

CURRICULUM VITAE LAURA ELEONORA DEPERO

Laura Eleonora Depero was assistant professor from 1990 to 2000 and from 2001 is full professor of Fundamental Chemistry for Technologies at the Faculty of Engineering of the University of Brescia. She is the Head of Chemistry for Technologies Laboratory (www.chem4tech.it). The primary aim of Chem4Tech is to enhance the understanding of properties and behaviour of materials. In particular, the activities are focused to develop and to optimize experimental techniques, methods, and protocols for studying new materials/devices. Researches cover a very wide variety of materials (metal, ceramic, glass, semiconductor, polymers, and bio-organic materials) and they are carried out in collaboration with several national and international researchers belonging to government as well as private research laboratories.

She is the delegate for the Interuniversity Consortium of Science and Technology of Materials (INSTM) for the UNI Commission for Nanotechnology standardisation and expert for the Commissions ISO TC229 e CEN/BTWG 166 'Nanotechnology' and ISO TC201 "Surface Chemical Analysis"

She is co-author of more than 270 scientific papers and referee of International journals and projects of science and technology of materials and author of the three book chapters, namely "Advances in laboratory XRD2 microdiffraction experiments" (in "Research Advances in Chemistry of Materials" R.M. Mohan (Ed.) Global Research Network, 2003), "Order in space: packing of atoms and molecules" (in "Advances in Molecular Structure Research", volume 1, pp 303-337) and "Atomic volumes in inorganic chemistry" (in Advance in Molecular Structure, volume 6, pp 371-399).

She is co-inventor of six national patents, and two PCTs.

She is referee for National and International agencies as MIUR, ANVUR, Regione Piemonte, the National Center of Science and Technology Evaluation of the Republic of Kazakhstan, the "Grant Agency of the Academy of Sciences of the Czech Republic", TWAS, VIGONI Program (Italy-Germany), Galileo Program (Italy -France).

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<https://scholar.google.it/citations?user=gcpguKMAAAAJ&hl=it>
https://www.researchgate.net/profile/Laura_E_Depero

Scopus Author ID 7006791911

Documents:283

Citations: 4218 total citations by 3479 documents

h-index:33

2017 – Chair of the Organizing committee of TXRF 2017 conference that will be held in Brescia in September 2017

2016-2018 Member of the Italian Abilitazione Scientifica Nazionale (ASN; National Scientific Qualification), - Area 03/B2

2016-2018 Coordinator of the PhD Course "Mechanical and Industrial Engineering" of Brescia Univesit.

2016-2019 Delegate for the University of Brescia in the Board if INSTM Consortium

2016 - Referent for the Chemistry for Technologies lab in METROFOOD infrastructure (<http://www.metrofood.eu/>)

2015 - Member of the Scientific Committee of "FABBRICA FUTURO"

<http://www.fabbricafuturo.it/index.php/comitato/>

2015 Director of the Summer School "Atomic Layer Deposition: Method and Applications", Brescia 6-10 July

2014 – 2017 Member of COST Action MP1402 – HERALD Hooking together European research in Atomic Layer Deposition (<http://www.european-ald.net/>)

2014 – Cofounder of SMART Solutions S.r.L., a start-up and spin-off company of University of Brescia (www.smartsolutionsweb.it/)

2013 – JSPS Invitation Fellowship for Research in Japan (2 months hosted by prof. Tsuji of the Osaka University)

2013 – Chair of the Parallel session TXRF Standardization at the TXRF2013 Conference in Osaka

2013- Member of the Academic Board of the PhD Course in "Ingegneria Meccanica e Industriale" (<http://drimi.unibs.it/>)

2013-2015 Member of the Steering Committee of COSMOS-RICE LIFE2011 Project

2012-2015, Director of the PhD School of "Engineering Science" of Brescia University

2011 – Organization of the ISO/TC201 20th Plenary and SC Meetings in Brescia, September 15-17

2011 President of VAMAS ITALIA Association

2010 - Convenor of WG3 "TXRF and XRR" of ISO/TC201 "Surface Chemical Analysis" Committee

2010-2012 Member of the Steering Committee of COSMOS LIFE2008 Project

2009 Cofounder of VAMAS ITALIA Association

2008-2012, Coordinator of PhD Course in Materials for Engineering of Brescia University

2006- Italian representative in VAMAS (The Versailles Project on Advanced Materials and Standards, <http://www.vamas.org/contacts/representatives.html#italy>). VAMAS is an international organization devoted to the development of pre-normative research to facilitate the trade and commercialization of new materials and products.

2005 Chief of the Italian Delegation at the First Meeting of the ISO/TC 229 "Nanotechnology" held in London.

2002 Vice-chair of the EURESCO Conference "HIGH PERFORMANCE FIBERS : EuroConference on Self-Assembling Fibrous Materials", Bad Herrenalb, Germany, 2002;

1998-2001 Member of the Technological Transfer Group of the National Institute for the Physics of Matter and responsible for the Spin-off Impresa program.

1995-1999 European project leader for the CEN normative: "Test method for residual stress analysis by X-ray diffraction".

1989-1990 Fellowship at the Mechanical Department of the University of Brescia

1987-1988 "Visiting scientist" at the IBM Research Centre of Almaden in California.

1984-1987 Responsabile for the "Failure Analysis" Lab of GTE Telecomunicazioni S.p.A. (1984-1987).

1984 Degree in Solid State Physics (full marks) at the University of Milan.

Projects

2016-2018 Coordinator of "Slag New Life" project - INSTM -Regione Lombardia 3° Accordo di Collaborazione.

2015 – Representative of UNIBS in METROFOOD - Infrastructure for promoting Metrology.

2014-2017 Participant of LIFE MED Project (Medical Equipment Discarded – A new integrate system to reduce waste by medical equipment and medical WEEE) <http://www.life-med-equipment.eu/sito/project>

2014-2017 Responsible of UNIBS Unit of FP7 Project ISTRESS "Pre-standardisation of incremental FIB micro-milling for intrinsic stress evaluation at the sub-micron scale"

<http://www.stm.uniroma3.it/iSTRESS/Pages/iSTRESS%20Home%20page.aspx>
2014 -2015 Participant to the project “ A BRESCIA SI PARLA DI SCIENZA E TECNOLOGIA” ex legge 6/2000 DD 369 to promote public understanding of science.
2013-2015 Participant to the Lombardy Regional project TECNOENERGY devoted to the assessment of BATs and the evaluation of their environmental impacts in foundry.
2013-2015 Coordinator of MALDIT project – INSTM –Regione Lombardia 2° Accprdp di Collaborazione
2013-2015 – Coordinator of the project “ Assessment of new protocols for the TXRF elemental analysis of environmental and biological samples” founded in the frame of “ACCORDO-QUADRO MI.S.E.-ICE-CRUI”.
2012 - Coordinator of the VAMAS Project “Surface chemical analysis — Interlaboratory comparison of total-reflection Xray fluorescence (TXRF) spectroscopy for environmental analysis”. The project involves 20 laboratory belonging to 15 Nations.
2009-2010 Responsible of UNIBS Unit of the Regional Project ATP 2008 devoted to the development of new PVD coatings for plastic materials.
2008-2011 Coordinator of an European project for SME (NASPE)
http://cordis.europa.eu/result/rcn/58172_en.html
2008-2011 Responsible for INSTM of CO-NANOMET (FP7 NMP Co-ordination in Nanometrology, http://cordis.europa.eu/result/rcn/54641_it.html)
2009-2011 Responsible of UNIBS Unit of PRIN 2008 project “Study of biomolecular interactions between angiogenetic factors and their receptors by nanomechanical microcantilevers”.
2006-2009 Coordinator of CARIPLLO FOUNDATION project “ Development of self assembling techniques and soft lithography”.
2006-2008 Responsible of UNIBS Unit of PRIN 2005 project “ Coated microcantilever for the molecular recognition”
2006-2007 Responsible of the UNIBS Unit of Lombardy Regional project “Messa a punto di nuovi materiali per elettropiloti pneumatici miniaturizzati”
2004-2006 Responsible of UNIBS Unit of PRIN2003 project “ Synthesis and structural, chemical, nanomechanical characterization of magnetic multilayers and nanostructures obtained by lithography”.
2003-2007 Responsible of UNIBS Unit of FIRB2001 project "Nano- e micro-spectroscopies by means of synchrotron radiation integrated with STM/AFM advanced system for the study of artificial functional materials”
2002-2005 - Responsible of the UNIBS Unit of FISR2001 project, "Silicon Carbide on Silicon for micro-electro-mechanical devices operating in hostile environment”.
2001-2003 Responsible of UNIBS Unit of PRIN 2000 project, "Microstructure and interfaces of magnetic thin layers”.
2000-2002 Responsible of UNIBS Unit of the project “Surface, Thin layers and Molecular Materials “ in the frame of “Progetto Finalizzato Materiali Speciali per Tecnologie Avanzate II” of CNR
1999-2001 Responsible of UNIBS Unit of PRIN 1998 project "Structural and microstructural studies of metallic and semiconductor thin layers”