



Nondestructive Testing and Evaluation – Civil Engineering and Surveying (NDT&E- CES) Workshop 2014 in BAM, Berlin

The **NDT&E-CES workshop** aims to provide basic and cutting-edge knowledge of the latest development of instrumentation, principles, automation, signal processing, problem-solving techniques and case studies across multiple NDTE-CES's disciplines. This workshop will be held in Federal Institute of Materials Research and Testing (BAM) in Berlin, Germany. It provides a friendly and relaxed environment allowing participants to gain an understanding of NDTE-CES in Germany and Europe, and how this experience can be applied worldwide. Followed by the first very successful 2013 workshop, the second workshop in 2014 will be carried out and details are as follows:

- Date:** **19, 20, 23-25 June 2014 (5 days)**
Venue: Unter den Eichen 87, 12205 Berlin, Germany.
Cost: 1300 Euro per head, including lunch for all five days in BAM canteen and German BBQ in a test site 50km from BAM.
Class Size: About 15.
Registration: Complete and return the Proforma Reply form on or before 30 April 2014. Payment will be arranged directly to BAM upon confirmation of registration.

Suggested Participants: Engineers and surveyors who have interest in a broad sense of NDTE-CES.

Organizers:



Division 8.2, Non-destructive Damage Assessment and Environmental Measurement Methods, Federal Institute of Materials Research and Testing (BAM), Berlin, Germany

Co-organizers:



Department of Land Surveying and Geo-informatics,
The Hong Kong Polytechnic University



IVE Engineering, Hong Kong Institute of Vocational Education, Hong Kong



Hong Kong Institution of Engineers (Materials Division)



About BAM and Division 8.2

Federal Institute of Materials Research and Testing (BAM), Berlin, Germany has over 1658 permanent and temporary staff, apprentices and trainees. It has 11 departments and 53 divisions (www.bam.de). Division 8.2 'Non-destructive Damage Assessment and Environmental Measurement Methods', with about 40 head counts of scientists, students and supporting staff, is one of the divisions in BAM. For over 20 years, Division 8.2 has been conducting research from upstream sensor and algorithm development to downstream applied research that solves CE and surveying problems.

Workshop Contents

- Case Studies of diagnosis of highway, building, bridges, tunnel and survey of underground utilities.
- Ground and surface penetrating radar.
- Active and passive infrared thermography.
- Dry-contact ultrasonics
- Laser-induced spectroscopy for dense chloride profiling in Concrete.
- Positioning and automation of NDE Methods.
- Moisture and corrosion measurement by electrochemical method.
- Pile and soil testing by geophysical methods.
- Data fusion from different NDE techniques, Why and How?
- Experience of validation and accreditation of NDTE-CES in Germany.
- Visits to other department, such as concrete, fire engineering, etc. will be arranged.

Other than that, enjoy the nice weather and long day time in summer, relaxed life, beer in biergarten, private tour to the historical east and west Berlin, biking, jogging in the forest, swimming in the lakes close to BAM.....and many more.....



Practice in lab



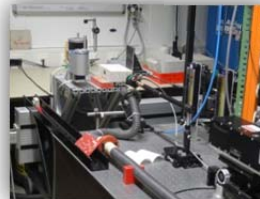
Biergarten



Lecture



Practice in field



PROFORMA REPLY

Nondestructive Testing and Evaluation – Civil Engineering and Surveying (NDTE-CES) Workshop in BAM, Berlin

Please complete and fax, mail or e-mail this form to:

Ir. Dr. Wallace W.L. Lai

Ir. Kenneth C.W. Pak

Department of Land Surveying and Geo-
Informatics
The Hong Kong Polytechnic University
Hung Hom, Kowloon, Hong Kong.

Engineering Discipline In-service Training Office,
Room B322, Hong Kong Institute of Vocational
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Email: kennethpak@vtc.edu.hk Tel: 3757-9193

*Each Participant should complete **ONE** proforma reply form. Please make a copy for your own records.

PARTICIPANT INFORMATION

Family name	_____	First name	_____
Title	_____	Position	_____
Company/ Organisation	_____	Department	_____
Address	_____ _____		
Phone	_____	Fax	_____
E-mail	_____		

And please fill in your **THREE** most interested instrumentations and topics in the NDTE-CES workshop.

INSTRUMENTS AND TOPICS

Instrumentations	1.
	2.
	3.
Topics of Interest	1.
	2.
	3.