

**Program of the International Scientific
Symposium MODELING OF STRUCTURES
and Opening of the New Building of the
FACULTY OF CIVIL ENGINEERING**

THURSDAY, 13 November 2008

10:00 Registration of participants (at the Faculty of Civil Engineering or Ero Hotel)

12:00 OPENING OF THE NEW BUILDING AND OPENING OF THE SYMPOSIUM

University Choir – Anthems

WELCOMING SPEECHES

Rector of the University of Mostar, **Vlado Majstorović**, Ph.D.

Mayor of Mostar, **Ljubo Bešlić**

Dean of the Faculty of Civil Engineering, **Ivo Čolak**, Ph.D.

String Quintet of Mostar Symphonic Orchestra – musical number

The new building and symposium, being under auspices of the Ministry of Science, Education and Sports of the Republic of Croatia, will be opened by Minister **Dragan Primorac** on behalf of the ministry.

University Choir – Gaudeamus

Banquet in the new building of the Faculty of Civil Engineering

13:30 OPENING OF THE EXPOSITION OF COMPUTER GRAPHICS OF **Roberta B. Barbarić**

Buildings in Plasmatic Space

The exposition will be presented by **Snježana Vasilj**, Ph.D.

String Quintet of Mostar Symphonic Orchestra – musical number

The exposition will be opened by the dean, **Ivo Čolak**, Ph.D.

14:00 INTRODUCTORY LECTURES (P1)

Blaž Gotovac, Ph.D.

THE RECONSTRUCTION OF THE OLD BRIDGE

Faculty of Civil Engineering and Architecture University of Split

Branko Katalinić, Ph.D.

QUO VADIS HOMO TECHNICUS?

Vienna University of Technology, Austria

17:00 – 20:00 LECTURES (P2)

Krstevska, L.; Kustura, M. & Tashkov, Lj.

DYNAMIC TESTING OF THE OLD BRIDGE IN MOSTAR

Glibić, M.

A POSSIBLE REASONS OF CRACKS ON THE ARCH OF THE OLD BRIDGE

Kalman, T. & Sigmund V.

PREDICTION OF BEHAVIOR OF THE INFILLED R/C FRAMES UNDER LATERAL LOADS

Ožbolt, J.; Kožar, I. & Travaš, V.

PENETRATION OF STEEL ANCHOR INTO A CONCRETE BLOCK – NUMERICAL CONTACT SIMULATION

Ožbolt, J.; Balabanić, G. & Periškić, G.

EFFECT OF DAMAGE ON CHLORIDE PENETRATION PROFILES IN CONCRETE STRUCTURES

Fischinger, M. & Isaković, T.

SIMPLIFIED METHOD FOR THE IN ELASTIC SEISMIC ANALYSIS OF REINFORCED CONCRETE VIADUCTS

Fischinger, M. & Isaković, T.

MACRO MODEL TO PREDICT IN ELASTIC SEISMIC RESPONSE OF REINFORCED CONCRETE STRUCTURAL WALLS

18:45 – 19:00 Coffee break

Marušić, M.; Gotovac, B.; Kozulić, V. & Gotovac, H.

THE ADAPTIVE NUMERICAL MODEL OF A GIRDER ON ELASTIC BASE

Perić, Lj.

MODELING AND DESIGN OF DEFORMABLE DUCTILE STRUCTURES RESISTANT TO EARTHQUAKE EFFECTS USING THE BEARING CAPACITY METHOD

Sesartić, R.; Kozulić, V. & Gotovac, B.

THE MODELING OF ARCH STRUCTURES

Mihanović, A.; Trogrlić, B. & Akmadžić, V.

NONLINEAR NUMERICAL MODEL FOR SEISMIC ANALYSIS

FRIDAY, 14 November 2008

10:00 – 13:00 LECTURES (P3)

Kostić, S.; Lee, C. & Filippou, F.C.

EVALUATION OF RESULTANT PLASTICITY AND FIBER BEAM-COLUMN ELEMENTS FOR THE SIMULATION OF THE NONLINEAR RESPONSE OF STEEL STRUCTURES

Lozzi-Kožar, D. & Kožar, I.

INTEGRAL AND DIFFERENTIAL FORMULATION IN RESERVOIR ROUTING

Šćepanović, B.; Gil Martin, L.M.; Lučić, D.; Hernandez Montes, E. & Aleksić, S.

FEM MODELLING OF ECCENTRICALLY PATCH LOADED STEEL I-GIRDERS

Sigmund, Z. & Sigmund, V.

A POSSIBILITY OF SIMPLE MODELING OF FRAME WITH INFILL

Zejak, R. & Kopitović Vuković, N.

CALCULATION MODEL FOR A CASE OF EXPERIMENTAL TESTING ON SLENDER RC COLUMNS

Koleková, Y.; Petronijević, M. & Schmid, G.

SIMPLE MODELS FOR SOIL-STRUCTURE INTERACTION

11:30 – 11:45 Coffee break

Fischinger, M.; Kramar, M. & Isaković, T.
MODELLING SEISMIC RESPONSE OF PRECAST RC INDUSTRIAL BUILDINGS WITH STRONG CONNECTIONS

Penava, D.; Sigmund, V.; Petronijević, M. & Schmid, G.
VIBRATION ANALYSIS OF FRAME STRUCTURE EXCITED WITH RAYLEIGH WAVES USING SPECTRAL ELEMENTS

Milašinović, Z.; Kalajdžisalihović, H. & Raič, M.
APPLICATION OF UNSTEADY NUMERICAL MODEL MIKE 11 IN THE DETERMINATION OF RESISTANCE COEFFICIENT

Matošević, D.; Sigmund, V. & Zovkić, J.
EXPERIMENTAL TESTING OF OF MASONRY AND MASONRY PIERS

Milašinović, D.
RHEOLOGICAL-DYNAMICAL THEORY OF MULTIAXIAL FATIGUE

16:00 – 19:45 LECTURES (P4)

Mašović, S.
THE EFFECTS OF DIFFERENTIAL SHRINKAGE IN COMPOSITE CONCRETE GIRDERS MADE CONTINUOUS

Bjelanović, A.; Rajčić, V. & Čizmar, D.
NEW POSSIBILITIES OF STRUCTURAL DESIGN USING ARTIFICIAL INTELLIGENCE TECHNIQUES

Nikolić, Ž.; Mihanović, A. & Živaljić, N.
RESONANT RESPONSE SPECTRUM IN SEISMIC ANALYSIS OF STRUCTURES

Markić, R.; Mucić, S.; Radnić, J.; Harapin, A. & Grgić, N.
NUMERICAL MODEL FOR THE NONLINEAR ANALYSIS OF SPATIAL FRAMEWORK SYSTEMS

Draganić, H.; Varevac, D. & Markulak, D.
APPLICABILITY OF WAVE EQUATION AND FEM FOR DETERMINATION OF THE BRIDGE EIGENVALUES IN TRANSVERSAL DIRECTION

Mihanović, A. & Nikolić, Ž. & Smoljanović, H.
ELASTIC RESPONSE SPECTRUM OF WIND FORCE

17:30 – 17:45 Coffee break

Morić, D. & Hadžima-Nyarko, M.
SDOF MODEL IN SEISMIC ANALYSIS

Šunjić, G.; Radnić, J. & Harapin, A.
BEHAVIOR OF SUBMERGED STRUCTURES UNDER SEISMIC LOAD CONDITIONS

Radić, I.; Markulak, D. & Džeba, I.
NON-LINEAR MODELLING OF CASTELLATED BEAMS IN BENDING

Galić, M.; Marović, P. & Nikolić Ž.
3D NUMERICAL MODELLING OF PRESTRESSED CONCRETE STRUCTURES

Ević E.; Anton, H. & Čilić, D.
MODEL AND STATIC ANALYSIS OF STANDARDIZED STRUCTURE SPAN OF THE ROAD BRIDGE MADE OF PREFABRICATED ELEMENTS

Dimitrakopoulos, E. G.; Kappos, A. J. & Makris, N.
DIMENSIONAL RESPONSE ANALYSIS OF STRUCTURES FOR RECORDS WITHOUT DISTINCT PULSES

Trogrlić, B.; Mihanović, A. & Balić, I.
PLASTIFICATION OF RC FRAME UNDER MONOTONIC LOADING

Kožul, M.; Čubela, D. & Ivanković, V.
STRUCTURAL SAFETY ANALYSIS OF THE BUILDING GLASS BANK IN MOSTAR

20:30 *Gala dinner at Ero Hotel*

SATURDAY, 15 November 2008

09:00 – 11:00 LECTURES AND CONCLUSIONS (P5)

Čubela, D.; Radnić, J.; Harapin, A. & Grgić, N.
EXPERIMENTAL TESTS AND NUMERICAL VERIFICATION OF OMNIA SLABS BEHAVIOR

Soče, H. & Akmadžić, V.
JOINTS WITH HIGH STRENGTH BOLTS CLASS 10.9 UNDER THE TRANSIENT LOADING - EXPERIMENTAL AND THEORETICAL ANALYSIS

Barać, D. & Lukić, I.
MODELING OF A PROTECTIVE STRUCTURE FOR THE CONSTRUCTION OF DEEP FOUNDATIONS IN RIVERBED

Kozulić, V.; Gotovac, B. & Čolak, I.
MULTILEVEL MESH FREE METHOD FOR THE TORSION PROBLEM

Vrdoljak, A.
ON THE COMPUTATION OF ZEROS OF POLYNOMIALS

Čolak, I.; Gotovac, B. & Kozulić, V.
NUMERICAL ANALYSIS OF 3D STRUCTURES WITH CONSTANT PROPERTIES IN THE THIRD DIRECTION

Rahimić, S. & Višekruna, V.
PROPOSES A METHODOLOGY AND ARCHITECTURE SUITABLE FOR GENERATING THE PROCESS PLAN OF MACHINING PARTS

CLOSING OF THE SYMPOSIUM

11:30 – 15:00 *Excursion and group lunch*