



ICMECE 2026 — 6. INTERNATIONAL CONFERENCE on MECHANICAL ENGINEERING
 · Imperial College London, UK · 8–9 July 2026 · www.icmece.org



ON-DESK REGISTRATION (09:00-12:00)

1. DAY (8 JULY 2026) - HALL A (PHYSICAL SESSIONS)

09:00-09:15 **OPENING SESSION** - The Welcome Messages Prof. Dr. Peter Childs (Chairman) - Prof. Dr. Erol Kurt (Founder & Chairman) Gazi University, Türkiye

SESSION 1A KEYNOTE SESSION - 1

Session Chair: Prof. Dr. Peter Childs

09:15-10:00 **Brain Mechanics: Linking Mechanical Loading, Biology and Real-World Impact** Assoc. Prof. Dr. Mazdak Ghajari, Imperial College London

10:00-10:30 **COFFEE BREAK**

SESSION 2A Design and AI Tools

Session Chair: Dr. Alborz Aghamalekisarvestani

10:30-10:50 4-An Intelligent Vibration Based Approach For Defect Detection In Friction Stir Welding Jeyakrishnan S (ARM College Of Engineering And Technology)*

10:50-11:10 64-Finite-Element-Driven Surrogate Modeling For Single-Direction Electromagnetic Force Capacity Prediction In Eight-Pole Radial Active Magnetic Bearings Lin Ma (Tsinghua University); Yajie Wang (Tsinghua University); Zhengang Shi (Tsinghua University); Xingnan Liu (Tsinghua University); Haoyu Zuo (Tsinghua University)*

11:10-11:30 66-Machine Learning-Based Classification And Diameter Estimation Of Milling Tools Agata Bieleń (University Of Information Technology And Management In Rzeszow)*; Jakub Wandas (University Of Information Technology And Management In Rzeszow)

11:30-11:50 68-Floating Spring Drive Load Break Switch For Sustainable SF6-Free Switchgears Alborz Aghamalekisarvestani (ABB AG)*; Pamir Kildis (ABB AG); Jianye Shi (ABB AG); Marco Lo Guzzo (ABB AG); Ole Granhaug (ABB Electrification Norway AS)

11:50-12:10 70-Pairings Of Actuators And Switching Mechanisms In Load Break Switches Jianye Shi (ABB AG)*; Marco Lo Guzzo (ABB AG); Alborz Aghamaleki Sarvestani (ABB AG); Ole Granhaug (ABB Electrification Norway AS)

12:10-13:00 **EVALUATION OF PHYSICAL SESSIONS and INFORMATION ABOUT JOURNAL SELECTIONS**

13:00-14:00 **LUNCH TIME**

GALA DINNER on 8th July 2026 at 18:30h Location: Fora Restaurant (34-36 Houndsditch, London EC3A 7DB, U.K.)

2. DAY (9 JULY 2026) - HALL A (ONLINE SESSIONS) The zoom link will be send to the authors

SESSION 1A Policies, Education and Strategies

Session Chair: Dr. Stephen Kofi Armah

09:00-09:15 63-The Engineering Evolution Of High-Performance Racing: A Triple-Phase Analysis Candice Geng (West Point Grey Academy)*

09:15-09:30 67-Dynamic And Vibration Analysis Of Quadrotor UAVs For Stability In Precision Agriculture Applications Stanley Agudu (Ashesi University)*

09:30-09:45 69-Design And Development Of A Low-Cost Shake Table For Vibration Analysis Alhassan Tawfiq Ahmed (Ashesi University)*; Stephen Kofi Armah (Ashesi University); Acheampong Antwi Afari (Ashesi University); Sullaiman Alhassan (Ashesi University)

09:45-10:00 106-Ultrasound Induced Bubble Oscillations Immersed In Viscoelastic Media Pablo Gil Fernández (Universidad Politécnica De Madrid)*; Katerina Foteinopoulou (Universidad Politécnica De Madrid)

10:00-10:15 107-FMEA, Weibull Analysis, And Reliability-Centered Maintenance For Centrifugal Pumps In Upstream Oil Production: A Systematic Review And Integrated Framework Ahad Al Wahaibi (UTAS)*; Dr.Muthuraman Subbiah (UTAS)