SVTI ASIT



NONDESTRUCTIVE TESTING COURSE

Advanced Nondestructive Testing of Concrete Structures

June 04 & 05, 2019 Zurich, Switzerland

In cooperation with:



SVTI Schweizerischer Verein für technische Inspektionen

ASIT Association suisse d'inspection technique

ASIT Associazione svizzera ispezioni tecniche

Swiss Association for Technical Inspections

www.svti.ch

SPEAKERS

Dr. Daniel Algernon

Dr. Daniel Algernon has 18 years of experience in Nondestructive Evaluation (NDE) applied in civil engineering. He is the head of the NDE Laboratory of the SVTI Nuclear Inspectorate. The work of this highly-skilled group comprises aspects such as special field testing applications, advanced data analysis, research and development, training and support as well as NDE system performance evaluation.

He has a doctorate degree in civil engineering from the Technical University of Berlin (TU-Berlin). He conducted his doctoral research at the Federal Institute for Materials Research and Testing (BAM), in the field of Nondestructive Testing in Civil Engineering (NDT-CE) and acoustic methods specifically. After completion of his Ph.D. studies, Dr. Algernon worked as a postdoctoral researcher at the University of Florida in the field of NDT-CE, starting an NDE validation center for the Florida Department of Transportation.

Dr. Algernon is the chair of the Quality Assurance & Validation subcommittee in the committee for Nondestructive Testing in Civil Engineering with the German Society for Nondestructive Testing (DGZfP). He is also a member

Dr. Sascha Feistkorn

Dr. Sascha Feistkorn studied civil engineering at the TU-Berlin and has been working in the field of NDT-CE since 2009. In his time at BAM, he worked in various research projects in NDT-CE. Amongst others, he performed an extensive research study to validate the new rebound hammer principle based on the Q-value. He has also been initiating and establishing NDT training concepts in the civil engineering sector for many years. Based on his experience, he gives training and education courses in NDT at several academies for engineers and universities as well as NDT workshops on conferences. He worked with the "Fraunhofer Institute for Nondestructive Testing" IZFP and supervised a project in the field of NDT-CE data fusion.

Since 2012, Dr. Feistkorn is employed at the NDE Laboratory of the SVTI Nuclear Inspectorate and has been working in numerous research projects and committees in the field of NDT-CE. He represents the Swiss NDE Qualification Body (QSt) in many projects for the application NDT in the nuclear industry.

Dr. Feistkorn has a doctorate degree in civil engineering from the TU-Berlin for a research study conducted at

International Guest Speakers

As in all SVTI training courses, we are very proud to present international guest speakers, who are worldleading experts in various fields of concrete assessment of the committee on Field Testing and Nondestructive Evaluation of Transportation Structures in the Transportation Research Board (National Research Council) of the United States.

Besides his engineering background, his research includes economic studies regarding the growing market of NDT in civil engineering.



BAM, where he established the POD method to evaluate the reliability of nondestructive inspection systems in civil engineering.

He is the chair of the NDT Training & Education subcommittee in the committee for NDT-CE within the DGZfP, setting new standards for state-of-the-art NDT training.



and inspection technology. Check the web announcement for further details.

COURSE CONTENTS

Advanced Nondestructive Testing

- Highly efficient learning about the application of Radar and Ultrasonics to receive valuable information regarding the actual condition and durability of different concrete structures, such as bridges, buildings or other elements of infrastructure
- Learn how to assess the geometric dimensions, the layer structure or the position of rebars, tendon ducts and other installations, such as pipes or cables
- Learn how to detect and quantify damages, such as cracks, voids, delaminations or honeycombs and how to identify locations with potential grouting defects
- Learn how to determine material parameters, such as the concrete compressive strength, the modulus of elasticity or different moisture conditions
- Learn how to setup, calibrate and prepare various devices for Radar and Ultrasonics offered by Proceq, such as the portable GPR Live, the Pundit Live Array Pro,

the Pundit Pulse Echo, the Pundit Array as well as the Pundit Lab for these different purposes

- Learn how to customize different inspection systems to collect precise measurement data of high quality in specific testing scenarios as the basis for the reliable and structure-specific condition assessment
- Learn how to prepare and analyze the obtained data to receive reliable information about the geometry, rebars and tendon ducts as well as the actual condition of the investigated concrete structure
- Learn about smart ways to apply and combine the two inspection techniques Radar and Ultrasonics to assess the current concrete condition more reliably
- Learn about international guideline documents, which provide further valuable information

Inspection Marketing and Reporting

- Learn about successful quoting in the process of tender and about creating additional documents to increase the chance of success
- Learn how to present the results obtained and how to finalize an advisory report
- Learn to create proper and well-organized reports efficiently, summarizing valuable data and results obtained from it, including use of the LOG BOOK functionality, the cloud backup, real-time data sharing and the quick reporting

TRAINING Classroom Training

Classroom portions of the training on advanced nondestructive testing of concrete structures serve to provide an understanding of the different approaches and show examples of applications performed worldwide.

Well-prepared meeting material is distributed to course participants exclusively and free of any additional charge.

Specific measurement preparation, data acquisition, analysis and report generation are explained in class

form and conducted by the course participants in realistic exercises, while providing them all support they need.

Participants intending to take the exam and gain the SVTI "Certificate of Competence" even on top of the course completion certificate, are getting a thorough preparation for the test, making them fully capable of passing the exam.

Practical Training

Practical training with different nondestructive testing devices is conducted in various realistic inspection scenarios. Learn everything about the correct device operation, smart testing approaches as well as different strategies to save valuable time in the field as well as about the data validation and verification to ensure reliable results. All participants get to apply all inspection tools themselves, so they can develop their testing skills and gain the confidence for field applications.

Certificate of Completion and SVTI Certificate of Competence «Advanced Nondestructive Testing»

Course participants of this two-day training course will be issued a certificate of completion, documenting that they have undergone the internationally recognized indepth training and education in combination with the worldwide leading equipment.

Furthermore, participants having passed the exam at the end of the training will also be issued the SVTI "Cer-

tificate of Competence", known as the latest and probably most reputable certificate in the industry of NDT in civil engineering. It is traceable to any international institute and is being established as a prominent reference of inspection excellence to any client or employer in the industry.

NETWORKING

The training courses bring together NDE practitioners and clients from various countries and places in the world. This is an excellent opportunity to get in contact with them, exchange ideas, experience and visions, no matter how much experience you had when you entered the course. Get to know service providers and clients from different industries.

Become part of the Proceq and SVTI family! Get to know the speakers and instructors personally, stay in touch with them over many years and gain from their experience, in general and whenever inspection-specific support is needed.

THE VENUE

SVTI, Swiss Association for Technical Inspections, Zurich, Switzerland

SVTI is conveniently located close the heart of Zurich and its attractions, such as the beautiful lake Zurich and even the Swiss Alps. It is only a ten-minute drive or bus ride from Zurich International Airport with many hotel options available.

Our charming staff will be happy to assist you with any information needed as well as in organizing trips or activities.



REGISTRATION

Registration includes full training options, course materials, certificate of completion, use of the equipment, networking sessions, lunch and coffee breaks

Date:June 04 & 05, 2019Registration Fee:CHF 970

When booking two courses with at least two people from the same company/institution, all registered participants get 20% off the second course. Location: Venue: Zurich (Switzerland) Swiss Association for Technical Inspections Richtistrasse 15 CH-8304 Wallisellen

Register online at www.svti.ch/ndt

ABOUT SVTI

The Swiss Association for Technical Inspections (SVTI/ASIT) – the brand of safety made in Switzerland - is a private, independent institution within Switzerland that monitors around 50,000 technical installations. Among those, there are highly safety-relevant components, such as in nuclear power plants, pressure vessels as well as oil and gas pipelines. The Association has an exclusive contract with the Swiss Federal Government to evaluate and approve NDE inspection systems for application on safety-classified components. As well as expertise in standardization, performance evaluation and inspection processes, SVTI has international expertise

in academic education and practical training. The Association has a membership of around 8,000 companies, private individuals and public enterprises. SVTI has been heavily involved in NDE in civil engineering and today is a strong player in advancing this growing field of NDE on an international basis.

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