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Sokol Milan, PhD + 421 2 59274 448 sokol@cvt.stuba.sk

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II. EQUIPMENT

II.1 Teaching and Research Laboratories

Small laboratory for experimental mechanics
II.2 Special Measuring Instruments and Computers

22 PCs connected to a local network  
Static/dynamic tensometric equipment  
Photoelasticimeter  
Helium-neon laser  
Memory oscilloscope for analysis of dynamic processes

III. TEACHING

III.1 Graduate Study

Architecture and Civil Engineering

<table>
<thead>
<tr>
<th>Subjects</th>
<th>Semester</th>
<th>Hours Per Week</th>
<th>Lecturer</th>
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<tr>
<td>Statics</td>
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<td>P. Roško</td>
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<td>J. Sumec</td>
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<td>3 - 3</td>
<td>Z. Mistríková</td>
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<td>N. Jendželovský</td>
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<td>Building Analysis</td>
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<td>Elasticity Theory</td>
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<td>J. Sumec</td>
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<td>Numerical Method in Structural Mechanics</td>
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<td>Structural Dynamics</td>
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<td>2 - 2</td>
<td>M. Sokol</td>
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<td>Plate and Spatial Structures</td>
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<td>Non-Linear Mechanics</td>
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<td>2 - 2</td>
<td>J. Lovišek</td>
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<tr>
<td>Interaction of Structures and Foundations</td>
<td>9</td>
<td>2 - 2</td>
<td>N. Jendželovský</td>
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<tr>
<td>Special Problems in Dynamics and Statics</td>
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Engineering Construction

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<td>Y. Koleková</td>
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<td>Structural Dynamics</td>
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<td>3 - 2</td>
<td>P. Marton</td>
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<tr>
<td>Computer Modeling</td>
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<td>N. Jendželovský</td>
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<td>Structural Mechanics (In English)</td>
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<td>J. Dický,</td>
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Optional Subjects

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<th>Lecturer</th>
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<td>Stability of Structures</td>
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<td>J. Ravinger</td>
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<tr>
<td>Plasticity Analysis of Structures</td>
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<td>2 - 2</td>
<td>J. Sumec</td>
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<td>Seismic Engineering</td>
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<td>J. Králik</td>
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Recommended Subjects

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<th>Subjects</th>
<th>Semester</th>
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<th>Lecturer</th>
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<tr>
<td>Use of Computers in Civil Engineering</td>
<td>5</td>
<td>2 - 2</td>
<td>M. Sokol</td>
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<td>Structural Modeling Using FEM</td>
<td>6</td>
<td>2 - 2</td>
<td>J. Ravinger</td>
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<td>Automation in the Statics of Structures</td>
<td>7</td>
<td>2 - 2</td>
<td>J. Králik</td>
</tr>
<tr>
<td>Structural Modeling in Statics and Dynamics</td>
<td>7</td>
<td>2 - 2</td>
<td>P. Roško</td>
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<td>CAD in the Design of Structures</td>
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<td>0 - 2</td>
<td>L. Prekop</td>
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<td>Automation in Structural Dynamics</td>
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<td>2 - 2</td>
<td>J. Králik</td>
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<tr>
<td>Practice in Structural Dynamics</td>
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<td>Viscoelasticity of Structural Systems</td>
<td>8</td>
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<td>J. Sumec</td>
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<tr>
<td>Automation in Non-Linear Structural Analysis</td>
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<td>J. Ravinger</td>
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<tr>
<td>Modelling Subgrades</td>
<td>9</td>
<td>2 - 2</td>
<td>N. Jendželovský</td>
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</table>

III.2 Postgraduate Study

Selected Aspects of Structural Mechanics
Selected Aspects of Applied Mathematics
Selected Aspects of Applied Physics
Planar and Spatial Structures
Mechanics of Bodies from Composite Materials
Finite Element Methods
Stability of Truss and Planar Structures
Structural Dynamics

IV. RESEARCH TARGETS

- Seismology - behaviour of building structures in seismic regions,
- Safety and reliability of nuclear power plant buildings under seismic, explosion and impact loads,
- Non-linear analysis of concrete and steel structures,
- Numerical analysis of static and dynamic soil-structure interaction,
- Development of computer methods in static, dynamic and non-linear structural analysis

V. RESEARCH PROJECTS

VEGA

**TEMPUS, SOCRATES**
1. SOKOL, M. : International Ruhr UNI Bochum exchange cooperation TU Bratislava, Fakulty Coordinator
2. SUMEC, J. : (Ceepus) Faculty Coordinator
3. DICKÝ, J.: Socrates – Erasmus Thematic Network Project: European Civil Engineering Education and Training (EUCEET). Faculty Coordinator
4. KOLEKOVÁ, Y.: Analysis, design and manufacturing recommendations for a glass – aluminium facade with improved strength properties according to Eurocode 9

**VI. COOPERATION**

**VI.1 Cooperation in Slovakia**

1. Institute of Construction and Architecture of the Slovak Academy of Science
2. Technical University of Košice
3. University of Žilina

**VI.2 International Cooperation**

1. Civil Engineering Institute of the Polish Academy of Science, Poland
2. Technical University of Opole, Poland
3. Technical University of Gliwice, Poland
4. Technical University of Cracow, Poland
5. Fakultät der Bauingenieurwesen Ruhr-Universität, Bochum, Germany
6. Bundesforschung und Prufzentrum, Arsenal, Vienna, Austria
7. Czech Academy of Sciences, Prague, Czech Republic

**VI.2.1 Visitors to the Department**

1. Assoc Prof. Andrzej Wawrzynek - University of Gliwice
2. Dr. Zbigniew Lipski - University of Gliwice
3. Dr. Ryszard Walentyński - University of Gliwice
4. Dr. J. Pilsniak - University of Gliwice
5. Dr. Jan Fedorowicz - University of Gliwice
6. Dr. Lidia Fedorowicz - University of Gliwice
7. Dr. S. Kempny - University of Gliwice
8. Dr. Micchial Matheja - University of Gliwice
9. Prof. Jan Kubik - University of Opole

VI.2.2 Visits of Staff Members and Postgraduate Students to Foreign Institutions

1. J. Dický – Norwegian University of Technology, Trondheim, Norway
2. J. Dický – Catalunya University of Technology, Barcelona, Spain
3. J. Dický – University of Civil Engineering, Bucharest, Romania
4. P. Fajna - Carl University in Prague, Czech Republic
5. P. Fajna - Konrad - Zuse-Zentrum fur Informationstechnik, Berlin, Germany
6. T. Javorek - Carl University in Prague, Czech Republic
7. T. Javorek - Institute of Kurt Bösch, Sion, Switzerland
8. J. Lovíšek - Carl University in Prague, Czech Republic
9. J. Lovíšek – Institute of Mathematics, Academy of Sciences of the Czech Republic
10. I. Koleková - Ruhr University, Bockum, Germany

VII. THESES

VII.1 Graduate Theses

<table>
<thead>
<tr>
<th>No.</th>
<th>Student’s name</th>
<th>Title</th>
<th>Supervisor</th>
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<tbody>
<tr>
<td>1</td>
<td>Budinská Petra</td>
<td>Thin-Walled Girder with Circular Web Holes.</td>
<td>J. Ravinger</td>
</tr>
<tr>
<td>2</td>
<td>Drach Imrich</td>
<td>Static and Dynamic Analysis of a Dwelling House.</td>
<td>O. Ivánková</td>
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<tr>
<td>3</td>
<td>Krajčí Benjamin</td>
<td>Static Analysis of Business-Service Centre.</td>
<td>O. Ivánková</td>
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<td>4</td>
<td>Mrázová Radoslava</td>
<td>Spectrum Analysis of Response of Frame Structures to Seismic Effects - Programme Code.</td>
<td>M. Sokol</td>
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<tr>
<td>5</td>
<td>Rajníček Martin</td>
<td>Optimal Design of Polus City Center Building Structure under Seismic Loads</td>
<td>J. Králik</td>
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<td>6</td>
<td>Ralbovská Terézia</td>
<td>Swimming Pool Roof - Steel Space Structure.</td>
<td>M. Sokol</td>
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<td>7</td>
<td>Tosecký Andrej</td>
<td>Numerical Analysis of Soil Vibrations Caused by Moving Load on a Rigid Road.</td>
<td>M. Sokol</td>
</tr>
<tr>
<td>8</td>
<td>Tokár Otto</td>
<td>Static and Dynamic Analysis of a Church Tower.</td>
<td>P. Marton</td>
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VII.2 Doctoral Theses

<table>
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<th>No.</th>
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<th>Supervisor</th>
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<tr>
<td>1</td>
<td>Fajna Pavol</td>
<td>Soil Structure Interaction Problem Considering Characteristics of Nonlinear Material during Seismic Action</td>
<td>J. Králik</td>
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<tr>
<td>2</td>
<td>Javorek Tomáš</td>
<td>Nonlinear Problems of Arches and Shell Structures</td>
<td>J. Králik</td>
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<tr>
<td>3</td>
<td>Kleiman Peter</td>
<td>Vibration of Imperfect Slender Webs</td>
<td>J. Ravinger</td>
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<tr>
<td>4</td>
<td>Prekop Ľubomír</td>
<td>Interaction of Wall System with Subsoil Including the Effect of Material Nonlinearity</td>
<td>N. Jendželovský</td>
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</table>
5. Psotný Martin  Nonlinear Buckling Analysis of Thin-Walled Structures  J. Ravinger
6. Šimonovič Miroslav  Interaction of Structures with Subsoil Using Infinite Elements  J. Králik
8. Vyskoč Eduard  Non-Linear Analysis of Reinforced Concrete Structures  J. Ravinger

VIII. OTHER ACTIVITIES

VIII.1 Special Lectures


VIII.2 Commercial Activities for Firms and Institutions

4. RAVINGER, J. : (04-228-01) Static – dynamic resolution of parabolic antenna, Hydrostav Košice
5. SOKOL,M.: (04-33-01) Detailed Calculation of Seismic Effects on Pružinka Bridge, CEMOS Bratislava
6. SOKOL,M.: (04-128-01) Detailed Calculation of Seismic Effects on a Railway Bridge, CEMOS Bratislava

VIII.3 Conferences and Workshops Organized

IX. PUBLICATIONS

IX.1 Journals


IX.2 Books and Textbooks

IX.3 Conferences


[53] SUMEC, J., JENDŽELOVSKÝ, N.: Thermomechanical Response of Lattice Circular Plate Under a Transverse Vibrating Load (Full text, CD ROM), TP 073, pp. 1-12


