

Time Schedule of the Seminar

Thursday, October 16, 2003

18.30 - 20.00 Registration (Hotel Helios)

19.00 - Supper

Friday, October 17, 2003

8.00 - 8.40 Breakfast (Hotel Helios)

9.00 - 10.30 Session ① (Stara Polana)

10.30 - 11.00 Coffee break

11.00 - 12.40 Session ②

13.00 - 14.00 Lunch (Hotel Helios)

14.30 - 16.00 Session ③ (Stara Polana)

16.00 - 16.30 Coffee break

16.30 - 18.10 Session ④

19.00 - Banquet (Hotel Helios)

Saturday, October 18, 2003

8.00 - 8.40 Breakfast (Hotel Helios)

9.00 - 10.30 Session ⑤ (Stara Polana)

10.30 - 11.00 Coffee break

11.00 - 12.20 Session ⑥

13.00 - 14.00 Lunch (Hotel Helios)

14.00 - 19.00 Excursion

19.00 - Supper

Sunday, October 19, 2003

8.00 - 8.40 Breakfast (Hotel Helios)

9.00 - 10.20 Session ⑦ (Stara Polana)

10.20 - 10.50 Coffee break

10.50 - 12.10 Session ⑧

12.10 - 12.40 Final Discussion and Closure of the Seminar

13.00 - Lunch (Hotel Helios)

Program

Friday, October 17, 2003

9.00 - 10.30 : Session ① Chairman: Z.Waszczyzyn

Kurutz, Marta (H): *Recent Results and Future Plans on Experimental and Numerical Analysis of Some Biomechanical Problems*

Károlyi, György (H): *Kinematical Models of the Growth of Filamental Micro-Organisms*

Pálfi, Péter (H): *Locally Orthotropic Femur Model*

10.30 - 11.00 : **Coffee break**

11.00 - 12.40 : Session ② Chairman: J.Orkisz

Kaczmarczyk, Łukasz and Zenon Waszczyzyn (P): *Neural Procedures for the Hybrid FEM/NN Analysis of Elastoplastic Plates*

Jakubek, Magdalena and Anna Urbańska (P): *Application of FWNN to Neural Analysis of Experimental Mechanics Problems*

Knitter-Piątkowska, Anna , Zbigniew Pozorski and Krzysztof Ziopaja (P): *Wavelet Transform as a Tool in Damage Identification*

Wrana, Bogumił and Przemysław Ruchała (P): *Viscous Damping Identification by Means of the Wavelet Transformation*

Wrana, Bogumił and Anna Borowiec (P): *Analysis of Two Phase Soil Result by Means of the Wavelet Transformation*

13.00 - 14.00 : **Lunch**

14.30 - 16.00 : Session ③ Chairman: M.Kurutz

Szefer, Gwidon (P): *Molecular Stress Analysis in Solids and Structures*

Kędzior, Dariusz (P): *A Behaviour of Elastic Materials with Negative Poisson's Ratio in Dynamic Contact Problems*

Pichler, Christian , Roman Lackner and Herbert A. Mang (A): *Continuum-Micromechanics Approach for Determination of Macroscopic Dilatation of Cement-based Materials Related to Autogenous Shrinkage at Lower Scales of Observation*

16.00 - 16.30 : **Coffee break**

16.30 - 18.10 : Session ④ Chairman: J.Pamin

Mang, Herbert A. and Christian Schranz (A): *Conversion of the Initial Postbuckling Behavior of Elastic Structures - Part I: Theory*

Schranz, Christian and Herbert A. Mang (A): *Conversion of the Initial Postbuckling Behavior of Elastic Structures - Part II: Numerical Investigation*

Rzeszut, Katarzyna (P): *Stability Analysis of Thin-Walled Members Made of Σ Cross-Sections Accounting for Local Imperfections*

Matuszak, Aleksander (P): *Solution of Partial Material Replacement Problem by Integrating Ordinary Differential Equations*

Jaśkowiec, Jan and Piotr Pluciński (P): *Multiple Crack Growth Analysis in Concrete Structures Under Rebar Corrosion*

Saturday, October 18, 2003

9.00 - 10.30 : Session (5) Chairman: H.Mang

Lackner, Roman , A. Jäger , K. Kappl , M. Spiegel , R. Blab and J. Eberhardsteiner (A): *Optimization of Multi-Composed Materials: Application to Asphalt Pavements*

Hofstetter, Karin and Josef Eberhardsteiner (A): *Thermal Effects and Local Abrasion in Rubber Friction Processes*

Fleischmann, Martin , Peter Mackenzie-Helnwein and Josef Eberhardsteiner (A): *Experimental Investigation of Spruce Wood in Different Material Directions and Constitutive Modelling as an Orthotropic Plasticity Model*

10.30 - 11.00 : **Coffee break**

11.00 - 12.40 : Session (6) Chairman: R.Lackner

Karolak, Jacek and Andrzej Winnicki (P): *Hoffman Viscoplasticity Model and its Applications to RC Structures*

Hincz, Krisztián and Dezső Hegyi (H): *The Time-Dependent Behaviour of Prestressed Membrane Structures*

Żebro, Tomasz and Jerzy Pamin (P): *Selected Gradient Plasticity Algorithms and Applications in Statics and Dynamics*

Wosatko, Adam , Jerzy Pamin and Andrzej Winnicki (P): *Finite Element Simulations of Concrete Fracture Using Gradient Damage*

13.00 - 14.00 : **Lunch**

Sunday, October 19, 2003

9.00 - 10.20 : Session (7) Chairman: G.Karolyi

Pichler, Bernhard , Christian Hellmich and Herbert A. Mang (A): *Loading Assumptions for Impact of Rocks onto Gravel*

Konior, Tomasz and Andrzej Truty (P): *Finite Element Models of Injection Piles*

Putanowicz, Roman (P): *Use of XML as Scientific Data Exchange File Format*

Jaworska, Irena (P): *Postprocessing Visualization of the Adaptive Mesh Generator for Meshless FDM and FEM*

10.20 - 10.50 : **Coffee break**

10.50 - 12.10 : Session (8) Chairman: Z.Waszczyzyn

Pomezanski, Vanda (H): *Addenda to Support Optimization*

Milewski, Sławomir and Janusz Orkisz (P): *On Higher Order MFDM in 1D Problems*

Németh, Róbert (H): *Parasitic Solutions of Discrete Model of a Twisted Ring*

Kovács, Flórián (H): *Symmetry-Adapted Mobility and Stress Analysis of Generalised Bar-and-Joint Structures*

12.10 - 12.40 : **Final Discussion and Closure of the Seminar**

13.00 - 14.00 : **Lunch**