedrichshafen, Germany, which were well attended and involved planning for the upcoming workshop on ICNDT Specialist Groups. ISO 9712:2012 is going through a detailed review by ISO/TC 135/SC7; the last meeting was held in Edmonton, Canada. ICNDT WG1 inputs are incorporated in the review process. Most of our ICNDT member representatives participated in the meetings. The next revision can be expected in late 2020 or early 2021.

The ICNDT Advisory Committee Meetings and WG1 meetings are expected to be held during the next Pan-American Conference for Nondestructive Testing (VII PANNDT), which will be held between 21-24 October 2019 in Mexico City.

The 20th World Conference on Non-Destructive Testing (WCNDT 2020) is taking shape and is to be held 8-12 June 2020 in Seoul, Korea. I would request that members distribute the call for papers in their country and promote the event for greater international participation. I expect to see more valuable papers concerning advanced NDT and Industry 4.0 in order to keep up with industrial changes.

I would also welcome every one of you to Singapore in December 2019 to participate in the World Congress for Condition Monitoring (WCCM 2019), which is supported by ICNDT WG6.

I wish you every success in your organisation for the rest of the year.

Ir Sajeesh K Babu, Chair, ICNDT



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Report on the recent activities of the ICNDT Certification Executive Committee

- The ICNDT Certification Executive Committee (ICEC) activities involve the Multilateral Recognition Agreement (MRA), conformity assessment of Personnel Certification Bodies (PCBs) and the Examination Question Bank (EQB). The ICEC carries out most of its work via email and the Internet and held the most recent online meeting on 15 May 2019.
- There are now 46 signatories to the MRA Schedule 1, which are generally national NDT societies. Other NDT societies that are not yet signatories are encouraged to join. There is continuing interest from personnel certification bodies (PCBs) in registering for the MRA Schedule 2. The Argentine Normalization and Certification Institute (IRAM) and TÜV Nord Czech have both recently been accepted for registration, which brings the number of current registrants to 15. Three other PCBs have submitted applications, which are under consideration.
- The MRA registration for the Brazilian Association of Non-Destructive Testing and Inspection (ABENDI) has recently been renewed following a successful PCB conformity assessment audit in November 2018.
- Recent meetings of ICEC discussed the maintenance and longer-term development of the ICNDT EQB and a new software specialist has been identified to take over the support. ICEC is considering a proposal to migrate the EQB to an online delivery system.
- ICNDT maintains a register of all known PCBs and this has recently been extended to indicate membership of the ICNDT and European Federation for Non-Destructive Testing (EFNDT) MRA. All PCBs that have provided new data are now listed in the public register on the ICNDT website.



ICNDT Journal



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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**

ICNDT meetings

The next meeting of ICNDT Working Group 1: Qualification and Certification will be held on Tuesday 22 October 2019 in conjunction with the 7th Pan-American Conference for Nondestructive Testing (VII PANNDT) at the CANACO Convention Center, Mexico City, commencing at 08h00.

There will be a meeting of the Pan-American Federation for Nondestructive Testing (PANNDT) on the same day at the same venue, commencing at 14h00.

It is hoped to also arrange a meeting of the ICNDT Advisory Committee during the same conference, details to be announced.

Your new ICNDT Journal is available to download from www.icndt.org

ICNDT Working Group 3 'Education and Research' to organise WCNDT sessions

The ICNDT Working Group 3 'Education and Research' has decided to organise sessions concerning special topics for the 20th World Conference on Non-Destructive Testing (WCNDT 2020), to be held in Seoul in 2020. The DACH Conference, a conference hosted by the German, Austrian and Swiss societies, was a good platform for members to come together, define the next steps and plan the number of sessions to be organised and the number of speakers needed. Working Group 3 activities are restricted to the NDT techniques and their applications as listed below (with those responsible given in brackets):

- NDT reliability: general reliability, human factors, model-assisted probability of detection (POD) and reliability parameters (D Kanzler and M Bertovic)
- Non-linear ultrasound (M Kreutzbruck and I Solodov)
- NDT 4.0 (B Valeske and J Vrana).



The opening ceremony of the DACH conference, held 27-29 May 2019

The discussion about the number of sessions required, the time available for each session and the structure delivered the following results: Working Group 3 is organising three sessions to be held during the 20th World Conference on Non-Destructive Testing (NDT reliability, non-linear acoustics and NDT 4.0), with a total length of 120 minutes available for each session. These three sessions have the same structure: a keynote speaker will talk for 30 minutes, after which three 20-minute presentations will be given and 30 minutes of discussion will then follow. The names of the speakers and the titles of the presentations will be distributed to Younho Cho, WCNDT President, Sajeesh Babu, ICNDT President, and Anton Erhard, Vice Chair of Working Group 3. Furthermore, the members of Working Group 3 will send on the 'official' presentations for human factors, model-assisted POD and reliability parameters.

*Anton Erhard
Vice Chair WG3*



The Chairs of the DACH societies – left to right: Gerhard Heck (Austria), Anton Erhard (Germany) and Peter Fisch (Switzerland)

EUROPE



WWW.ECNDT2022.COM



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News from the French Confederation for Non-destructive Testing

NDT Aerospace 2019

The 11th International Symposium on NDT in Aerospace, organised by the French Confederation for Non-destructive Testing (COFREND), together with CEA-LIST, will take place in Saclay, near Paris, France, from 13-15 November 2019. France, being one of the leading nations in aerospace technologies worldwide, is the hosting country this year. As each of the hosting countries has in years before, France will be making great efforts in its presentation regarding the national aerospace-related NDT activities.

The call for papers closed with nearly 120 being submitted. The Scientific Committee has just closed the peer review process and is now finalising the programme. Mornings will start with highly reputed keynote speakers who will hold lectures on topics covering industrial research and development challenges in Airbus and NASA, as well as structural health monitoring (SHM) and other applications expected in the future, such as artificial intelligence. Participants will thus be able to choose from 22 technical sessions, covering topics ranging from traditional NDT methods to SHM, simulation, design and production integration, data evaluation, components and material integration. There will be a student challenge in which eight teams will present on their assessment of a fairly complex carbon fibre-reinforced polymer (CFRP) component and how they might monitor implicit damage using an SHM-based approach. The integration of an exhibition into the symposium completes the programme, with 24 NDT materials and equipment vendors. Industrial site visits are also planned and on the afternoon of 15 November, Safran Aircraft Engines, ArianeGroup, Air France Research and Maintenance and Synchrotron Soleil will welcome participants to visit their NDT labs and centres. This exciting programme includes two social evenings, with an exclusive visit followed by a cocktail dinner at CEA-LIST in Saclay on 13 November and a gala dinner in an abbey with more than eight centuries of history on 14 November. All information relating to the venue and the programme is available on the event website: www.ndt-aerospace2019.com

For any questions, please contact: ndt-aerospace2019@cofrend.com

COFREND Days 2020

COFREND Days 2020 will be held in Marseille from 12-14 May 2020. Under the theme of 'NDT, see to foresee' (pledge of quality and safety), 2500 French and foreign participants are expected to attend the 10th gathering. Organised every three years, COFREND Days is the rendezvous of the whole profession: industrialists, major contractors, small and medium-sized companies and start-ups involved in NDT, whose scope covers all industrial sectors and advanced technologies within aeronautics, railways, civil engineering, nuclear power, petrochemicals and the iron and steel industry.

The city of Marseille was chosen for both the quality of the Palais Chanot facilities and its reception capacity and the influence of regional strategic industrial sectors, its university, its renowned research centres and its competitiveness clusters.

With the support of Ekoscan, Sofranel Group and Volume Graphics, COFREND Days features three days of presentations and exhibitions with a unique programme of highlights to connect exhibitors, researchers, scientists and visitors.

An exhibition will be at the heart of the congress and companies will be hosted in the exhibitors' village, which will be 4000 m², to provide visitors with an excellent opportunity to interact with industry and to experience the latest technological advancements. Already nearly 20 companies have confirmed their participation.

Reporting on the latest developments in NDT, application results and research will be presented in scientific plenary sessions, technical sessions and, for the first time, during an international session that will be exclusively in English. Another novelty is the integration into the event of the 4th edition of the Doctoriales, including the COFREND-BIRAC Prize.

The call for papers has been launched and authors are invited to submit their abstracts on the website by 15 November 2019.

Education and training are integral parts of COFREND Days and an open day will allow students of the region to discover NDT, trades and training courses. With the support of the French education institutions, Aix-Marseille University and the National Office for Information on Teachings and Professions (ONISEP), nearly 300 young students are expected on Wednesday 13 May at Palais Chanot. Friday 15 May will be dedicated to visits to industrial facilities and participants will have the privilege of visiting ITER-CEA Cadarache and Airbus Helicopters, to name a couple.

Congress files and information are available at www.cofrend2020.com or contact cofrend2020@cofrend.com

Phased Array Ultrasonic Testing of Welds in Thin-Walled Materials

KINT Symposium 2019

30-31 October 2019

Shell Technology and Research Centre,
Amsterdam

www.kint.nl/event

ÖGfZP 40-year anniversary

The Austrian Society for Non-Destructive Testing (ÖGfZP) is looking back on a successful 40 years of non-destructive testing (NDT).

It feels that the anniversary deserves to be celebrated in an appropriate and, above all, dignified setting. The conference is due to be held from 19-20 September 2019 in the Vienna Twin Tower with its members and all those interested in the work of the fZP.

The conference is intended to provide results from research and development of Austrian companies in an application-oriented manner and also to provide an insight into future developments.

Gerd Dobmann, Scientific Advisor to the Chair of Non-Destructive Testing and Quality Assurance at the University of Saarland, will do justice to this assignment with his keynote speech: '40 years ÖGfZP – an opportunity to make a prognosis for the future of fZP'.

The successful participation of the ÖGfZP in the compilation and implementation of NDT standards for the qualification of personnel is looked back on with the lecture: '40 years of standards-compliant qualification of fZP personnel in Austria'.

The ongoing activities on the standards platforms ISO/TC 135/SC 7, CEN/TC 138 and ICNDT WG1 will be presented.



11th International Symposium «NDT in Aerospace»



PARIS - SACLAY
NOVEMBER 13 TO 15, 2019

www.ndt-aerospace2019.com



COFREND and CEA list are pleased to welcome you in France for NDT in Aerospace, 2019.

The 11th international symposium on NDT in Aerospace will be held in Paris-Saclay France, November 13th to 15th, 2019.

Paris-Saclay place of the NDT in Aerospace 2019, brings together around a world-class academic pole, with higher education institutions, research organizations and technology small and medium companies. This scientific concentration makes the Paris-Saclay cluster, one of the most important innovation centers in the world.

Non-Destructive Testing and Evaluation (NDT&E) is one of the major requirements in aerospace structural design. Appropriate use of NDT guarantees safety in aerospace and is thus a subject of highest attention.

- 5 KEYNOTES LECTURE
- 109 COMMUNICATIONS IN 22 TECHNICAL SESSIONS
- 24 EXHIBITORS
- 8 TEAMS COMPETING TO THE STUDENTS CHALLENGE
- 5 INDUSTRIAL SITES VISITS

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Summary of the 3rd International Conference on Diagnostics of Structures and Components using Metal Magnetic Memory Method

The 3rd International Conference on Diagnostics of Structures and Components using Metal Magnetic Memory Method was held on 22-23 May 2019 in Prague, Czech Republic. It was initiated by the Czech Society for Non-Destructive Testing (Brno) and Preditest Ltd (Prague) and co-sponsored by Energodiagnostika Co Ltd (Moscow, Russia). The organisation of the conference was supported by the Russian Welding Society (RWS) and the Hungarian Association for Non-Destructive Testing (MAROVISZ, Budapest).

The conference was held according to the work plan of the Metal Magnetic Memory (MMM) ICNDT Specialist International Group for 2019-2020. Experts from Brazil, the Czech Republic, Hungary, Germany, Lithuania, Malaysia, Poland, Russia, Slovakia and the UAE took part in the conference.

Reports on the following topics were presented:

- The development of the MMM method in Europe, Russia and other countries;
- Physical bases of the MMM method – experimental research concerning physical-mechanical properties using the MMM method;
- Inspection of mechanical engineering product quality for structural inhomogeneity and residual stresses;
- Experience in the use of the MMM method during inspection in the lifetime assessment of pipelines, structures and components;
- Non-contact diagnostics based on the MMM method of buried pipelines; and
- Personnel training in the MMM method and training in the field of stress-strain state testing and engineering diagnostics.



Delegates attending the 3rd International Conference on Diagnostics of Structures and Components using Metal Magnetic Memory Method

A meeting of the ICNDT MMM Specialist International Group was also held.

14 scientist and practitioner reports were presented in total. The following persons were among the speakers of the plenary session:

- Dr Peter Trampus – Professor, President of the Hungarian Association for Non-Destructive Testing;
- Dr Anatoly Dubov – Professor, General Director of Energodiagnostika Co Ltd, Russia;
- Dr Vaclav Svoboda – Director of Preditest Ltd, Czech Republic; and
- Dr Kamarudin – Technical Director of MR Technology Sdn Bhd, Malaysia.

After each presentation there were intensive discussions.

In the framework of the conference, the meeting of the ICNDT MMM Specialist International Group also took place.

The following resolutions were adopted based on the conclusion of the conference:

- The general opinion of participants was that there is a need for further practical implementation of the MMM method as an effective method of early diagnostics of metal and welded joints of vessels, pipelines and other equipment for various industrial applications, with the continuation of theoretical and experimental studies to improve the method and examination criteria.
- Participants from Brazil, Czech Republic, Hungary, Germany, Lithuania, Malaysia, Poland, Russia, Slovakia and the UAE suggested that the MMM method be included in the list of NDT methods under which qualification and certification of NDT personnel is performed in accordance with ISO 9712.
- In connection with the expansion of the number of countries in which MMM-based NDT technology has spread (43 countries as of May 2019) and the increasing demand for personnel training, qualification and certification, it is proposed that the programme for expert training in the MMM method be included in the document ISO/TR 25107.
- A commitment was made to promote and support the ICNDT MMM Specialist International Group within the International Committee for Non-Destructive Testing (ICNDT).

It was proposed to send this resolution to both ICNDT and ISO/TC 135.

#NDT2019

Call for Papers
NDT2019
58th Annual Conference
3-5 September 2019
The International Centre, Telford, UK

The Annual British Conference on Non-Destructive Testing (NDT) is a prestigious event where experts in NDT and related technologies meet to share experiences, ideas and the very latest developments that will help shape the future of NDT.

Abstracts (of no more than 200 words) are invited and should be submitted online at: <http://mc.manuscriptcentral.com/ndt2019> or via the link on www.bindt.org by 3 May 2019.

The 2019 Materials Testing Exhibition (#MT2019) will run alongside the NDT conference, with over 70 companies expected to exhibit.

For further information, contact: Conferences and Events Department, BINDT, Midsummer House, Riverside Way, Bedford Road, Northampton NN1 5NX, UK. Tel: +44 (0)1604 438300; Fax: +44 (0)1604 438301; Email: conf@bindt.org; Web: www.bindt.org



**COFREND
DAYS**



NDT, see to foresee

**CALL FOR PAPERS
UNTIL 15 NOVEMBER, 2019**

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3 DAYS OF EXHIBITION AND CONFERENCE:

An unique program of highlights, to Effectively link exhibitors, researchers, scientists and visitors around non destructive testing.

COFREND Days will be held in Marseille from 12 to 14 May 2020. Under the theme of “NDT, See to Foresee”, pledge of Quality and Safety, 2,500 French and foreign participants are expected to attend the 10th edition. Organized every

3 years, COFREND days are the Rendez-vous of the whole profession; industrials, major contractors, Small and medium companies, involved in non-destructive testing (NDT) and whose scope covers all industrial sectors and advanced technology: aeronautics, railways, civil engineering, nuclear power, petrochemicals, iron and steel industry.

Contact: cofrend2020@cofrend.com

MARSEILLE - Palais Chanot
FROM MAY 12TH TO 14TH, 2020
www.cofrend2020.com

ASIA-PACIFIC

News from the Asia Pacific Federation for Non Destructive Testing

Over the last few months the region has seen a lot of activity, which has been led by the International Atomic Energy Agency (IAEA) Regional Cooperation Agreements (RCAs). The region has been focusing on NDT in civil infrastructure and the associated subject of harmonisation around ISO 9712 and ISO 17024.

The latest activity, under RAS 1022, suffered a delayed start (until January 2019), but this has turned out to be advantageous.

The Regional Workshop on NDT/E Qualification and Certification Systems Requirements in Accordance with the Latest Edition ISO 9712 and ISO 17024 (RAS 1022)

This workshop, held in the Philippines from 6-10 May 2019, welcomed participants from 20 countries (five of which do not currently have legal entity NDT societies). The information shared and support given to the many developing countries present has, in our opinion, resulted in an event that had quite probably the greatest single impact in terms of assisting the growth and expansion of the region in the field of harmonisation and society support.



Delegates attending the Regional Workshop on NDT/E Qualification and Certification

The entire group has committed to targets to be achieved by the completion of RAS 1022 at the end of 2022. These include the following:

- The five countries without societies have agreed to form such by 2022.
- The one country operating to ISO 9712:2005 has agreed to update to ISO 9712:2012 by 2022.
- Those who are not signatories to ICNDT Schedule 1 and Schedule 2 are working towards 2022 compliance.
- Those without PCBs are working towards 2022 compliance.

Final Project Coordination Meeting and Workshop on Infrastructure for Non-destructive Testing (RAS 081)

The Final Project Coordination Meeting and Workshop on Infrastructure for Non-destructive Testing was held in Christchurch, New Zealand, from 10-14 June.

This event, although not directly connected with New Zealand in the initial stages, was commenced as a spin-off from the response to the tsunami damages due to the Fukushima earthquake.

With the follow-on project (RAS 1022) taking the subject to the next level, New Zealand was asked to host the final meeting. This has proven to be most advantageous, as previously mentioned.

15 international participants attended the event, including two from IAEA in Vienna itself, plus two IAEA experts from India and Malaysia, along with the various Asia-Pacific countries involved, notably some that have not participated before, such as Fiji, Vanuatu and Papua New Guinea.

The venue chosen (the IBIS Hotel in Central Christchurch) turned out to be the ideal location; from the hotel windows, participants could look right out and see the Christchurch Cathedral (still



International participants attending the final project coordination meeting

barricaded off and supported with huge steel structures) or newly built or strengthened commercial buildings across the street.

A technical visit to a local NDT business was also hosted (so that those unfamiliar with NDT facilities or equipment could see first hand the requirements expected) and a walking tour of the local central business district was held (locally known as the 'red zone') area, which was totally blocked off for over two years, including a visit to the new Forté Health building, to see what the latest seismically designed buildings were like.

It was, all in all, a very interesting and productive week in which both New Zealand and the New Zealand Non Destructive Testing Association (NZNDTA) were praised for their involvement in supporting the region and also for the choice of locations.

Regional Workshop on the Application of NDT for Civil Engineering Structures (RAS 1022)

The Regional Workshop on the Application of NDT for Civil Engineering Structures is to be held from 7-11 October 2019.

With the New Zealand government giving the go ahead, preparations for the next IAEA meeting and workshop (which has been planned since 2017) are already underway.

This event will be hosted in the capital city at GNS Sciences, Gracefield, Lower Hutt, Wellington, and as a truly technical workshop (focusing on writing syllabuses and training material) the majority of participants are going to be handpicked for their individual expertise to ensure the success of the project over the coming years.

With other regional groups (Europe and Pan-America) working on similar projects in this cycle, this will be the first ever joint interregional project, which is very exciting.

16th Asia-Pacific Conference on Non-Destructive Testing

APCNDT 2021

18-22 October 2021

Melbourne Convention and Exhibition Centre,
Melbourne, Australia

www.apcndt2021.com.au

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20th WCNDT 2020

20th World Conference on Non-Destructive Testing
Coex(Convention & Exhibition Center), Seoul, Korea, June 8~12, 2020



**EXTENDED DUE DATE
FOR ABRSTRACT SUBMISSION
OCTOBER 31, 2019**

www.wcndt2020.com



Key Dates

Abstract Submission	by October 31, 2019
Notification of Acceptance	on November 30, 2019
Early Bird Registration	by December 31, 2019
Pre-Registration	from January 1, 2020

SCI(E) Journal Lists for Special Issue of WCNDT 2020 Released!

More than 100 conference papers will be recommended for publication of major SCI(E) international journals shown as below.

Structural Health Monitoring	IF: 4.939
Smart Structures and Systems	IF: 3.622
Sensors Journal	IF: 3.031
Materials	IF: 2.972
Journal of Intelligent Material Systems and Structures	IF: 2.582
Measurement Science and Technology	IF: 1.861
Nuclear Engineering and Technology	IF: 1.546
Advanced Composite Materials	IF: 1.393
Noise Control Engineering Journal	IF: 0.613

The Korean Society for Nondestructive Testing

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E-mail: secretariat@wcndt2020.com, Website: www.wcndt2020.com



AINDT South Australia Conference and Trade Exhibition is now taking registrations

Promotion for the upcoming South Australia Conference in November is now in full swing and some fantastic interest has already been received from industry.

The conference is billed to be a three-day gathering of non-destructive testing (NDT) and condition monitoring (CM) experts from a wide range of industrial, research-based and academic backgrounds and promises to be a premium networking event, which will promote an environment for the discussion of modern trends and current advances in the ever-increasing and demanding fields of NDT and CM.

At the time of writing this article, the Australian Institute for Non-Destructive Testing (AINDT) is currently taking registrations for attending, sponsoring, exhibiting and presenting technical papers.

Call for papers:

AINDT is calling for papers from members and non-members to be submitted in the lead-up to the conference, with full paper submissions to be completed by September.

This will provide presenters with an opportunity to discuss modern trends and current advances in the ever-increasing and demanding fields of NDT and CM with key stakeholders and industry leaders.

Papers will need to be well researched and of interest to a broad industry audience, as well as focusing on specified themes and industry sectors.

Exhibitor stands:

The trade exhibition is an integral part of the 2019 AINDT conference. An area suitable for 34 exhibitors has been allocated and will be attended by conference delegates, training/seminar attendees and guests. The trade exhibition area will host lunch, morning and afternoon breaks and the cocktail function on Sunday evening.

There are two size options for hosting a stand this year: 3 m x 3 m and 2 m x 3 m. Please note that the height of the walls for all

stands will be 2.34 m (2.48 m including high Octanorm aluminium framing) and all stands are in white.

Delegates and attendees:

Delegates are expected to attend from countries in the Australasian region, member countries of the Asia Pacific Federation for Non Destructive Testing (APFNDT) and ICNDT.

As outlined, the conference, integrated with the trade exhibition, will provide an opportunity for industry to be made aware of newer technologies, so that operational efficiency can be improved upon, as well as be an outlet for new research in the form of practical workshops on selected technologies.

Sponsorship packages:

AINDT is offering a range of sponsorship packages that can be tailored to meet individual needs and ensure that company exposure is maximised to both national and international delegates.

Sponsorship packages include:

- Exclusive Gold Sponsorship
- Silver Sponsorship
- Exclusive Gala Dinner Sponsorship (dinner to be held at the Adelaide Oval)
- Exclusive Welcome Function Sponsorship
- Exclusive Satchel Sponsorship
- Exclusive Coffee Sponsorship
- Morning Tea, Lunch or Afternoon Tea Sponsorship
- Satchel Inserts Sponsorship.

If you are interested in attending as an exhibitor, sponsor or delegate, or to present a paper, visit the AINDT Conference and Trade Exhibition home page (ndtsa.com.au) and submit an expression of interest.

If you have any questions, please contact the AINDT Federal Office on: +61 3 9328 8831 or email: anton.milne@aindt.com.au

AINDT
Australian Institute
for Non-destructive Testing

**2019 South Australia
Conference & Trade Exhibition**
4-6 November 2019, Adelaide Convention Centre
Presented by Australian Institute for Non-destructive Testing

**REGISTRATIONS OPEN!
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of Inspection Personnel

Adelaide
Convention Bureau

ADELAIDE
SOUTH AUSTRALIA

WCCM SINCE²⁰¹⁹ SINGAPORE

2 – 5 December 2019

“Digitalisation in Condition Monitoring and Non-Destructive Evaluation – Value our People, Plants and Assets”

Join us in Singapore for

2nd World Congress on Condition Monitoring

Marina Bay Sands Expo and Convention Centre | Singapore | 2-5 December 2019

3rd Singapore International NDT Conference & Exhibition

Marina Bay Sands Expo and Convention Centre | Singapore | 4-5 December 2019

The International Society for Condition Monitoring (ISCM) and Non-Destructive Testing Society Singapore (NDTSS) are proud to invite you to one of the largest combined events within the region. This event provides a unique opportunity to exchange ideas with local, regional and international delegates from a wide range of expertise from both condition monitoring and NDT converge.

Website: <https://wccm2019.org> | <https://since2019.org>

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CALENDAR OF NDT EVENTS

Month	Date	Venue	Event	Contact
September 2019	10-12	California USA	12th International Workshop on Structural Health Monitoring (IWSHM 2019)	http://web.stanford.edu/group/sacl/workshop/IWSHM2019/index.html
	10-12	Belfast UK	14th International Conference on Advances in Experimental Mechanics	info@bssm.org www.bssm.org/conf2019
	11-14	Sichuan China	24th International Workshop on Electromagnetic Nondestructive Evaluation (ENDE 2019)	ende2019@sina.com www.ende2019.com
	12-15	Ischia Italy	9th International Conference on Structural Analysis of Advanced Materials (ICSAAM 2019)	info@icsaamconference.com www.icsaamconference.com
	17-19	Portorož Slovenia	15th International Symposium on Nondestructive Characterization of Materials (ISNDCM 2019)	conferences@asnt.org ; www.asnt.org/majorsitections/events/upcoming_events/ISNDCM_2019.aspx
October 2019	15-16	Oxford UK	Confidence in Composites Conference	info@compositesuk.co.uk www.confidenceincomposites.com
	22-23	Rotterdam The Netherlands	2nd World Conference for Inspection and Maintenance Robotics	catherine.reijans@sprintrobotics.org www.sprintrobotics.org/conference
November 2019	5-7	Czech Republic	NDE for Safety 2019/Defektoskopie 2019	cndt@cndt.cz www.cndt.cz/nde_for_safety2019
	6-8	Buenos Aires Argentina	12th Regional Conference on Non-Destructive Testing and Structural Testing (XII CORENDE)	corende2019@aaende.org.ar www.aaende.org.ar/corende
December 2019	2-5	Marina Bay Sands Singapore	2nd World Congress on Condition Monitoring (WCCM 2019)	secretariat@wccm2019.org wccm2019.org
May 2020	12-14	Marseille France	COFREND Days 2020	pole.communication@cofrend.com www.cofrend.com
June 2020	8-12	Seoul Korea	20th World Conference on Non-Destructive Testing (WCNDT 2020)	secretariat@wcndt2020.com www.wcndt2020.com