

**Proceedings of 2022
International Additive
Manufacturing Conference**

(IAM2022)

**October 19-20, 2022
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Conference Sponsor
Manufacturing
Engineering Division

THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS

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WELCOME TO IAM 2022

It gives us great pleasure to welcome everyone who has come from near and far, to this first international symposium on Additive Manufacturing (IAM 2022), jointly organized by ASME (American Society of Mechanical Engineers) and EWF (European Welding Federation) in this beautiful city of Lisbon. It is exciting to note that everyone will be meeting in person something which we have missed during the last couple of years.

The evolution of additive manufacturing technologies has changed the face of direct, digital technologies for the rapid production of models, prototypes, patterns and functional parts including repair and maintenance. Metal 3D Printing is poised to be the next industrial revolution in metals, plastics and ceramics, in enabling advancements in Defense, Aerospace, Power, Healthcare, Marine, Nuclear, Space, Oil & Gas, and various other sectors, defying the imagination of the designer.

We have had an overwhelming response to the call for abstracts. This is a positive start towards the effort to advance the additive manufacturing ecosystem, with experts from industry, academia, research labs, original equipment manufacturers, end users and budding researchers and students.

The symposium is scheduled over two days, October 19-20th with optional Industry Tours on the 21st. The conference covers four tracks, comprising, Polymers, Metals, Ceramics and Emerging Technologies. The contributory papers range from cutting edge research and developments in process optimization, new materials development, structure-property correlations, practical challenges in industrialization, design for additive manufacturing with participants from 16 different countries, to bring out a truly global insight into additive manufacturing.

Renowned global experts will be delivering a keynote lecture, addressing different aspects of how AM will enable sustainability. In addition, an exciting panel has been scheduled to address the wholistic role of standards, qualification and certification as enablers of accelerated qualifications in additive manufacturing.

We will have the opportunity to witness some state-of-the-art development in AM machines, consumables, characterization equipment, with an impressive list of generous sponsors covering a wide range of allied areas related to AM.

This conference has been made possible by a very passionate committee of over two dozen senior colleagues from academia and industry, who have volunteered their valuable time to ensure the roaring success of this first AM symposium.

We are sure that all of you will have a very enriching meeting in Lisbon.

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