



Nondestructive Testing: Advanced Methods for Evaluation of Concrete

Presented by Germann Instruments.

Course Code: MTNDT

Date/Time: Monday – Tuesday, January 22 – 23 | 8:00 am – 5:00 pm

Location: LVCC North Hall

Description: This new two-day workshop includes a combination of presentations and demonstrations that will cover basic concrete science and the principles of methods available for the evaluation of concrete structures. Discussions will focus on understanding how these evaluation methods work and how they should be applied; in addition to recognizing limitations of each.

Engineers-Technicians-Contractors: This course will be of interest to consulting Engineers responsible for planning structural evaluations or reviewing reports of evaluations based on the types of tests addressed in this course. Technicians will benefit by understanding the underlying principles of methods they may be using or may use in the future. Contractors will learn about tools that can be used to improve quality control.

Content: Pullout and pull-off tests for in-place strength; covermeters and GPR for reinforcement location; stress-wave methods for flaw detection; basics of steel corrosion and methods for assessing corrosion activity; measuring chloride ion profiles and estimating remaining life; durability testing based on electrical methods; evaluating cracking potential; and thermal control planning.

Presenters: **Nicholas J. Carino**, internationally recognized expert/educator on Nondestructive Testing and standard test methods, is an independent consultant retired after 25 years with NIST (National Institute of Standards and Technology). **Claus G. Petersen**, inventor of numerous test systems used worldwide, is President of Germann Instruments, one of the world's leading suppliers of advanced concrete test systems.

IMPORTANT: Registration includes digital copy of presentations and a certificate of course completion. Lunch is on your own. **Space is limited to 40 participants, so register early!**

MTNDT Fee: \$675; \$750 after 12/4/17 and onsite

Questions about this workshop should be directed to Mariana Lara, Germann Instruments USA, (847) 329-9999 or germann@germann.org.