

FRIDAY, 6th of December 2019

9.00-9.15 Opening Ceremony

Session no 1 – Chairman: prof. Romuald Tarczewski

9.15-9.25 **J.B. Obrębski**

Dedication for Professor Mamoru Kawaguchi 1932-2019

9.25-9.45 **J.B. Obrębski**

Past and future of lightweight structures – Plenary Lecture

9.45-10.00 **C. Ajdukiewicz, M.D. Gajewski, M. Kucharski**

Application of FEM and large deformation theory for elasto-plastic analysis of the thin-walled profile performance used for fixing ventilated facades

10.00-10.15 **A. Piotrowski, M. Gajewski, C. Ajdukiewicz**

Experimental determination of critical forces for perforated thin walled bars in case of hinged support

10.15-10.30 **R. Walentyński, M. Siwek**

Thin-walled profiles in temporary steel halls

10.30-10.45 **J. Łątka, R. Tarczewski**

Practical application of the "learning by doing" method in developing the structural intuition of architects

10.45-11.00 **W. Domański, S. Jemioło, A. Franus**

Propagation of elastic waves for a polyconvex hyperelastic model

11:00-11.30 Coffee Break

Session no 2 – Chairman: prof. Jan Bogdan Obrębski

11.30-11.50 **M.M. Kamiński**

New challenges behind the generalized stochastic perturbation technique in structural mechanics – Plenary Lecture

11.50-12.05 **J. Szafran**

Day before 5g technology implementation - support structures for telecommunication in Poland

12.05-12.20 **A. Rutkiewicz, L. Malyszko**

Remarks from own experiments on tensegrity tower design

12.20-12.35 **A. Rutkiewicz, L. Malyszko**

Eigenvalue analysis of quadruplex tensegrity tower

12.35-12.50 **I. Gołbiewska, M. Dutkiewicz**

Dynamical response of the cable under the wind load

12.50-13.05 **R. Szmit, A. Madej**

Structural bionics in civil engineering: numerical analysis of cylindrical observation tower

13.05-14.30 Lunch

Session no 3 – Chairman: prof. M.M. Kamiński

14.30-14.50 **S. Jemioło, A. Franus**

Slightly compressible hyperelastic material models – Keynote Lecture

14.50-15.05 **A. Franus, S. Jemioło, A. Marek**

Analysis of hyperelastic thin shell using slightly compressible material model

15.05-15.20 **E. Kowalska, P. Bilko**

The use of 3D scanning technique for numerical analyzes of dynamic behavior of a masonry chimney

15.20-15.35 **D. Pilarska**

Size, shape, topology – multi-agent optimization approach for dome structures

15.35-16.00 Coffee Break

Session no 4 – Chairman: prof. S. Jemioło

16.00-16.20 **P. Bilko, L. Malyszko**

Modelling failure in test of wood shearing by means of FEM with own material model – Keynote Lecture

16.20-16.35 **A. Skoratko, A. Rutkiewicz**

Experimental results regarding shearing of wood

16.35-16.50 **E. Kowalska, M. Jurczak, P. Bilko**

Example of experimental modal identification tests of masonry arch – preliminary studies

16.50-17.05 **M. Jurczak, L. Malyszko**

Examples of experimental roving hammer tests of thin plates

17.05-18.00 Meeting of IASS Polish Chapters

18.00 Farewell dinner