Annual General Meeting 2027
CALL FOR PAPERS

Lubrication for Automation, Robotics & Extreme Application

Exploring lubrication solutions for automated, robotic, and mission-critical equipment operating under extreme conditions. Topics may cover reliability, precision, lifetime lubrication, sustainability, condition monitoring, and emerging technologies across advanced industrial and mobile applications.

Would you be interested in presenting a paper on the above-mentioned theme at our **2027 AGM Bucharest, Romania**?

Papers that tie in with the 2027 theme will be given high priority.

Topics are not limited to the above criteria, other topics of interest to the grease industry are welcome and will be considered for presentation too. We have 14 slots for presentations, so do complete the Speakers' information form and submit your paper topic and abstract by **20th November 2026.**

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37th ELGI AGM
3rd–6th April 2027
JW Marriott, Bucharest

Automation, Robotics & Extreme Applications

Possible topics include:

- Lubrication challenges in highly automated manufacturing systems
- Lifetime lubrication concepts for robotics and autonomous equipment
- Greases for high precision and low-friction motion control
- Lubrication under extreme temperatures, loads, or contamination
- Lubrication of equipment operating in remote or inaccessible locations
- Smart lubrication, condition monitoring, and predictive maintenance
- Sustainability and energy efficiency in advanced machinery
- Material compatibility in robotics and lightweight equipment
- Novel grease technologies for next-generation applications
- Case studies, field experience, and validation methods for demanding environments

Example equipment and application types:

- Industrial robots (6-axis robots)
- Collaborative robots (cobots)
- Autonomous mobile robots (AMRs)
- Automated guided vehicles (AGVs)
- Humanoid robots
- Mining and autonomous haul trucks
- Construction and demolition robots
- Wind turbine pitch and yaw systems
- Space and aerospace mechanisms (satellites, rovers, actuators)
- High-speed automated warehouse and logistics systems

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