



*crp*

**42<sup>nd</sup> Conference of  
Rectors and Presidents of  
European Universities of Technology**

**The university's role  
in global health and well-being**

**September 20<sup>th</sup> – 21<sup>st</sup>, 2024**

**Final Programme**

**2024 Conference host: Rector Mihnea Costoiu  
National University of Science and Technology  
Politehnica Bucharest**

**Conference Venue:  
NUST-Politehnica Bucharest  
Splaiul Independenței 313, Bucharest, Romania RO-060042**

# Invitation to the 2024 Conference at NUST-Politehnica Bucharest

Dear colleagues,

We cordially invite you to crp2024, the 42nd Conference of Rectors and Presidents of European Universities of Technology, at National University of Science and Technology Politehnica Bucharest.

The European countries' health and social care systems provide high quality care; however it is crucial for universities of science and technology to innovate and produce new technologies and ways of working to ensure the standards of care are maintained. The work done in universities is started from the students we educate to the research we carry out and through our impact on the global world.

The universities are developing cutting edge research through multi-disciplinary collaborative approaches, thus bringing in research teams from across the health care, social care, academics, private and voluntary sectors which may take forward high-quality research for the benefit of the patients, managers, and policy makers.

Health-related research has extensively improved the lives of our society and contributed to the greater wellbeing of our society. The new technologies and the ultimate scientific discoveries have led to new treatments, new approaches for thinking and the development of new policy.

At crp2024, keynote speakers will discuss the conference topics from different points of views and leaders of European Universities of Technology will share their institution's strategies for approaching enlarged contribution to global health and wellbeing.

## Discussions at the 2024 Conference will address issues such as:

- Universities' research strategies for health improvement treatments and the enhancement of wellbeing of the society
- Universities' innovation in healthcare covering microelectronics, sensors, system integration and healthcare technology assessment
- All forms of digital health, data and image analytics, optimizing algorithm, artificial intelligence
- New ways in development of active pharmaceutical ingredients and in production of drugs
- The new curriculum focused on multi-disciplinary courses related to health and general approaches for health innovation
- Institutional strategies to promote a culture of health and wellbeing among students and employees,
- Advanced universities' contributions across electrical and biomedical engineering as well as emerging technologies which are influencing healthcare today: communication systems, computer science, sensing technology, etc.
- Contribution of universities to healthcare engineering education & training as well as for healthcare intervention: technologies for disease prevention, diagnosis, treatment and management, technologies for patient care, technologies for allied health specialties and engineering for dental and medical specialties, engineering for pharmacy.

We are looking forward to meeting you in Bucharest in September 2024!

**Mihnea Costoiu**  
Rector, NUST-Politehnica Bucharest  
crp2024-Host

**Harald Kainz**  
crp Coordinator  
TU Austria

# Programme, Day 1

## September 20<sup>th</sup>, 2024

- 09:30 - 10:00 **Arrival of participants at Conference Venue**
- 10:00 - 12:30 **Campus Tour**
- 12:30 - 13:30 **Registration and Buffet Lunch**
- 13:30 Accompanying persons' departure for afternoon programme (see page 7)
- 13:30 - 14:10 **Opening Session**
- 13:30 - 13:40 **Welcome by the crp2024 host**  
Mihnea Costoiu, President, NUST-Politehnica Bucharest, Romania
- 13:40 - 14:00 **Official Opening**  
Ligia Deca - Minister of Education and  
Bogdan-Gruia Ivan - Minister of Research, Innovation and Digitalization,  
Romania
- 14:00 - 14:10 **Introducing the Conference**  
Harald Kainz, crp Coordinator, TU Austria
- 14:10 - 18:00 **Keynote Speeches**  
Chair: Harald Kainz, crp Coordinator, TU Austria
- 14:10-14:40 **Continuous Health Monitoring for Preventive Medicine**  
Thomas Deserno, TU Braunschweig,  
President European Federation for Medical Informatics
- 14:40-15:10 **Ulster's Connected Health Innovation Center**  
Chris Nugent, Ulster University, Northern Ireland, UK
- 15:10-15:30 Discussion
- 15:30 - 16:00 **Break**

**Programme, Day 1 (continued)**  
**September 20<sup>th</sup>, 2024**

16:00 - 17:30 Keynote Speeches (continued)

16:00-16:30 **Digital Twins and AI in Biomedical Technology**  
**In-silico meets in-vitro/in-vivo**  
Christian Baumgartner, TU Graz, Austria

16:30-17:00 **The impact of biomedical engineering and mechanics**  
**on vascular health and wellbeing**  
Stéphane Avril, Saint. Étienne, France

17:00-17:30 **Intelligent Health and Physical Sensors**  
Olga Korostynska, Oslo Metropolitan University, Norway

17:30-18:00 Final discussion and round up

19:00 Departure from rectorate building or walk from hotel

**19:30 Gala Dinner**  
National Military Cercle, The Marble Hall  
Constantin Mille 1-3, Sektor 1, Bucharest

## Programme, Day 2 September 21<sup>st</sup> 2024

- 09:00-11:00     **Session 1:**  
Chair: John Doran, President, TU Dublin, crp2023 Host
- 09:00 - 09:30    **Technological and systemic approaches of biomechanics and bioengineering: from fundamental science to patient bedside applications at Université de Technologie de Compiègne**  
Claire Rossi, University of Technology Compiègne, France
- 09:30 - 10:00    **The new concept of Bioengineering Valley at Politehnica Bucharest**  
Mihnea Costoiu,  
National University of Science and Technology Politehnica Bucharest, Romania
- 10:00 - 10:30    **Aalborg Universities new mission-oriented approach to secure a learning healthcare system using digital technologies by 2040**  
Per Michael Johansen, Aalborg University, Denmark
- 10:30 - 11:00    **New trends in medical robotics**  
Bogdan Gherman, Technical University of Cluj Napoca, Romania
- 11:00 - 11:20    **Discussion**
- 11:20 - 11:40    **Break**
- 11:40 - 12:50    **Session 2**  
Chair: Mihnea Costoiu, Rektor, NUST-Politehnika Bucharest
- 11:40 - 12:10    **Research and education in biomedical engineering at UPV: two decades of successful growth in joint initiatives**  
Jose Capilla-Roma, University of Technology Valencia, Spain
- 12:10 - 12:40    **Chemistry at the service of Health, how to develop a research and education strategy in a novel University context.**  
Christian Lerminiaux, Chimie ParisTech-PSL, France
- 12:40 - 12:50    **Final discussion**

## **Programme, Day 2 (continued)** **September 21<sup>st</sup>, 2024**

- 12:50 – 13:10    **Conference Conclusions, Outlook and Closing**  
Chair: Harald Kainz, crp Coordinator, TU Austria
- 12:50– 12:55    **Conference Conclusions**  
Mihnea Costoiu, Rector, NUST-Politehnika Bucharest, crp2024 Host
- 12:55 – 13:05    **Outlook to crp2025**  
Rector Arkadius Wójs, Wroclaw University of Science and Technology
- 13:05 – 13:10    **Conference closing**  
Harald Kainz, crp Coordinator, TU Austria
- 13:10 – 14:00    **Buffet Lunch**
- 14:00 – 18:30    **Post-Conference Excursion**
- 19:00            **Farewell Dinner** (see next page)



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**Locations of the Conference Sessions:**

**September 20<sup>th</sup> and 21<sup>st</sup>, 2024**

NUST- Politehnica Bucharest  
Splaiul Independenței 313, Bucharest, Romania RO-060042

**Social Programme on September 20<sup>th</sup> and 21<sup>st</sup>, 2024**

**September 20<sup>th</sup> 2024**

**Morning** (optional)

09:30 – 10:00 Arrival at NUST-Politehnica Bucharest

10:00 - 12:30 **Campus tour**

(**CAMPUS**, Center of Advanced Research on New Materials, Products and Innovative Processes,  
**PRECIS**, Research Center of Innovative Products, Processes and Services)

**Afternoon:**

13:30-17:00 **Accompanying persons' programme,  
Bucharest:**

**The Palace of Parliament**

**Evening:**

19:00 Departure from rectorate building or walk from hotel

**19:30 Conference dinner at National Military Cercle, Marble Hall**

(For the routes from the hotels to the dinner location separate information will be provided)

**September 21<sup>st</sup>, 2024**

14:00 Departure from Conference site

**Post-Conference Excursion for  
Conference participants and accompanying persons:**

**Visit to Potlogi Castle**

(<https://www.potlogi.ro/>)

**and**

**19:00 informal farewell dinner at university restaurant**

Return to hotels about 22:00



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**2024 Conference Host:  
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Rector  
NUST-Politehnica Bucharest, Romania**

**2024 Conference organisation at NUST-Politehnica Bucharest:**

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