

## Preliminary PROGRAMME OF 18<sup>th</sup> I-SAMCO WORKSHOP (PRAGUE, Czech Republic)

**Monday, September 18, 2006**

08.30 – 09.00	Registration of participants
09.00 – 09.10	Welcome and introduction of ITAM Prague Miloš Drdáký, Director of the Institute of Theoretical and Applied Mechanics (ITAM)
09.10 – 10.30	Monitoring and Assessment of Structures Helmut Wenzel (VCE), I-SAMCO project coordinator
10.30 – 10.50	Coffee break
10.50 – 11.10	Remote Monitoring of Reinforcement Corrosion in Concrete Structures: Ronald Davies (Imperial College of Science & Technology)
11.10 – 11.30	Structural Health Monitoring with Wireless Sensor Networks - Challenges and Opportunities: Glauco Feltrin (EMPA)
11.30 – 11.50	Seismic Capability Assessment of a 400 kV Disconnecter Using Both, Experimental Modal Analysis and Finite Element Analysis: Ion Manea (SC ICEMENERG)
11.50 – 12.10	Monitoring and Assessment of Historical Monuments: Werner Rücker (BAM)
12.10 – 12.30	Challenges of Data Interpretation: Ian Smith (EPFL)
12.30 – 12.45	Discussion
12.45 – 14.15	Lunch break
14.15 – 15.00	Transfer to the test structure (Lávka Chodov Bridge / Praha)



15.00 – 17.00	Practical demonstration of bridge monitoring: <ul style="list-style-type: none"> <li>• <i>BRIMOS-Recorder: Ambient vibration measurements of bridges</i></li> <li>• <i>BRIMOS – "Full Measurement System": Ambient vibration measurements of bridge decks</i></li> <li>• <i>BRIREC software</i></li> <li>• <i>BRIMOS software for evaluation and presentation of results</i></li> <li>• <i>Data acquisition equipment and software for permanent monitoring</i></li> <li>• <i>GREEN-Eye – software for conversion of measured data</i></li> </ul>
17.00 – 17.30	Control and verification of in-situ measurement results
17.30	Transfer of participants to Hotel DUO, near ITAM / Prague
19.00	Workshop Dinner

## Tuesday, September 19, 2006

08.30 – 08.50	Registration of participants
08.50 – 09.10	Activities of ITAM Prague in the Area of Structural Monitoring and Control - Past and Present: Stanislav Pospíšil (ITAM)
09.10 – 09.30	Monitoring of the Stresses and Deflection of Large-span Roofs during Erection and Service Life: Vladimír Janata (EXCON)
09.30 – 09.50	New Methods in Monitoring of Historic Structures: Miloš Drdáký (ITAM)
09.50 – 10.10	Long Term Monitoring of TV Towers: Jiří Lahodný (EXCON)
10.10 – 10.30	Monitoring and Vibration Testing of Ancient and Modern Structures: Two Case-Studies: Alessandro De Stefano (Politecnico di Torino)
10.30 – 11.00	Coffee break
11.00 – 11.20	Lessons Learnt from Ambient Vibration Monitoring with BRIMOS – Case Studies (Bridges, Chimneys) in the Czech Republic: Robert Veit (VCE)
11.20 – 11.50	Presentation of monitoring results of Lávka Chodov Bridge / Prague: Peter Furtner (VCE)
11.50 – 12.10	Analysis of Bridges Maintained by a Local Public Territorial Authority in Italy - Modal Identification and Condition Assessment: Francesco Benedettini (University of Aquila, DISAT)
12.10 – 12.30	An analytical Modelling of Railway Tracks for the Development of New Antivibration Systems: Concetta Onorì (University of Naples)
12.30 – 14.00	Lunch break
14.00 – 14.20	Compensation of Environmental Influences: Dr. Helmut Wenzel (VCE)

14.20 – 14.40	The Use of Measured Ambient Vibration for Identification of Structural Characteristics of the Historic Cairo Aqueduct: Mohamed A. Naiem Abdel-Mooty (AUC)
14.40 – 15.00	Dynamic Identification and Monitoring of Structures under Seismic Excitations: Zbigniew Zembaty (Technical University of Opole)
15.00 – 15.20	Dynamic (Seismic) Analysis on Masonry, RC and PRC Bridges: Paolo Franchetti (DCT, Univ. of Padua)
15.20 – 15.40	Future Developments of Monitoring and Control of Civil Engineering Structures and Buildings: Helmut Wenzel (VCE)
15.40 – 16.00	Discussion
16.00	Workshop closure

For more information see: <http://www.itam.cas.cz/samco/>

## I-SAMCO workshop - Prague, 18-19 September, 2006

[Main  
Page](#)

[Topics  
and program](#)

[Workshop  
location and  
accommodation](#)

[Contact](#)

### Goals and Topics of the Conference

The I-SAMCO Workshop represents a continuation to the series of workshops held at various places under auspices of SAMCO project. The meeting will bring together engineers, researchers, university teachers and students and will create an opportunity to exchange scientific, technical and experimental results and ideas in monitoring of structures.

### Topics to be discussed

- Methods in structural monitoring of modern and historic structures
- Dynamics of structures linear/non-linear
- Experimental methods, facilities and devices,
- Full scale measurements; On/off-line data processing, filtering and mining.
- Vibration control and suppression passive/active
- Identification, reliability
- Highway/railway/pedestrian bridges; Towers, masts, chimneys, cooling towers;
- High/low-rise buildings, cables, roofs.
- Benchmarks, case studies, standards and codes

### PROGRAM

Draft of the workshop program is available for downloading [here](#).





## Location:

### ITAM

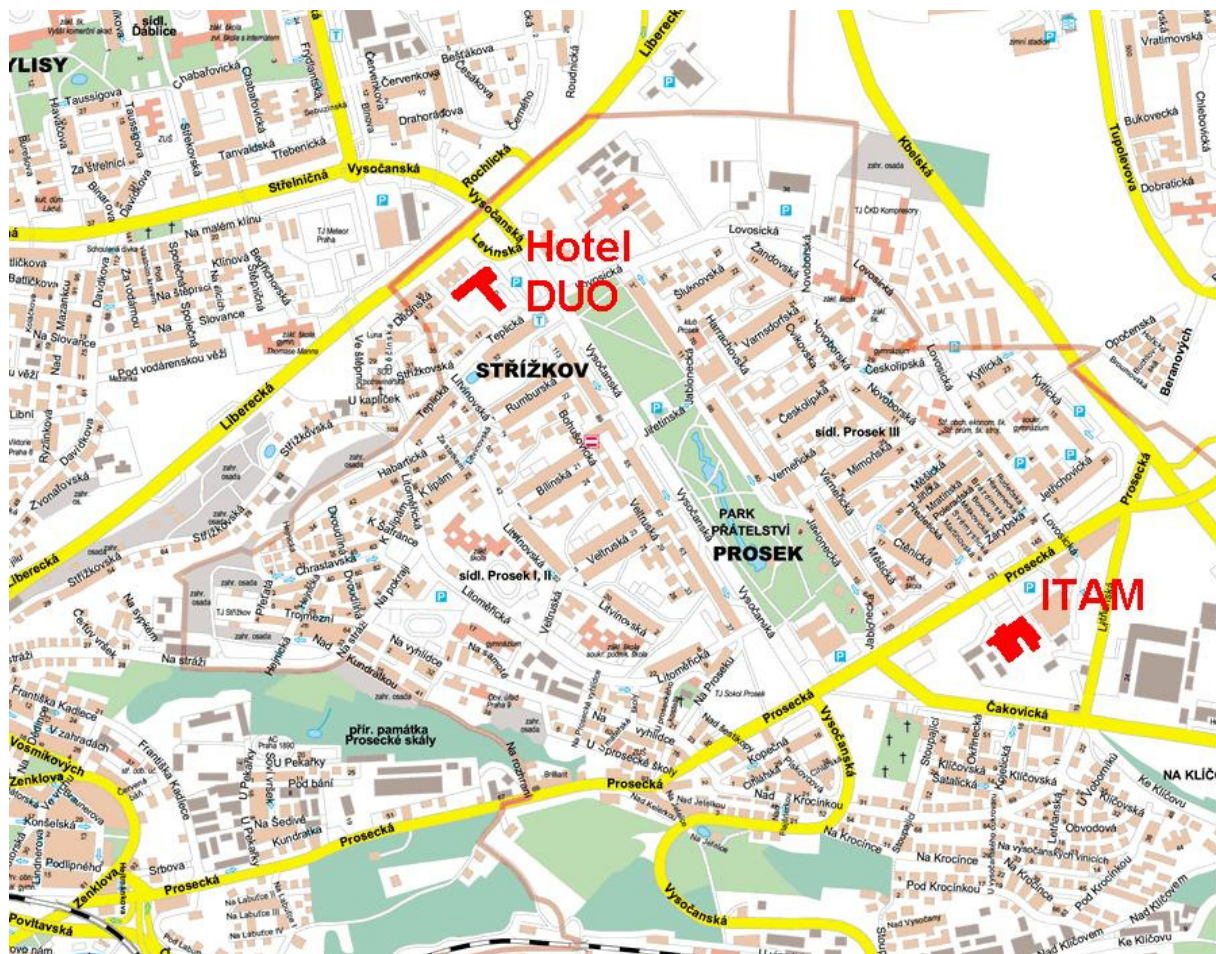
Institute of Theoretical and Applied Mechanics, Academy of Sciences of the Czech Republic  
Prosecká 76  
CZ-19000 Prague 9



## Accommodation:

Workshop participants might book a room at Hotel DUO <http://www.hotelduo.cz/> (see map below) using the password **akademieved06** on filling in the online form for accommodation booking to get the cheaper price.





## Registration for the Workshop:

Registration is done through ITAM / Prague

Please register by filling in the registration form available on the website

<http://www.itam.cas.cz/samco>