

Space Sciences Committee of the Polish Academy of Sciences, Gdansk Branch,  
in cooperation with the Baltic Sea&Space Cluster, Polish Space Agency  
and Gdansk University of Technology

under

**the honorary patronage of the Polish Space Agency**

invite for a joint conference entitled

## **An Empirical Exploration of a Human and Technology Rise, *Prometheus Unleashed***

Gdansk University of Technology  
Gdansk, 24th March 2022

### **Conference program**

8.30 REGISTRATION

9.00 OPENING SESSION – chaired by Prof. dr hab. inż. Edmund Wittbrodt – President of the  
Space Sciences Committee of the Polish Academy of Sciences

Prof. dr hab. inż. Krzysztof Wilde - Rector of Gdansk University of Technology

Prof. dr hab. Grzegorz Wrochna - President of the Polish Space Agency

and

9.10 Prof. dr hab. inż. Tadeusz Uhl, *A space for sustainable development*, AGH, Cracow

9.30 Prof. dr hab. inż. Marek Moszyński, *Building National Satellite Information System*, Polish  
Space Agency

9.50 “YOUNG STARS” Session – chaired by Dr. Magdalena Konopacka

**Marta Pasternak**, *Determination of phenological phases of cultivated cereals using Sentinel-1 and Sentinel-2 data*, Wrocław University of Environmental and Life Sciences

**Artur Łukasik**, *PW-Sat2 deorbit sail effectiveness analysis from the perspective of orbital parameter measurement*, Warsaw University of Technology

**Dominik Duda**, *Mental state of the participants during analog lunar mission*, Academy of Physical Education and Sport, Gdansk

**Dominika Lech, Michał Kropski, Bartosz Kryński, Jakub Sulewski**, *6 wheeled Martian vehicle*, Faculty of Mechanical Engineering and Ship Technology, Gdansk University of Technology

**Rafał Markowski**, *High-performance Grid Fins for missile control*, Faculty of Mechanical Engineering and Ship Technology, Gdansk University of Technology

**Mateusz Czapski, Bartosz Rybacki, Wojciech Wysocki**, *Lessons learned during SRAD hybrid rocket motor development*, SimLE Student's Organisation, Gdansk University of Technology

*The best presentation will be awarded by the President of the Space Sciences Committee*

11.30 COFFEE BREAK

#### 11.40 APPLICATIONS' SESSION – chaired by Prof. dr hab. inż. Marek Grzybowski

- Kpt. **Alfred Naskręt**, *A Man on an Automated Vessel*, Director, Maritime School Gdynia
- **Tomasz Lisiecki**, *A Man in the Virtual World*, President, CNCOM, ASE Group
- **Maciej Brzozowski**, *A Man in an Automated Port – PORT HAMBURG Case*, Head of Representative Office in Poland, Port of Hamburg Marketing
- **Maciej Lang**, *A Man as a utilizer of integrated hydrographic, topographic and photogrammetric data*, Owner, CEO, Hydronous

#### 12.50 COFFEE BREAK

#### 13.00 RESEARCH SESSION – chaired by Prof. dr hab. inż. Zbigniew Łubniewski

Prof. **Marek Galewski**, *See more see better – neural networks in image processing*, Gdansk University of Technology

Prof. **Piotr Szymak**, *Autonomous biomimetic underwater vehicles with silent undulating propulsion*, Polish Naval Academy, Gdynia

Prof. **Krzysztof Lipiński**, *Fundamentals of mechanics towards applications in multibody robot-based manipulatorsystems*, Gdansk University of Technology

Prof. **Krzysztof Falkowski**, *Some discussion remarks on development of UAV unmanned aerial vehicles*, Military University of Technology, Warsaw

Prof. **Marcin Dornowski**, *Neurofeedback EEG in lowering the stress reaction during analog lunar mission*, Academy of Physical Education and Sport, Gdansk

Dr. **Paweł Chyc**, *Technological freedom in outer space*, University of Business and Administration, Gdynia

Dr. **Magdalena Konopacka**, *The EU Regulatory Approach to Algorithmic Decision-Making*, University of Business and Administration, Gdynia

- Prof. **Mirosław K. Gerigk**, *Challenges associated with control of autonomous underwater vehicles*, Gdansk University of Technology

- Dr. **Maciej Henzel**, *A voice in discussion on development of unmanned aerial vehicles*, Vice-Director of the Aviation Technology Institute, Military University of Technology, Warsaw

- Prof. **Ryszard Kłos**, *A voice in discussion on the UUV and AUV unmanned vehicles*, Polish Naval Academy, Gdynia

#### 15.00 DISCUSSION AND CLOSING SESSION - by Prof. Edmund Wittbrodt and Prof. Zdzisław Brodecki

**Because of the Covid-19 pandemic situation the Conference is treated as hybrid event**

