



HTIC 2026

26 October 2026

DETAILED PROGRAMME

Biomedical Engineering:

From Research to Real-World Impact

8:00 – 9:00

- | Registration

09:00 – 09:15

- | Opening and Welcome Ceremony

09:15 – 10:00

- | Keynote Lecture

The AI Arms Race in Medicine: Winning the Quarter, Losing the Decade?

Prof. Wojciech Czakon, PhD, Dr h.c., Jagiellonian University in Kraków

10:00 – 11:30

- | AI in medicine

Chair: Prof. Paweł Badura

Towards AI-Based Digital Twins for Personalised Healthcare

Prof. Ivan Olier, Liverpool John Moores University

When will AI assist doctors, and when will it replace them?

Prof. Piotr Buszman, MD, PhD, American Heart of Poland

Towards Personalized Treatment of Retinal Diseases through AI-Enabled Comprehensive Patient Assessment

Daniel Ledwoń, PhD Eng., Silesian University of Technology

Cabiomede (15') TBA

11:30 – 12:00 | Coffee break

12:00 – 13:30

• | 3D printing and personalized medicine

Chair: Prof. Wojciech Wolański

3D Printing Inside an Orthopedic Hospital: From Idea to Clinical Value

Przemysław Czuma, MD, The Dr Janusz Daab Independent Public Provincial Hospital for Trauma Surgery in Piekary Śląskie

Automated Design of 3D-Printed Lightweight Hand Orthoses from 3D and 4D Scanning Data

Filip Górski, PhD, DSc, Beng., Poznań University of Technology

The use of 3D printing technology, virtual surgical planning and customised implants in maxillofacial and reconstructive surgery

Krzysztof Dowgierd, MD, PhD, Prof. UWM, Provincial Specialist Children's Hospital in Olsztyn

Additive technologies in biomedical engineering. Research potential and ongoing projects carried out at the Department of Biomaterials and Medical Device Engineering

Wojciech Kajzer, PhD Eng., Silesian University of Technology

FindTech (15') TBA

13:30 – 14:15 | Lunch break

14:15 – 16:00

• | The Biomedical Engineering Sector in the regional perspective: Ecosystem, Environment and Development Prospects

Co-chairs: Prof. Lilla Knop, PhD, DSc, Eng. and Prof. Marcin Kaczmarek, PhD, Eng.

Ecosystems for business models in the biomedical engineering sector in the Silesian Voivodeship

Prof. Sławomir Olko, PhD, DSc, Eng., Silesian University of Technology

Biomanufacturing regions for integrated development and Growth in the ecosystem

TBC

Future Competencies of a Biomedical Engineering Graduate

Aneta Aleksander, PhD Eng., Silesian University of Technology

Coordinating the Flow: Contemporary Challenges in Medical Device Distribution Systems.

Mariusz Kmiecik, PhD Eng., Silesian University of Technology

ChM 15' TBA

16:00 – 16:30 | Coffee break

16:30 – 18:15

- **| E-poster Session / Meeting of Deans**

Nanostructured Coatings for Biomedical Applications

Matteo Montesissa, Marco Boi, IRCCS Rizzoli Orthopaedic Institute

Innovaris (15') - TBC

Poster Presentations

18:15 – 18:30

| Awards and Closing

19:00 - 22:00

| Evening Events

Gala Dinner: the Meeting of the Scientific Committee, Speakers, Presenting Participants & Invited Guests (Diament Hotel, Zabrze)

Student Social & Networking Evening (Student Zone at the Faculty of Biomedical Engineering)

