



Politechnika Łódźka



International Seminar

LSCE
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Łódź, grudzień 2018 r.

XXIV International Seminar of Lightweight Structures in Civil Engineering

7th of December 2018
Lodz University of Technology

Friday, 7th of December 2018

9.00-9.15 Opening Ceremony

Session no 1 – Chairman: *prof. Marcin Kamiński*

- 9.15-9.35 **J. B. Obrębski**
Short history of IASS Polish Chapters and LSCE conferences
- 9.35-9.55 **J. B. Obrębski**
*Analysis and forms of structures critical states - **Plenary Lecture***
- 9.55-10.15 S. Gellin, **R. Tarczewski**
*Computational approach to bending active modular inflated shells – state of the art – **Keynote Lecture***
- 10.15-10.30 **J. Szymański, C. Machelski**
The Lightweight structure of buildings from sandwich prefabricated elements
- 10.30-10.45 **R. Walentyński, R. Cybulski**
Analysis of local stability of doubly corrugated cold-formed profiles
- 10.45-11.00 E. Leogrande, **K. Rzeszut, T. Szumigala**
Measurement methods of trapezoidal sheeting imperfections
- 11.00-11.30 Coffee Break

Session no 2 – Chairman: *prof. Romuald Tarczewski*

- 11.30-11.50 **S. Jemiolo, A. Franus**
*Application of hyperrealistic material models in large strains stability analysis of shell structures - **Keynote Lecture***
- 11.50-12.10 **B. Blachowski, P. Tazowski, J. Logo**
*Stress intensity driven topology optimization for morphogenesis of 3D elastoplastic Structures – **Keynote Lecture***
- 12.10-12.25 **D. Pilarska**
Coparative analysis of various design solutions of octahedron – based spatial bar Structures
- 12.25-12.40 **J. Oman, B. Weller**
Post-tensioned segmental glass beams – effect of initial cable tension on load-bearing behaviour
- 12.40-12.55 **M. Grzywiński**
Teaching-learning-based optimization algorithm for design of braced dome structures
- 12.55-13.10 J. Szafran, **K. Juszczak, M. Kamiński**
Reinforcements of tower Structures: effective and economic design engineering
- 13.10-14.30 Lunch

Session no 3 – Chairman: *prof. Stanislaw Jemiolo*

- 14.30-14.50 **K. Rzeszut**
*Selected aspects of stability of thin-walled steel structures with clearances and initial imperfections - **Keynote Lecture***
- 14.50-15.10 **M. Gajdzicki**
*Rotational restraint provided to cold-formed Z-purlins by trapezoidal sheeting in negative position - **Keynote Lecture***
- 15.10-15.25 **L. Malyszko, A. Rutkiewicz, P. Bilko**
Dynamic response of a tensegrity simplex in impact hammer tests
- 15.25-15.40 **M. Pelczarski**
Active seabed scour protection research
- 15.40-15.55 I. Gołębiewska, **M. Dutkiewicz, B. Usewicz**
Friction sliding bearing in engineering structures
- 15.55-16.30 Coffee Break

Session no 4 – Chairman: *prof. Jan Bogdan Obrębski*

- 16.30-16.50 **K. Winkelmann**
*Probabilistic methods in reliability assessment of engineering lightweight Structures – **Keynote Lecture***
- 16.50-17.05 A. Piotrowski, M. Gajewski, C. Adjukiewicz, Ł. Kowalewski, **S. Jemiolo**
Experimental and numerical determination of critical forces for perforated thin walled bars
- 17.05-17.20 **A. Rduch, Ł. Rduch, M. Pitas, M. Kot, T. Hahn, K. Konopka, R. Walentyński**
Tensile strength testing of composite rods based on glass fibers from prefabricated reinforcing grids
- 17.20-17.35 **M. Z. Obrębski**
Comparizon of GC and CM systems from investment effectivity point of view
- 17.35-17.50 **W. Bober, P. Stobiecki**
Prefabricated elements in Wacław Zalewski design
- 17.50-18.30 Meeting of IASS Polish Chapters
- 18.30 Farewell dinner