

# NEWSLETTER 04

**H2020-WIDESPREAD-2018, Project No. 857124**

**June 2022**

## Main events

### **2<sup>nd</sup> Workshop on “Structural Integrity of Additively Manufactured Materials”**

Hotel Continental Brno, Czech Republic & On-line, 4<sup>th</sup> - 5<sup>th</sup> February 2022

⇒ **3 keynote lectures:**

**Fatigue of additively manufactured lattice materials: a design and manufacturing challenge,**  
**Dr. Matteo Benedetti** (Trento University, Italy)

**Trends in Additive Manufacturing for Medical Devices: Applications and Challenges**  
**Dr. Lorenza Petrini** (Politecnico di Milano, Italy)

**Additive Manufacturing in Aerospace Propulsion**  
**Prof. Toni Ivanov** (University of Belgrade, Serbia)

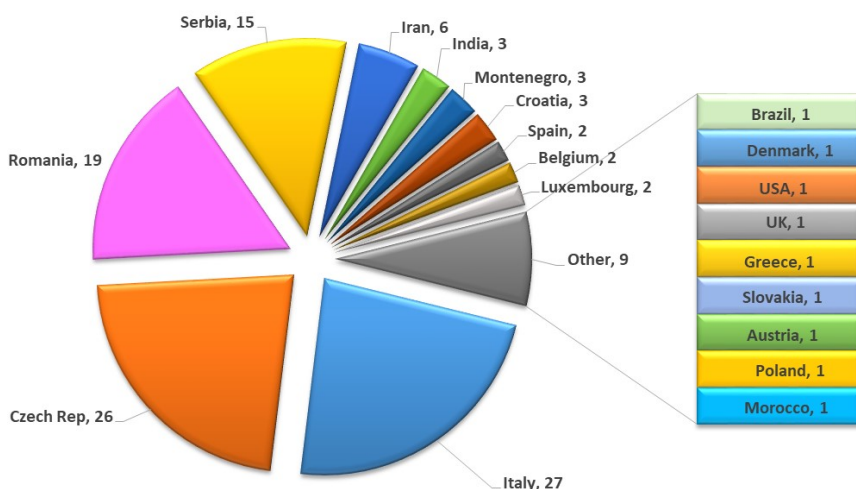
⇒ **5 sessions with 40 presentations:**

1. **Characterization of AM polymer-based materials**
2. **Fatigue and fracture of AM materials Simulation of AM processes**
3. **Characterization of AM metallic materials**
4. **Properties and models of AM materials and metamaterials**
5. **AM technologies: advancements & new experiences**

**117 participants from 20 countries:**



Hotel Continental Brno, 4 February 2022



**Selected papers will be submitted to a Special Issue of**  
**Journal of Mechanical Science and Technology (Springer)**  
(Springer journal, IF=1.713)



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## Main events

### **2<sup>nd</sup> Winter School, “Trends on Additive Manufacturing for Engineering Applications”**

IPM Brno, Czech Republic & On-line, 6<sup>th</sup> - 10<sup>th</sup> February 2022

⇒ **Program:**

	Feb. 6 Sunday		Feb. 7 Monday	Feb. 8 Tuesday	Feb. 9 Wednesday	Feb. 10 Thursday
		9.00 – 10.00	<b>1<sup>st</sup> lecture</b> (IPM & online) Prof. Liviu Marsavina <i>Presentation of the SIRAMM project</i>	<b>5<sup>th</sup> lecture</b> (online) Prof. Donato Firrao Prof. Filippo Berto Prof. Francesco Iacoviello <i>“Additive manufacturing in metals and defects: a challenging topic”</i>	<b>10<sup>th</sup> lecture</b> (online) Prof. Javad Razavi <i>“Fatigue life extension by crack repair”</i>	<b>12<sup>th</sup> lecture</b> (IPM & online) Prof. Roxana Ghita <i>“Gender (im)balance in science and engineering – a cross-cultural perspective”</i>
		10.00 – 11.00	<b>2<sup>nd</sup> lecture</b> (online) Prof. Snezana Kirin <i>“Statistical methods for evaluating the experimental data obtained by testing AMM”</i>	<b>6<sup>th</sup> lecture</b> (online) Dr. Marco Maurizi <i>“Data-driven approaches for modeling and design of additive manufactured architected materials”</i>	<b>11<sup>th</sup> lecture</b> (IPM & online) Dr. Jan Cizek <i>“Cold spray Additive Manufacturing”</i>	<b>13<sup>th</sup> lecture</b> (IPM & online) Prof. Marian Janek <i>“Additive manufacturing of bioactive personalised hard tissue replacements”</i> Prof. Lubos Baca, <i>“Opportunities and challenges in the fused deposition modeling of ceramics”</i>
		11.00 – 11.30	Break (IPM)	Break (IPM)	Break (IPM)	Break (IPM)
		11.30 – 12.30	<b>3<sup>rd</sup> lecture</b> (IPM & online) Dr. Jaroslav Kovacki <i>“Cross-properties in Cu-graphite composites and aluminium foams and their applicability to Additive Manufacturing of materials”</i>	<b>7<sup>th</sup> lecture</b> (online) Prof. Florian Arbeiter <i>“Mechanical properties of layered polymers produced via extrusion-based additive manufacturing”</i>	<b>Practical session 1</b> (IPM & online) <i>Advanced testing</i>	<b>Final exam</b> (IPM & online)
		12.30 – 14.30	Lunch	Lunch	Lunch	Lunch
14.30 – 16.30	Welcome reception & registration (IPM)	14.30 – 16.00	<b>4<sup>th</sup> lecture</b> (online) Dr. Francesco Puzello <i>“Additive Manufacturing from prototype to mass customization: a new industrial revolution. Challenges in AM production”</i>	<b>8<sup>th</sup> lecture</b> (online) Dr. S. Tavernini (*) <i>“The Marie Skłodowska-Curie Actions in Horizon Europe, with a special focus on postdoctoral fellowship”</i>	<b>Practical session 2</b> (IPM & online) <i>Brno Univ. of Tech. 3D printers for metals</i>	14.30 – 15.30 <b>Discussion session</b> (IPM & online) Research, future perspectives and international collaborations on AM in engineering
16.30 – 17.00	Opening of the winter School (IPM & online):	16.00 – 17.00	<b>Presentation of some participants’ backgrounds and current activities</b> (IPM & online)	<b>9<sup>th</sup> lecture</b> (online) Prof. Chao Gao <i>“Structural Integrity of Additive Manufactured Components – Introduction to AM of polymer component”</i>	(*)16.00 – 17.00 (IPM & online) Dr. S. Tavernini will be available to discuss and answer questions by the winter school attendee on research funding and related tips	15.30 – 16.00 <b>Closing of the winter School</b> (IPM & online)

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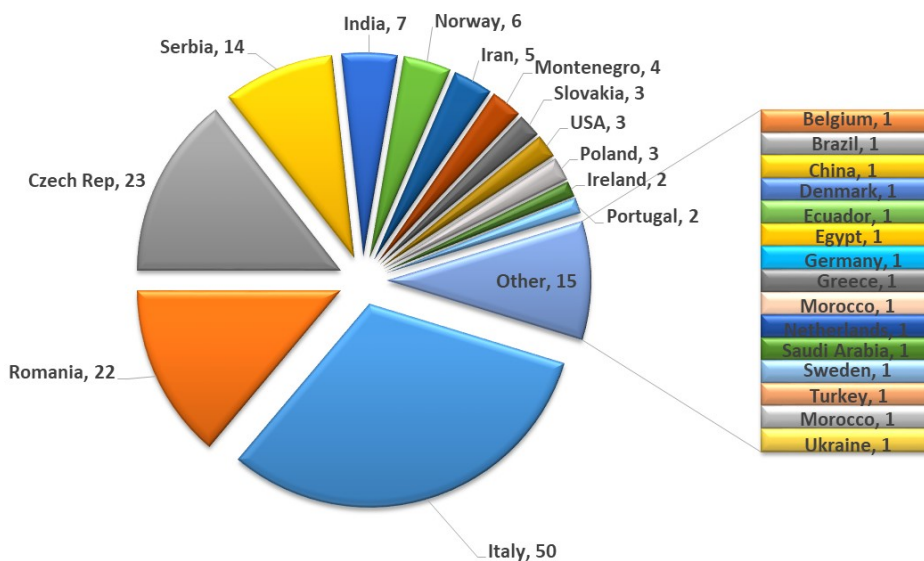
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## Main events

### **2<sup>nd</sup> Winter School, “Trends on Additive Manufacturing for Engineering Applications”**

IPM Brno, Czech Republic & On-line, 6<sup>th</sup> - 10<sup>th</sup> February 2022

- ⇒ **13 lectures**
- ⇒ **2 practical sessions  
@ IPM Brno & Brno University of Technology**
- ⇒ **2 discussions and participant participations**
- ⇒ **Participants: 159 participants from 28 countries**





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## Main events

### Organization of Mini Symposia at conferences

#### 9<sup>th</sup> “Advanced Materials and Structures”, Timisoara - Romania, 16<sup>th</sup>-18<sup>th</sup> June 2022

Presentation of SIRAMM project by the coordinator Prof. Liviu Marsavina and other 8 research papers.



#### 23<sup>rd</sup> “European Fracture”, Funchal - Portugal, 27<sup>th</sup> June - 1<sup>st</sup> July 2022

#### Conference on

Organized together with TC13: Education and Training committee of European Structural Integrity Society. Prof.

Liviu Marsavina the coordinator of the SIRAMM project presented the paper: **Early Stage Researchers training in the framework of SIRAMM project**




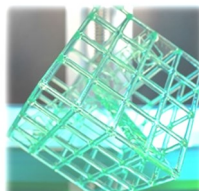
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## Forthcoming Events

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- ⇒ Final international conference on:  
**“Structural Integrity and Reliability of Advanced Materials obtained through Additive Manufacturing” - SIRAMM23**  
 Central Library, Polytechnic Univ. of Timisoara (UPT), Romania  
 Dates: 8<sup>th</sup> - 11<sup>th</sup> March 2023

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- ⇒ 3<sup>rd</sup> Winter School:  
**“Trends on Additive Manufacturing for Engineering Applications”**  
 Faculty of Mechanical Engineering, Univ. of Belgrade, Serbia  
 Dates: 5<sup>th</sup> - 10<sup>th</sup> February 2023

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- ⇒ **International Workshop** on Reliability and Design of Additively Manufactured Materials - RdAMM22  
**“Reliability and Design of Additively Manufactured Materials” - RdAMM22**  
 Faculty of Mechanical Engineering, Univ. of Belgrade, Serbia & Online  
 Dates: 4<sup>th</sup> - 6<sup>th</sup> October 2022

### Contact Us

Contact us for more information about our project

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Visit us on the web at:

**[www.sirammm.unipr.it](http://www.sirammm.unipr.it)**

**Participation in all Events is free!** However, a limited number of places is available and registration is required.

**More information about future events on:**

<http://www.sirammm.unipr.it/Events.htm>

<https://www.facebook.com/SIRAMM2020>

<https://twitter.com/SIRAMM1>