



## **NONDESTRUCTIVE TESTING COURSE**

### **Compressive Strength Assessment of Concrete Structures**

**September 30 & October 01, 2019**

**Dubai, Park Inn by Radisson Dubai Motor City**

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](http://www.svti.ch)

**In cooperation with:**

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# SPEAKERS

## Dr. Daniel Algernon

Dr. Daniel Algernon has 18 years of experience in Non-destructive 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

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.



## 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

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.



## International Guest Speakers

As in all SVTI training courses, we are very proud to present international guest speakers, who are world-leading experts in various fields of concrete assessment

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

# COURSE CONTENTS

## Rebound Hammer

- Learn how to get rebound numbers (R and Q values) from rebound hammer testing according to international standards and guideline documents
- Learn to properly apply the Silverschmidt as well as the Digischmidt rebound hammer and collect series of rebound numbers customized to specific testing scenarios as the basis of the compressive strength assessment
- Learn about different options of calculating the compressive strength
- Learn how to generate your own specific correlation curve, upload it to the rebound hammer and automatically get the compressive strength for the specific concrete structure
- Learn shortcuts to working with statistical formulas for determining the concrete compressive strength class based on R- and Q-values on your own
- Learn the modern and fast approach of using the exclusively provided software tool to quantify the resulting compressive strength class based on rebound hammer measurements on your own

## Ultrasonics

- Learn about smart ways to apply ultrasonic testing for concrete compressive strength assessment according to international standards and guideline documents
- Learn to setup, calibrate and prepare the ultrasonic inspection equipment for a concrete compressive strength assessment
- Learn how to use the ultrasonic equipment in specific testing scenarios to collect precise time-of-flight data
- Learn how to determine the pulse velocity from the recorded time-of-flight data
- Learn about different options of calculating the compressive strength based on the determined pulse velocities
- Learn shortcuts to working with statistical formulas for determining the concrete compressive strength class based on ultrasonic measurements on your own

## 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 the nondestructive concrete compressive strength assessment serve to provide an understanding of the different approaches and show examples of applications performed worldwide.

Well-prepared meeting material as well as software packages for statistical analysis are distributed to course participants exclusively and free of any additional charge.

## 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.

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.

**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 «Concrete Compressive Strength Assessment»

Course participants of this two-day training course will be issued a certificate of completion, documenting that they have undergone the internationally recognized in-depth 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 cli-

ents 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

### Park Inn by Radisson Dubai Motor City

Turin Boulevard Road

First Avenue Mall & Hotel Dubai Motor City

Dubai

United Arab Emirates

Only 30 minutes by car from Dubai International Airport, Park Inn by Radisson is part of the First Avenue Mall and within walking distance to both Dubai Auto- and Kartdrome.



# REGISTRATION

Registration includes:

- **full 2 nights of accomodation** in the Park Inn by Radisson Dubai Motor City, breakfast, lunch and coffee-breaks
- full training options, course materials, certificate of completion, use of the equipment and networking sessions

Date: Sept 30 & Oct 01, 2019  
Registration Fee: CHF 1450 (including full accomodation in Dubai)

**When booking two courses with at least two people from the same company/institution, all registered participants get 20% off the second course.**

Location: DUBAI (UAE)  
Venue: Park Inn Hotel, Turin Boulevard Road, First Avenue Mall & Hotel, Dubai Motor City – Dubai

Guest room block available.

**Register online at**  
[www.svti.ch/ndt](http://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 exper-

tise 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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