



# Celebrating

# the 250<sup>th</sup> anniversary of the birth of

# Jędrzej

# Śniadecki



## Jędrzej Śniadecki

# BioMedical Workshop

## for Health & Wellbeing of Kujawy & Pomorze Population 3rd Edition

4-5 June 2018

UTP University of Science and Technology  
Bydgoszcz, Poland

UTP Bydgoszcz Fordon Campus, RCI  
Al. prof. S. Kaliskiego 7, Bydgoszcz  
Senate Hall C8

The Biomedical Workshop enters its 3rd realization in recognition of the scientific contributions of Prof. Jędrzej Śniadecki (1768 – 1838). The workshop centers on a range of issues related to the impairment of human locomotion as well as a variety of biological and health related problems at scales both large and small.

In particular, the topics addressed concern:

- the spread of infection disease
- physiological mechanisms of motion
- orthoses and prostheses
- biocompatibility
- mechanical function of biomaterials
- thermodynamics of physiologically active matter
- rheology in low Reynolds number environments

In spirit of the accomplishments of Prof. Jędrzej Śniadecki, a prominent and far-seeing investigator of his times, the overall aim and scope of presented work will touch the fields of his original research and practice.

There is a substantial link between Jędrzej Śniadecki's own qualitative findings on the role of vitamin D in bone disorders, reintroduced to the scientific community by W. Mozołowski [Nature – 1939, from Stefan Batory University of Vilnius], and the principle scope of the Biomedical Workshop – itself including research into all aspects of orthopedic disorders, from their biomechanical mechanisms and physiology to development and implementation of solutions at the societal level.

An even deeper connection between several presented topics and Śniadecki's original work can be easily found when browsing the following review paper:

"Vitamin D and Its Effects on Articular Cartilage and Osteoarthritis" ( R. J. Garfinkel et al.), see <http://journals.sagepub.com/doi/abs/10.1177/2325967117711376>.

### Scientific Committee:

- Prof. Tomasz Topoliński (Rector of the UTP University of Science and Technology)
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### Keynote Speakers:

- Martin Bier (East Carolina University, Greenville, NC, USA)
- Thomas Goudoulas (Technische Universität München, Munich, DE)
- Zbigniew J. Grzywina \* (Silesian University of Technology, Gliwice, PL)
- Adam Kleczkowski <sup>1</sup> (University of Strathclyde, Glasgow, UK)
- Wiesław Nowak (Nicolaus Copernicus University, Toruń, PL)
- Anna Ochab-Marcinek (Polish Academy of Sciences, Warsaw, PL)
- Nicola Pugno <sup>1</sup> (University of Trento, Trento, IT)
- Arunas Ramanavicius (Vilnius University, Vilnius, LT)
- Miguel Rubi \* (University of Barcelona, Barcelona, ES)
- Lutz Schimansky-Geier \* (Humboldt Universität zu Berlin, Berlin, DE)
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- Anna Stawińska (UTP, Bydgoszcz, PL)
- Krzysztof Wierzchowski (Koszalin University of Technology, Koszalin, PL)
- Tadeusz Wysocki & Beata Wysocki (University of Nebraska, Lincoln, NE, USA)
- Michał A. Żmijewski (Medical University of Gdańsk, Gdańsk, PL)

\* Honorary Keynote Speakers

<sup>1</sup> Video talk

### Contributed talks:

- Angela Andrzejewska (UTP, Bydgoszcz, PL)
- Piotr Bełdowski (UTP, Bydgoszcz, PL)
- Ilaria Corridori (University of Trento, Trento, IT)
- Stanisław Jung (UTP, Bydgoszcz, PL)
- Natalia Kruszewska (UTP, Bydgoszcz, PL)
- Aleksandra Mreła & Zenon Pawlak (KPSW, Bydgoszcz, PL)
- Ihor Orlovskiy (UTP, Bydgoszcz, PL)
- Neil Petroff (Tarleton State University, USA)
- Magdalena Piesik (CM UMK, Bydgoszcz, PL) & Anna Wenda-Piesik (UTP, Bydgoszcz, PL)
- Jacek Siódmiak (UTP, Bydgoszcz, PL)
- Katarzyna Walczewska-Szewc (UMK, Toruń, PL)

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