

## INVITATION

for the Science Day event  
"Young people for science"

to be held in the organization of the Working Committee of the Materials and Production Engineering (WCMPE) of Mechanical and Informatics Expert Committee (MIEC) of Regional Committee in Miskolc (RCM) of the Hungarian Academy of Sciences (HAS)

Location: University of Miskolc; Institute of Manufacturing Science,  
Building C1, Ground floor, room 1

Date: **November 7, 2024** (Thursday) 9 a.m.

### Program

- 09:00-09:05 Dr. Gyula Varga: Opening
- 09:05-09:15 Ahmad Yasser Dakhel: The role on the complex loading conditions on the damage characteristics of pipeline sections
- 09:15-9:25 Viktória Ferencsik: Examination of the circularity of the generator stator (In Hungarian)
- 9:25-10:35 Mariann Fodorné Cserépi: Investigation on aluminium-steel welded joints (In Hungarian)
- 9:35-9:45 Dr. habil. Marcell Gyula Gáspár: Physical simulation investigations on 500 MPa strength category offshore steel (In Hungarian)
- 9:45-9:55 Inácio Manuel Junqueira: Process monitoring and control of the turning process used in Industry 4.0
- 9:55-10:05 Afraa Khattab: A Comprehensive Review on Advancing Plunge Milling and Cutting Systems
- 10:05-10:15 László Koroknai: Development possibility of acoustic emission testing for the industrial application (In Hungarian)
- 10:15-10:25 Krisztina Kun-Bodnár: Characteristics of a water jet turned surface (In Hungarian)
- 10:25-10:35 Tamás Makkai: Investigation of cutting force in face milling of stainless steel (In Hungarian)
- 10:35-10:45 Antal Nagy: Roughness square mean slope and reduced height deviation investigation on a surface face-milled with an octagonal insert
- 10:45-10:55 Nóra Nagy: Testing on exposed to hydrogen of transporting pipeline (In Hungarian)
- 10:55-11:05 Tanuj Namboodri: Correlation Analysis between components of force and vibration in turning of 11SMn30 Steel
- 11:05-11:15 Muhammad Ali Sadiq: Future trends and use of composites in aviation industry

11:15-11:25 Szilárd Smolnicki: Investigation of the Abbott-Firestone curve and carbon-dioxide emission characteristics during diamond burnishing (In Hungarian)

11:25-11:35 Frezgi Tesfom: 3D printed stainless steel 3D amplitude & spatial parameters study before and after successive grinding and burnishing process

11:35-11:45 Dr. Zsolt Lukács: Comments, closing of the Science Day event.

Dr. Gyula Varga  
chairman of WCMPE

Dr. Zsolt Lukács  
secretary of WCMPE