

Symposium programme – Day 2

Tuesday, February 18, 2014 – the Main Hall (amphiteater)

V Session 09.00 – 10.30	New trends in CONSTRUCTION MATERIALS Session Chair: Dr. Marijana Serdar
09.00 – 9.45	Minimising carbon footprints of concrete construction Prof. emeritus Ravindra K. Dhir OBE Director Applying Concrete Knowledge, UK
9.45 – 10.20	Construction materials roadmap for R&D Prof. Ivana Banjad Pečur University of Zagreb, Faculty of Civil Engineering, Department of Materials
10.20 – 10.30	Discussion
Coffee break: 10.30 – 11.00	
VI Session 11.00 – 12.30	New trends in CONSTRUCTION MANAGEMENT Session Chair: Prof. Ivica Završki
11.00 – 11.45	Impact of BIM on construction field productivity Prof. Miroslaw J. Skibniewski University of Maryland, A.J. Clark School of Engineering, USA
11.45 – 12.20	The world's leading standards of project management Prof. Mladen Radujkovic University of Zagreb, Faculty of Civil Engineering, Department of Construction Management and Economics
12.20 – 12.30	Discussion
Lunch: 12.30 – 14.00 (Hall P2)	
VII Session 14.00 – 15.30	New trends in TRANSPORTATION INFRASTRUCTURE Session Chair: Prof. Tatjana Rukavina
14.00 – 14.45	State of the art and new trends in GPR applications to transportation infrastructures Prof. Andrea Benedetto University of Roma, Faculty of Civil Engineering, Italy
14.45 – 15.20	From idea to new technologies in transportation infrastructures Prof. Stjepan Lakusic University of Zagreb, Faculty of Civil Engineering, Department of Transportation Engineering
15.20 – 15.30	Discussion
Coffee break: 15.30 – 16.00	
VIII Session 16.00 – 17.30	New trends in MODELLING OF STRUCTURES Session Chair: Dr. Sanja Hak
16.00 – 16.45	Experimental and numerical researches in support of seismic design of masonry buildings Dr. Paolo Morandi University of Pavia, Department of Civil Engineering and Architecture, Eucentre, Italy
16.45 – 17.20	Contemporary approaches to testing and modelling of structures Prof. Mladenko Rak University of Zagreb, Faculty of Civil Engineering, Department of Engineering Mechanics
17.20 – 17.30	Discussion
17.30 – 17.45	CLOSING SYMPOSIUM

Scientific Symposium

Future Trends in Civil Engineering

17 - 18 February 2014

Zagreb, Croatia

Faculty of Civil Engineering, Kaciceva 26

Organizer
University of Zagreb
Faculty of Civil Engineering



CELEBRATION OF THE 95TH ANNIVERSARY OF THE FACULTY OF CIVIL ENGINEERING – ZAGREB

Invitation to Participants

It is our great pleasure to invite you to take part in the scientific symposium **FUTURE TRENDS IN CIVIL ENGINEERING** that is currently organised on the occasion of the 95th anniversary of the Faculty of Civil Engineering of the University of Zagreb. On 21 February this year the Faculty of Civil Engineering - Zagreb celebrates its 95th anniversary and, to mark this significant event, the Faculty is organising a number of activities, one of which is this Symposium.



The lectures to be presented at the Symposium will concern the fields that are a part of the Faculty's activities: geotechnical engineering, water engineering, structural engineering, construction, materials, construction management, transport infrastructures, engineering mechanics, building design and applied mathematics. At this gathering, each field will be represented by one foreign lecturer with international repute and one domestic lecturer. Foreign lecturers come from six countries (Austria, Italy, Ireland, Poland, the UK, and the USA) while domestic lectures originate from the Faculty of Civil Engineering in Zagreb. All lectures presented at the symposium will be fully published in the symposium proceeding.

Venue

The symposium will be held on **17-18 February 2014** at the Faculty of Civil Engineering of the University of Zagreb (Kačićeva 26) in the very amphitheatre in which a lecture was given by Max Planck in the last century.

Registration Fee

The registration fee for participants is 170,00 EUR (135 EUR + 35 EUR VAT). The registration fee includes: symposium proceedings, symposium materials and lunches during the symposium.

Application for Participation

Applications for participation in the scientific symposium **Future Trends in Civil Engineering** can be sent electronically via (ONLINE application) posted on the Symposium website: www.grad.hr/ftce, or by sending properly filled-in application forms to the following fax numbers: **+385 1 6154 092** (ULIX Agency) or **+385 1 4639 206** (Faculty of Civil Engineering, Zagreb), or via e-mail sent to marija@ulixtravel.com (ULIX Agency) or strucno.usavrsavanje@grad.hr (FCE Zagreb). The use of ONLINE Application is preferred.

Information and Symposium applications

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Payments & Hotel Reservations

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Symposium programme – Day 1

Monday, February 17, 2014 – the Main Hall (amphiteater)

08.00 – 09.00 REGISTRATION

09.00 – 09.15 OPENING CEREMONY

I Session **New trends in GEOTECHNICAL ENGINEERING**
09.15 – 10.45 Session Chair: Assistant Prof. Danijela Marcic

09.15 – 10.00 **Geotechnical challenges facing the designer of offshore foundations**
Dr. **Kenneth Gavin**

School of Civil, Structural & Environmental Engineering, University College Dublin, Ireland

10.00 – 10.35 **Current and future trends of geotechnical engineering in Croatia**
Prof. **Meho Sasa Kovacevic**

University of Zagreb, Faculty of Civil Engineering, Department of Geotechnical Engineering

10.35 – 10.45 Discussion

Coffee break: 10.45 – 11.15

II Session **New trends in WATER RESEARCH**
11.15 – 12.45 Session Chair: Assistant Prof. Damir Bekic

11.15 – 12.00 **Computational Fluid Dynamics - lustres and shadows**
Prof. **Jerzy M. Sawicki**

Politechnika Gdańska, Faculty of Hydro and Environmental Engineering, Poland

12.00 – 12.35 **Vision of civil and environmental engineering**
Prof. **Zivko Vukovic**

University of Zagreb, Faculty of Civil Engineering, Department of Water Research

12.35 – 12.45 Discussion

Lunch: 12.45 – 14.00 (Hall P2)

III Session **New trends in STRUCTURAL ENGINEERING**
14.00 – 15.30 Session Chair: Prof. Vlatka Rajčić

14.00 – 14.45 **Design of glass structures**
Prof. **Juergen Neugebauer**

The University of Applied Sciences FH-Joanneum, Austria

14.45 – 15.20 **New passenger terminal construction at Zagreb airport**
Prof. **Jure Radic**

University of Zagreb, Faculty of Civil Engineering, Department of Structural Engineering

15.20 – 15.30 Discussion

Coffee break 15.30 – 16.00

IV Session **New trends in APPLIED MATHEMATICS AND BUILDING DESIGN**
16.00 – 17.30 Session Chair: Assistant Prof. Sonja Gorjanc

16.00 – 16.45 **An engineering application of non-unique factorisation**
Associate Prof. **Hans-Peter Schröcker**

University Innsbruck, Austria

16.45 – 17.20 **Building skin**
Dr. **Silvio Basic**

University of Zagreb, Faculty of Civil Engineering, Department of Buildings

17.20 – 17.30 Discussion