

$\frac{\text{MAM}}{2019}_{\text{Study Days}}$

ADDITIVE MANUFACTURING: THE PRODUCTS

27th - 29th November 2019, Florence

GE FLORENCE LEARNING CENTER Via de Perfetti Ricasoli, 78 - Florence, Italy

Organized by

Sponsored by







This year RINA organizes the fourth edition (2019) of its Master on Additive Manufacturing (MAM).

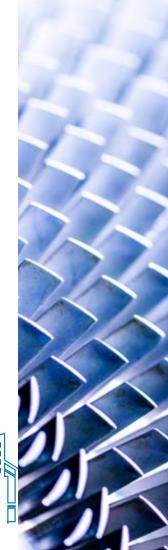
This edition 2019 is hosted by BHGE - Baker Hughes - General Electric in Florence on 27, 28 and 29 November.

The content is strongly oriented towards the "product" themes: top technical papers including experiences of industries in the automotive, aerospace, marine, power-gen and other main industrial sectors.

We include in the Master a deep discussion on new applications and the evaluation of some specific opportunities through dedicated sessions with our scientists and technology experts.

We take this opportunity to share with the participants RINA certification services and guidelines on Additive Manufacturing.

The visit to BHGE Plant, including AM laboratories, concludes the "three study days" offering a complete updating on AM technologies.





ADDRESSED TO

Managers, technical experts, researchers and students.

ORGANIZERS/SUPPORTERS

The course is organized by RINA. Sponsored by BHGE.

SCIENTIFIC COMMITTEE

Laura Alleva, *RINA*Cristiano Sciaboni, *RINA*Roberto Sorci, *RINA*Oriana Tassa, *RINA*

COURSE DIRECTOR

Dante Pocci, RINA

INTRODUCTION SPEAKERS

Paolo Noccioni, Chief Innovation Officer - BHGE Teodoro Valente, Vice Chancellor for Research, Innovation and Technology Transfer, Università di Roma La Sapienza Guido Chiappa, Executive Vice President Industry RINA

ORGANIZING COMMITTEE

Dante Pocci, *RINA* Stefano Lionetti, *RINA* Roberta Valle, *RINA*

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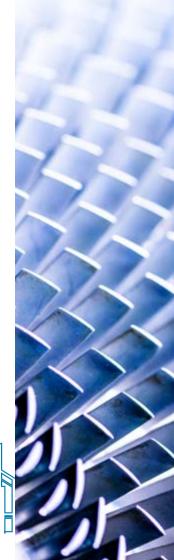
Info: mam-add@rina.org

NOTE

The official language is Italian. Simultaneous translation from Italian to English is provided.

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All slides are in English.





REGISTRATION FEE

Full fee

600,00 Euro (+VAT) Full fee including lunch, teaching material and social dinner.

Reduced fee

540,00 Euro (+VAT) Fee with discount including lunch, teaching material and social dinner). This fee is valid for registration by 15 October 2019, for members of OICE, AITA, AIAD and for multiple registrations.

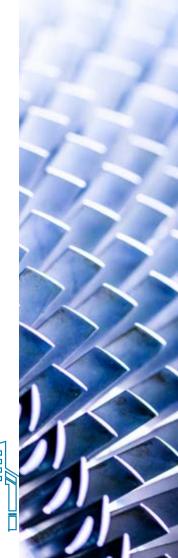
Student fee

300,00 Euro (+VAT) Student fee including lunch, teaching material and social dinner.

Travel, dinner and hotel accommodation are not included

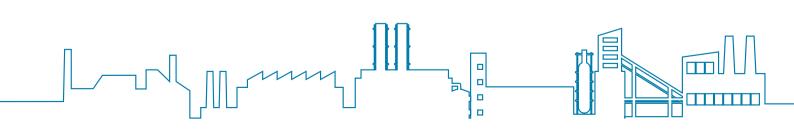
REGISTRATION

 $\underline{\text{Registration}} \text{ can be made online on the rina.org website or through the registration form which can be downloaded from the } \underline{\text{website}}$





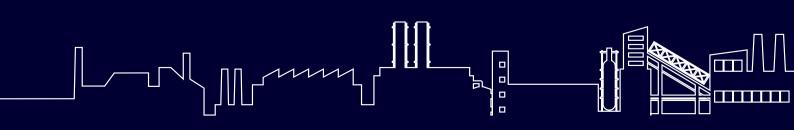






27th

NOVEMBER



INTRODUCTION

09,30 - 09,40	Welcome Paolo Noccioni, BHGE	14,30 - 15,00	Gas turbine components: the Siemens opportunities and challenges Vladimir Navrotsky, <i>Siemens</i>
09,40 - 09,50	Guido Chiappa, <i>RINA</i>	15.00 - 15.30	Coffee break
09,50 - 10,50	Keynote Lecture: AM as strategic KET in the digital transformation of the manufacturing industry Teodoro Valente, <i>Università di Roma La Sapienza</i>	13,00 - 13,30	Corree break
		15,30 - 16,30	Open discussion
10,50 - 11,20	Coffee break		

RINA WORKSHOP SESSIONS

TURBINE (AERONAUTIC, POWER GEN, OIL&GAS)

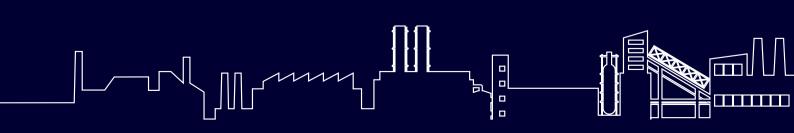
Chair: Oriana Tassa

11,20 - 12,00	State of the Art	16,30 - 17,30	CERTIFICATION
	Flaviana Calignano, Diego Manfredi Centro Interdiparimentale di Integrated Additive Manufacturing Politecnico di Torino		Guidelines for the certification of metallic products made by AM RINA Powder
12,00 - 12,30	Turbomachinery in Oil&Gas Sector: the AM experiences Massimiliano Cecconi, <i>BHGE</i>	17,30 - 18,30	SERVICES Roadmapping and Feasibilty studies
12,30 - 13,00	Laser Metal Deposition and Powder Bed Fusion in Ansaldo Energia Benedetto Gallo, <i>Ansaldo Energia</i>		Alloy DesignPrototypesTesting
13,00 - 14,00	Lunch	18,30	End oh the day
14,00 - 14,30	Gas Turbines engine and hot part turbine components: the RR experience Clive Stapleton, <i>Rolls Royce</i>	~ <u></u>	



28th

NOVEMBER



AUTOMOTIVE

Chair: Cristiano Sciaboni

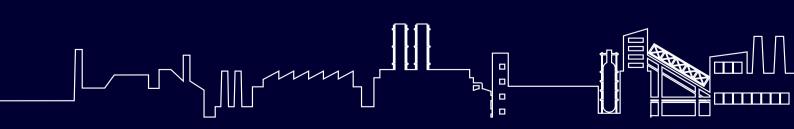
09,00 - 10,00	State of the Art	14,30 - 17,00	Visit to BHGE Plant including AM laboratories
10.00 10.00	Michele Lanzetta, <i>Università di Pisa</i>	17,00	End oh the day
10,00 - 10,30	AM: Experiences and challenges in FCA Group Roberta Sampieri, <i>FCA</i>	20,00	Social dinner
10,30 - 11,00	Coffee break		
11,00 - 11,30	The experiences in evolution: how AM can support the Ferrari challenges Aurelio Occhinegro, Ferrari Gestione Sportiva		
11,30 - 12,00	The opportunities and the future challenges of the AM technologies Leonardo Lombatti, <i>Dallara</i>		
12,00 - 12,30	Research and development on alloy design for additive manufacturing Eric Jagle, <i>Max Planck Institut</i> e		
12,30 - 13,00	Open discussion		
13,00 - 14,00	Lunch		





29th

NOVEMBER



AEROSPACE & DEFENCE

Chair: Laura Alleva

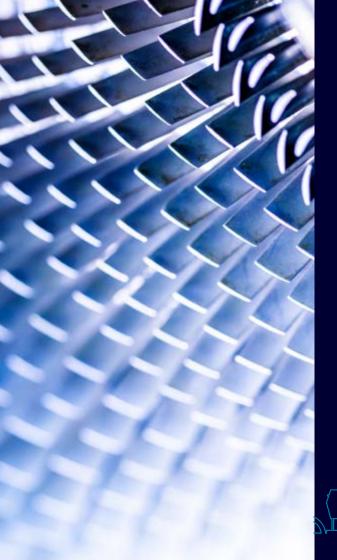
09,00 - 10,00	State of the Art Barbara Previtali, <i>Politecnico di Milano</i>
10,00 - 10,30	The strategic role of the Additive Manufacturing in Leonardo Company Marco Vitucci, <i>Leonardo</i>
10,30 - 11,00	Coffee break
11,00 - 11,30	AM: Case studies and new opportunities in MBDA Company Pasquale Corrado, <i>MBDA</i>
11,30 - 12,00	AM: Experiences and challenges in Avio Group Daniele Liuzzi, Daniele Drigo, <i>Avio</i>
12,00 - 12,30	AM: Experiences and challenges in Thales Alenia Space Francesco Lumaca, <i>Thales Alenia Space</i>
12,30 - 13,00	Open discussion
13,00 - 14,00	Lunch

MARINE

Chair: Roberto Sorci

14,00 - 15,00	State of the Art Stefano Lionetti, <i>RINA</i>
15,00 - 15,30	Manufacturing needs for marine components using 3D printing technologies Rocco Cavaliere, <i>Fincantieri</i> Piero Travi, <i>Detra</i>
15,30 - 16,00	The effective use of AM components for Marina Militare needs Capitano di Fregata Raffaele Vita, <i>Marina Militare</i>
16,00 - 16,30	Coffee break
16,30 - 17,00	AM Case Studies in Marine context Paolo Licinio Nazzaro, <i>Superfici</i>
17,00 - 17,30	Open discussion
17,30	End oh the day





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