SCIENTIFIC COMMITTEE

SCIENTIFIC ADVISORS: Jean-Yves HASCOET, Ecole Centrale Nantes, France
Aurélien ROBINEAU, Institut de Soudure Groupe, France

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- **CHAUVEAU Daniel**, Institut de Soudure Groupe, France
- **CHUA Chee Kai** , NTU, Singapore
- **DU TOIT Madeleine**, C-IX, IIW, University of Wollongong, Australia
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- **KATAYAMA Seiji**, University of Osaka, Japan
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- **POSCH Gerhard**, C-II, IIW, Fronius, Austria
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- **SCANDELLA Fabrice**, Institut de Soudure Groupe, France
- **WILLIAMS Stewart**, University of Cranfield, England
- **ZHONG Minlin**, Tsinghua University, China

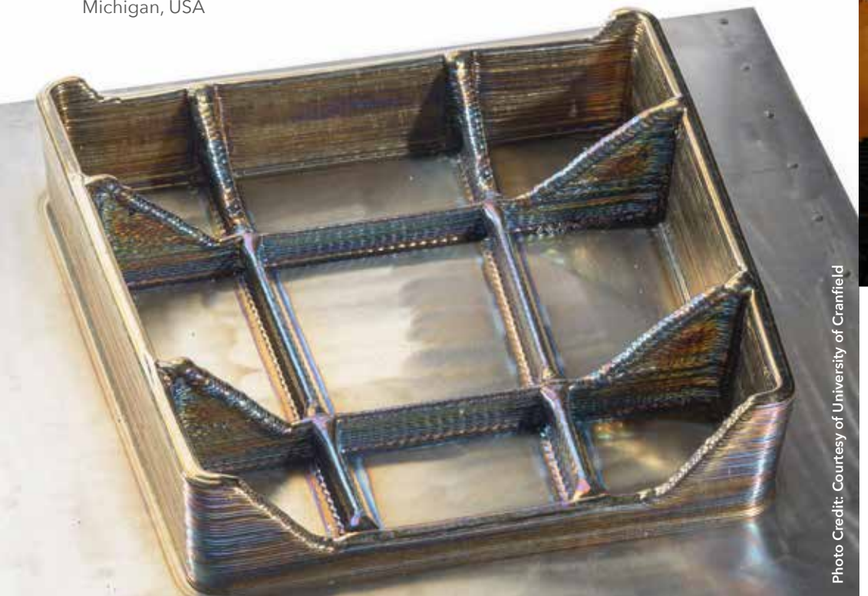

Photo Credit: Courtesy of University of Cranfield

CONFERENCE LOCATION

The conference will be organized in Metz (France) from 17 to 19 May 2017. Easily accessible by motorways, fast TGV trains and nearby airports with international connections, Metz is surrounded by Moselle vineyards, processing and manufacturing industries and a vast network of research labs and centres.

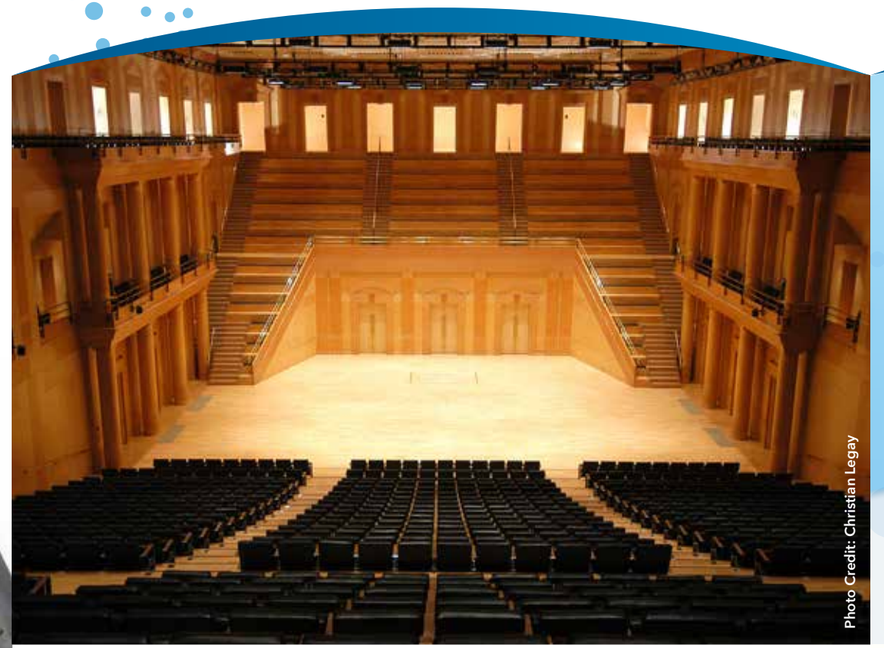

Photo Credit: Christian Legay

CONFERENCE SECRETARIAT

Institut de Soudure
ICWAM'2017
4 Boulevard Henri Becquerel, 57970 Yutz, FRANCE
E-Mail : secretariat@icwam.com
Website: www.icwam.com

October 2016 - graphito-communication.fr

ICWAM

International Congress on Welding, Additive Manufacturing and associated non-destructive testing

MAY 17, 18 & 19 - 2017
Metz, France

ORGANIZED BY:
Institut de Soudure & Ecole Centrale de Nantes

Photo Credit: Moselle Tourisme, photo Jean-Claude Kanny

CONFERENCE GOALS

Welding, surfacing and additive manufacturing mostly implement layer by layer deposition, using powders/wires/strips with similar heat sources (laser and electron beam, electric arc, etc.), have much more in common to share than their respective names seem to imply in the first instance. The scientific base that governs weld integrity is akin to what determines integrity of AM parts. The multifold objective of the conference is thus to:

Bring together welding technologists, metallurgists, NDT specialists on one side of the aisle and additive manufacturing researchers and users on the other side to share their experience for the advancement of science and technology in two very close fields.

Foster an international network of experts by bringing together actors from Industry, **R&D organizations to critically review where the two technologies stand at a time when new materials and hybrid processes are developed at a fast pace.**

Establish bridges between welding organizations and rapid prototyping/3D printing/ additive manufacturing associations.

Open unexplored venues for smart fabrication processes.

SCOPE & TOPICS

- **Flexible fabrication:** welding & joining, additive manufacturing, repair, NDT.
- **Processing:** feedstock material (including powder, wire, and strip), modeling and optimization, build parameters, repair parameters, post processing (e.g., heat treatment, densification, polishing).
- **Specimen design:** net-shaped parts; parts machined to shape based on scaling; as built laboratory test specimens; specimens machined from larger builds.
- **Developing constitutive relationships:** coupling microstructure measurements to thermal cycles, experimental stress analysis to characterize mechanical behaviour/materials properties targeting performance.
- **Developing feedback loop:**microstructure measurements feedback to fabrication; performance (mechanical behaviour, materials properties, and/or functional) feedback to fabrication.
- **Process monitoring and control:** manufacturing and in-situ structure defects, defects detection and characterization, emergent techniques and reliability of testing, POD in AM, long-term AM structural behaviour.

ORGANIZATION

The first international congress on Welding, Additive Manufacturing and Associated Non-destructive Testing (ICWAM'2017) includes plenary sessions and oral communications. The program is designed to allow intercommunication for the delegates and to promote an active dialogue between academic researchers and industrial delegates in order to bridge the gap between academia and pressing industrial needs.

Technical exhibition

The technical exhibition will run in parallel with **ICWAM'2017** in the halls of Arsenal (conference venue). The exhibitors will have the opportunity to present their products, services and technologies.

PAPER SUBMISSION

Authors wishing to present a contribution are kindly requested to submit an abstract in English (500 words max.) including title, author names, affiliation, and complete correspondence information for the lead author if any. Abstracts should also include four key words.

Word templates are available on the website of the conference. All submissions must be made online.

Website: www.icwam.com

Selected article will be published in either one of the following appropriate international journals:

- International Journal of Material Forming
- Welding in the World

Photo Credit: Institut de Soudure, Photo Antoine Meyssonnier.

REGISTRATION

Information about registration, transportation and hotel accommodations will be available on the website www.icwam.com.

The registration fee includes: admission to scientific sessions, abstract book, coffee breaks, two lunches and gala dinner.

	Before 15 February 2017	After 15 February 2017
Students	400 €	500 €
IS Members + University	600 €	700 €
Industry	700 €	800 €

IMPORTANT DATES

DEADLINE FOR ABSTRACT SUBMISSION:
15 November 2016

NOTIFICATION FOR ABSTRACT ACCEPTANCE:
15 December 2016

DEADLINE FOR REDUCED CONFERENCE FEE:
15 February 2017

DEADLINE FOR FULL PAPER SUBMISSION:
15 February 2017

Photo Credit: Poly-Shape

ORGANIZING COMMITTEE

- **CHEHAIBOU Abdelkrim,** Institut de Soudure Groupe, France
- **DUBAN Jean-Hugues,** Institut de Soudure Groupe, France
- **JOBAS Rosa,** Institut de Soudure Groupe, France
- **MANOHARAN Prabu,** Institut de Soudure Groupe, France
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- **ROBINEAU Aurélien,** Institut de Soudure Groupe, France
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- **RACINEUX Guillaume,** ECN, France
- **ROUSSEAU Michel,** AFS / SIS, France
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