

# Dr. Antonio Rinaldi

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## **EDUCATION**

2004	Ph.D. Mechanical Engineering, Arizona State University, Tempe, AZ, USA
2004	Graduate Certificate Applied Statistics And Six Sigma, Arizona State University, Tempe, AZ, USA
2002	M.S. Mechanical Engineering, Arizona State University, Tempe, AZ, USA
2000	LAUREA summa cum laude (5 years) Mechanical Eng., University "La Sapienza", Rome, Italy

## **CAREER**

Since 2014	<b>R&amp;D</b> Director Nanofaber srl, CR Casaccia, Rome, Italy
Since 2010	Scientist in Materials, Department of Sustainability, ENEA, CR Casaccia, Rome, Italy
2012-2014	Research Professor, Director of LAMSI Lab (http://memocs.univaq.it/), Univ. L'Aquila, Italy
2007-2011	Adjunct Professor, Univ. Tor Vegata, Rome, Italy
2007-2010	Researcher, ISPESL (Italian Insitute for safety and occupational health), Rome, Italy
2005-2006	Research Professor, Mech & Aeros. Eng. Dept, Arizona State University, Tempe, AZ, USA

## **TEACHING**

2007-2011	In charge of "Materials technology and chemical science" (undergraduate and graduate)
	course, Faculty of Engineering, University of Tor Vergata, Rome, Italy
July 2008	Invited Lecturer at short course "Damage Mechanics and Micromechanics of Localized
	Fracture Phenomena in Inelastic Solids", CISM, Udine, Italy
2002-2004	Teaching Assistant, senior undergraduate eng. courses, Arizona State University, USA

**Supervision of students.** Co-supervised of 6 PhD students, 5 Master/Bachelor students.

## **PROJECTS & COORDINATION ACTIVITIES**

TROJECTO & COORDINATION ACTIVITIES			
RESEARCH PROJECTS:			
2017-2020	Coordinator of HORIZON2020-NMBP17 "NEXTOWER" (6M€ contribution EC)		
2016-2019	ENEA Responsible for HORIZON2020-FETOPEN "ICARUS" (350k€ contribution EC to ENEA)		
2015-2018	ENEA Responsible for HORIZON2020-TWINNING "SUPERMAT" (128k€ to ENEA)		
2010-2014	Recipient of the Italian Young Investigation Award 2010 (FIRB) "Ultra High Efficiency ZnO		
	Nanogenerators" (260k€ grant by Ministry of Research and Education)		
2012-2014	Co-leader and coordinator of POR-FESR EU CO-RESEARCH project "SIRE" (350k€)		
2013-2014	Scientific Coordination of POR-FESR EU SPIN-OFF project "NANOFABER" (63k€)		
EDITORIAL PROJECTS:			
2012-2014	Section Editor, "Handbook of Damage Mechanics", Ed. Voyadjis G., Springer NY		
2009	Guest editor, Int. J. Damage Mech. (Vol. 18, 2009) special issue dedicated to D Krajcinovic.		
2007	Guest editor, Int. J. Plasticity (Vol. 23, 2007), special issue dedicated to D Krajcinovic.		

OTHER:

2017 – ongoing	Cost Action CA15102 (extreme critical raw materials) management board substitute
2015-2016	EERA-JPNM subprogram coordinator
since 2014	Member elect of board of advisors of PROCOMP consortium (participated by ENEA)
since 2009	ASSOINGE, Association of Italian Engineers Abroad, co-founder

### **RESEARCH**

**INTERESTS.** Main research topics relevant to SP3 include: multiscale modelling, damage and fracture mechanics, creep (detection, modeling, and design), structural analysis and engineering, nuclear materials technology, experimental characterization of materials and processes, nanotechnology (e.g. nanomechanics, nanobiotechnology, nanometrology, micromachining and microfabrication techniques), microscopy (optical, SEM, AFM, SPM, FIB).

**PUBLICATIONS.** Co-authored more than 80 contributions (mostly as corresponding author) in "peer-reviewed" journals, "conference proceedings", and books in several scientific areas, such as damage mechanics, nanomechanics, nanobiotechnology, renewable energy, microscopy.

• MAT, IJF, etc.