

Nondestructive Evaluation and Industrial Inspection

TC-01 Committee Meeting on May 21, 2025

At I2MTC 2025 in Germany.

TC-01 Chair: Jaems A. Smith Retired, USA
TC-01 Co-Chair: Helena G. Ramos Instituto de Telecomunicacoes, Instituto Superior Tecnico, Portuga

Location: Carlowitz Congress Center Chemnitz; Silva-Foyer + Stadthallen-Foyer

Attendance:

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| James A. Smith | Retired, USA |
| Reza Zoughi, | Iowa State University, USA |
| Logan M. Wilcox | Missouri University of Science and Technology, USA |
| Helena G. Ramos | Instituto de Telecomunicacoes, Instituto Superior Tecnico |
| Moshen Barzegar | Instituto de Telecomunicações (IT), Lisbon, Portugal |
| Qiuping Ma | University of Electronic Science and Technology, China |
| Marco | University in Italy |
| Fangpeng Dung | Technical University. China |

Hosted IEEE Officers for lunch:

Kathleen A. Kramer IEEE electrical engineering at the University of San Diego, USA

Meeting Summary:

During lunch, it was noted that the IEEE president, Kathleen A. Kramer, and her entourage had no place to sit. TC-01 was able to accommodate the IEEE officers for lunch seating as we had space at our reserved table. The hosting of the IEEE officers worked out well and TC-01 would like to formalize having TC-01 hosting the president at lunch.

There was a Nondestructive Evaluation and Industrial Inspection (NDE&II) held at I2MTC after lunch. During the meeting, the mission and goals for Nondestructive Evaluation and Industrial Inspection (NDE&II) were reviewed. A summary of the mission and goals are also located on the NDE&II website.

We had a lively discussion centered on getting industrial and government laboratories involved with NDE&II committee to develop best practices and standards. Logan Wilcox is spearheading developing an Active Microwave Thermography (AMT) guide as part of the standards process. In 2025, the AMT committee formed a working group and began draft. In 2026, the AMT committee will have a formal kick off following IEEE Standards process, assign positions within the group, and then continue work on the guide.

A discussion on how NDE&II should explore coordinating efforts with Societies such as ASNT, ASTM and ASME to make sure all societies are on the same page, aware of each other's actions, and make sure efforts are complimentary. Graduate students are encouraged to join other TCs and report back on specifications being developed that would intersect with TC-01 specifications and technology.

Helena brought a poster on TC-01 at I2MTC 2025 to attract new members and involvement. This is a good idea and TC-01 will work on having a poster I2mtc 26.

Activities during I2MTC:

During the I2MTC meeting the following attendees indicated interest in the NDE&IM TC:

Follow Up Actions:

- We are working to schedule a discussion on coordinating standards and best practices between NDE&II and ASNT.
- Following the IEEE Standards process, formalize the development of the AMT guide
- NDE&II is working with TC-09, Sensor Technology, on two project authorization requests:
 - P1451.7 – Smart transducer interface for sensors and actuators – Add Transducers to radio frequency identification (RFID) systems communication protocols).
- TC-01 will work on having a poster I2mtc 26