



INTERNATIONAL COMMITTEE FOR
NON-DESTRUCTIVE TESTING

The World Organisation for NDT

Website Input: Condition Monitoring and Technical Diagnostics (WG6)

Revision 0

Welcome Message from the Chair – WG6

It is my pleasure to welcome you to ICNDT Working Group 6, the focal point for Condition Monitoring, Predictive Maintenance, Technical Diagnostics and Structural Health Monitoring within the global NDT community.

The increasing complexity of industrial plant, infrastructure and engineered systems requires a more integrated and data-driven approach to asset integrity. Condition Monitoring and Structural Health Monitoring provide powerful tools to support informed maintenance decisions, improve reliability, optimise performance and enhance safety. As digital technologies continue to evolve, the integration of monitoring systems with traditional NDT methods presents significant opportunities for our profession.

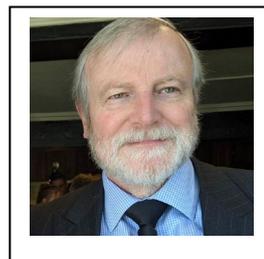
WG6 is committed to promoting international collaboration, harmonisation of best practice and alignment with relevant standards, including those developed within ISO/TC 108. Through knowledge exchange, technical guidance and cooperation with industry and academia, we aim to strengthen the role of diagnostic technologies within ICNDT and across the wider engineering community.

I encourage ICNDT member societies and technical experts with an interest in this field to engage with WG6 and contribute to shaping the future of condition monitoring and structural diagnostics worldwide.

I look forward to working with colleagues across all regions as we advance this important area of our profession.

Simon Mills

Chair, ICNDT Working Group 6
Chair, BINDT Technical Committee
Former Chair, ISO/TC 108/SC 5



ICNDT Working Group 6 (WG6)

Condition Monitoring, Predictive Maintenance & Structural Health Monitoring

Working Group 6 (WG6) serves as the focal point within the International Committee for Non-Destructive Testing (ICNDT) for matters relating to **Condition Monitoring (CM), Predictive Maintenance (PdM), Technical Diagnostics, and Structural Health Monitoring (SHM)**.

Condition Monitoring involves the systematic measurement, analysis, and interpretation of selected physical parameters from operating machinery and structural systems. By trending and evaluating this data, organisations can make informed decisions regarding maintenance planning, operational performance, reliability improvement, and risk reduction. These techniques are widely applied across industrial plants, energy facilities, transportation systems, and critical infrastructure worldwide.

WG6 promotes international collaboration and the harmonisation of best practices in diagnostic technologies. The Working Group supports knowledge exchange between the global NDT community, asset integrity professionals, industry stakeholders, and academia. It also provides technical input to ICNDT initiatives and contributes to the advancement of monitoring technologies within the broader NDT framework.

In addition, WG6 acts as ICNDT's liaison with relevant international standards bodies, including ISO/TC 108/SC 5 (Condition Monitoring of Machine Systems), strengthening alignment between condition monitoring standards and the global NDT community.

WG6 is chaired by **Mr. Simon Mills**, Chair of the British Institute of Non-Destructive Testing (BINDT) Technical Committee and former Chair of ISO/TC 108/SC 5, bringing extensive international expertise in diagnostic technologies and standardisation.

Meetings are conducted primarily online to facilitate global participation, with occasional hybrid sessions organised alongside major international conferences and ICNDT events.

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