

Winter Newsletter 2023

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JANUARY TECHNICAL MEETING: Transforming the workforce of today and tomorrow

Our January speaker is Stewart McKinley. He is Skills Director of the Manufacturing Skills Academy, part of the National Manufacturing Institute Scotland. The Manufacturing Skills Academy offers advanced manufacturing training and development opportunities for individuals at all levels of their career.

The meeting will provide an opportunity to discuss current industrial skills requirements in materials processing and forming.



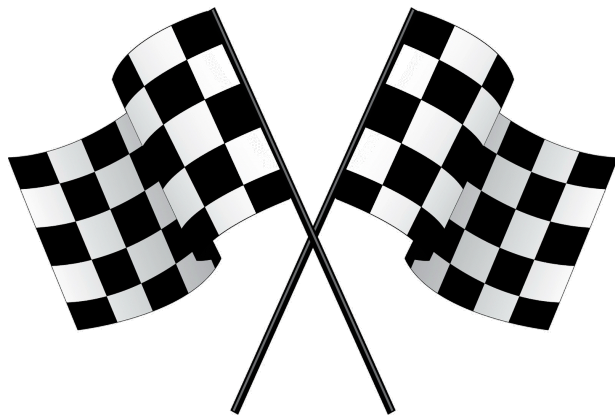
When: Thu Jan 19, 2022 06:30 PM GMT (Doors open at 6.15PM GMT)

Where: on-line and in-person at the Advanced Forming Research Centre, Inchinnan PA4 9LJ

To register for this meeting, please complete the form [here](#). Confirmation and details of how to access the meeting will be emailed to you.

FINANCIAL SUPPORT FOR FORMULA STUDENT TEAMS

Once again the Scottish Association for Metals has awarded some of Scotland's Formula Student teams a grant to support planned design changes to their vehicle that involve the innovative use of engineering materials technology.



HWRacing (Heriot Watt) was awarded a grant to support two major projects on materials engineering this year: a custom impact attenuator (IA) and a composite Tractive System Accumulator Container (TSAC).

Funding was also given to the University of Strathclyde Motorsport team (**USM**) towards the research and development of a composite accumulator case which is a key deliverable and research project in its development plan.

Finally, **UGRacing** (University of Glasgow) received a grant towards the manufacture and test of an epicyclic gearbox as part of the team's electric vehicle development.

BECOME A MEMBER OF THE SCOTTISH ASSOCIATION FOR METALS

Our meetings, visits and lectures have always been and will continue to be open to all those with an interest in engineering materials technology and are usually free of charge. However, only Members of SAM can vote at business meetings. Also Members may enjoy discounted delegate fees and preferential access to events where attendance may be restricted.

Because SAM is an affiliated local society of the Institute of Materials Minerals and Mining, members of IOM3 at any grade who are resident in Scotland can claim free Membership of SAM. Non-members of IOM3 and members of IOM3 not resident in Scotland can become a SAM Member by making a single payment of £30. Applications for Membership may be made by completing and returning the form found [here](#)

MEET YOUR COUNCIL: Dr Tatyana Konkova (Member of Council elected 2020)

What 3 words would describe your materials expertise?



Metallography: I have experience in translational research (i.e., cross collaboration between industry and academia) in the field of Materials Science and Engineering, Metallurgy. I have led research and knowledge exchange programmes focused on developing knowledge base on materials behaviour during forging, forming and metal processing.

Advanced materials: As a result of my international experience, I gained my expertise in advanced materials characterisation techniques, materials thermo-mechanical behaviours, electro pulse treatment, electrodeposition, and additive manufacturing.

Teaching: As a Lecturer, I am fully engaged in my teaching duties and proactive in improving the student learning experience. I will always strive to be the best educator that I can be.

Favourite (recent) materials moment: There is a strong link between material's microstructure, processing, properties and performance. Changes in one would affect the others. This interrelationship is the basics of Materials Science. Exploring and understanding of this link always fascinates me.

Tatyana Konkova, is a Lecturer in Materials and Manufacturing in the Department of Design, Manufacture and Engineering Management (DMEM) at the University of Strathclyde.

January 2023

The Scottish Association for Metals is affiliated to the Institute of Materials Minerals and Mining.

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