

PERSONAL INFORMATION

Michele Guida



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🔗 <https://docenti.unisa.it/001295/home> (institutional)

ACTUAL ACADEMIC POSITION

From February 2020 to today

Associate Professor in Applied Physics
DIEM-University of Salerno (UNISA), Italy

From February 2021 to today

Guest Associate Professor
Riga Technical University (RTU), Riga, Latvia

ACTUAL RESPONSIBILITIES

SCIENTIFIC

- Director of the International Center for Studies and Research on "Naturally Occurring Radioactivity and Hazards (NORAH)", between the University of Salerno, Italy, the University of Novi Sad, Serbia and the Ibn Tofail University at Kenitra, Morocco.
- From 2019 to today: Responsible of the FARB Scientific Project and the related University Grants: " APPLIED PHYSICS: Radiations and hazards due to exposure".
- From 2018 to today: Responsible of the FARB Scientific Project and the related University Grants: "PHYSICAL APPLICATIONS TO COMPLEX SYSTEMS".
- From June 2017 to today Scientific Responsible, on behalf of UNISA, for the Project: "project to reduce the social cost caused by bacterial infections post-surgery" (acronym BIPS)
- From 2013 to today Scientific Responsible of the Laboratory for Environmental Radioactivity "Ambients and Radiations" (acronym Amb.Ra.), certified ISO9001:2015.
- From 2007 to today Scientific Responsible of the Interdepartment Applied Research Programme "RAD_CAMPANIA" aimed at the assessment of the impact produced by gas Radon on Natural and Anthropogenic Environments and its risks for human health.

**INSTITUTIONAL
and MANAGERIAL**

Member of the experts working Group established by the Regional Government of Campania (DD 29, Feb 03 2021) about the technical writings of the guidelines about radon monitoring and health protection of population and workers, following the National Legislative Decree 101, 2020

Member of the Didactic Commission of the Bachelor Program in Information Engineering.

Member of the Department Board of DIEM.

Member of the Project Commission of DIEM.

Member of the member of the Organizing Committee of the Enrollment Tests for the Bachelor Program in Information Engineering

UNISA representative at the Technical Committee on the implementation of the guidelines to reduce the radon impact on the territory, according to the Euratom Directive 2013/59, established by the Regional Government of Campania Region.

UNISA representative of the Bilateral Scientific Cooperation and ERASMUS EXCHANGE Programme Agreements with Riga Technical University (RTU), Riga, Latvia.

UNISA representative of the Bilateral Scientific Cooperation and ERASMUS EXCHANGE Programme Agreements with the University of Novi Sad, Serbia.

UNISA representative of the Bilateral Scientific Cooperation and ERASMUS EXCHANGE Programme Agreements with the University of Kragujevac, Serbia.

UNISA representative of the ERASMUS EXCHANGE Programme Agreement with the Izmir Katip Çelebi University, Izmir, Turkey.

UNISA representative of the Bilateral Scientific Cooperation Programme Agreement with the Ibn Tofail University at Kenitra, Morocco.

PAST ACADEMIC EXPERIENCE

- From Jan. 2004 to Jan. 2020 Associate Professor in Experimental Physics
Faculty of Engineering, University of Salerno, Italy
- From Nov. 1990 to Dec. 2003 Assistant Professor in Experimental Physics
Faculty of Engineering, University of Salerno, Italy
- From Nov 1988 to Oct 1989 Post-Doctoral Fellow for the International Project Southern Italy Neutrino and Gamma Astronomy (acronym SINGAO)

- From May 1988 to Aug 1988

Department of Physics, University of Salerno, Italy

Della Riccia Fellow

Instituut voor Teoretische Fysica, University of Amsterdam, The Netherlands
- From Mar. 1985 to May 1986

Exchange Graduate Student and Della Riccia Fellow

Department of Physics, University of Alberta, Edmonton, Canada.
- From Nov. 1983 to Oct. 1986

PhD Student in Physics

Department of Physics, University of Salerno, Italy

PAST SCIENTIFIC RESPONSIBILITIES

- 2015 -2017

Scientific Responsible and Coordinator of the working group from UNISA in the framework of the COST Action "NORM4Buidling" TU1301.
- 2010-2015

Responsible of the FARB Scientific Project and the related University Grants: "ASSESSMENT OF THE IMPACT OF NATURALLY OCCURRING RADIOACTIVE MATERIALS (NORM) AND TECHNOLOGICALLY ENHANCED NATURALLY OCCURRING RADIOACTIVE MATERIALS (TENORM) ON ANTHROPIC AND NATURAL ENVIRONMENTS

WORKING EXPERIENCES WITH INTERNATIONAL COLLABORATIONS

- 2012 – 2014

TWICE (Techniques for Wide-range Instrumentation for Calorimetry Experiments) AND T1015 EXPERIMENTS AT FERMILAB LABORATORIES, USA
- 1999- 2008

ALICE EXPERIMENT INTERNATIONAL COLLABORATION AT LHC COLLIDER, CERN LABORATORIES, GENEVA, SWITZERLAND.
- 1999 – 2006

L3 EXPERIMENT INTERNATIONAL COLLABORATION AT LEP COLLIDER, CERN LABORATORIES, GENEVA, SWITZERLAND.
- 1994 – 1999

WA97 and NA57 FIXED TARGET EXPERIMENT INTERNATIONAL COLLABORATIONS AT CERN LABORATORIES, GENEVA, SWITZERLAND.
- 1990 – 1994

ZEUS EXPERIMENT INTERNATIONAL COLLABORATION AT HERA ACCELERATOR, DESY LABORATORIES, HAMBURG, GERMANY
- 1988- 1990

SOUTHERN ITALY NEUTRINO and GAMMA ASTRONOMY (SINGAO) INTERNATIONAL COLLABORATION

RESPONSIBILITIES IN INTERNATIONAL SCIENTIFIC AND EDUCATIONAL EVENTS

- Sept 2020

Chair in the 1ST INTERNATIONAL ONLINE SYMPOSIUM ON "SUSTAINABLE CONSTRUCTION"
- 2019

Co-Director of the International summer school "Sustainable Construction – from theory to practice" at the Riga Technical University, Riga, Latvia.
- 2018

Co-Director of the International summer school "Sustainable Construction – from theory to practice" at the Riga Technical University, Riga, Latvia.
- 2015

Scientific Director of the International RAdon and NOrm Workshop (IRANOW) at the University of Salerno, Italy.
- 2014

Convenor of the Special Session on Radon and Norm at the 7th International Conference on Environmental and Geological Science and Engineering (EG '14), organized by WSEAS at Salerno, Italy, June 3-5, 2014

PAST LECTURING EXPERIENCES ABROAD

- From Feb. 2021 to today Lectures on: "Radon Assessment and management for civil engineers", at distance for Riga Technical University (RTU), Riga, Latvia.
- Sept. 2017 Lectures on: "Assessment of the impact of Radon in built environments", Riga Technical University (RTU), Riga, Latvia, in the framework of the ERASMUS+ for international mobility with RTU.
- March 2015 Lectures on: "Assessment of the impact of Radon in built environments" and "Assessment of Radon as a Naturally Occurring Tracer in Natural Water bodies", Riga Technical University (RTU), Riga, Latvia, in the framework of the ERASMUS+ for international mobility with RTU.
- May 2012 Lectures on: "Assessment of the impact of Radon in built environments", Riga Technical University (RTU), Riga, Latvia, in the framework of the ERASMUS+ for international mobility with RTU.
- August 2011 Invited Lecture at the International Summer School "Achievements and Applications of Contemporary Informatics, Mathematics and Physics (AACIMP)", Kyiv, Ukraine.
- May 2011 Invited Lecture: "Assessment of the impact of Natural Occurring Radioactivity (NOR) on natural and anthropic environments evaluated with a multi scalar hierarchical adaptive interdisciplinary approach for the investigation of Natural Hazards. Case study: Radon like a Naturally Occurring Radioactive Tracer (NORT) in the Atmosphere, Hydrosphere and Lithosphere" at the XIV International Academic Conference of Students, Postgraduates and Young Scientists "Ecology . Human . Society", Kyiv , Ukraine.
- February 2006 Lectio Magistralis:"RADIATIVIDAD AMBIENTAL y RADON", Universidad Nacional del Altiplano, Puno, Perú in the framework of the Convenio Internacional de Cooperacion: Universidad Nacional del Altiplano, Puno, Perú – University of Salerno.

EDUCATION

- From Nov. 1983 to Oct. 1986 **PhD in Physics**
Department of Physics, University of Salerno, Italy
- From Nov. 1975 to Oct. 1981 **M. Sc. in Physics**
Department of Physics, University of Salerno, Italy
- From Oct. 1970 to June 1975 **High School – Scientific Lyceum**
Lyceum G. Da Procida, Salerno, Italy

**ACADEMIC TITLES
and DEGREES**

- Associate Professor, since 2004, Faculty of Engineering, University of Salerno, Italy
- Assistant Professor, from 1990 to 2003, Faculty of Engineering, University of Salerno, Italy
- Doctor in Physics, 1987, Italian Ministry of University and Research (MIUR).
- M.Sc. in Physics, (magna cum laude), 1982, University of Salerno, Italy

INTERNATIONAL PROJECTS

- 2020 **Scientific Responsible and Coordinator of the University of Salerno Unit for the Project**
"Original nanostructured modification of reduplication process and electrostatic surface energy of monodisperse nano virus, by unique fluid nano particles preparation. Acronym Nanovirus-discharge", International Scientific Research project with the University of Kragujevac, Serbia, University of Niš, Serbia, Lahore College For Women University, Lahore, Pakistan.
- 2018 **Scientific Responsible and Coordinator of the University of Salerno Unit for the Project**
Network of european Excellences for the study of Radon in ITAly and Serbia (N.E.R.ITA.S.)" bilateral mobility project Italy-Serbia, Secure, Clean and Efficient Energy - Environmental Development and Protection, by the Italian Ministry of Foreign Affairs. Scientific Responsible and Coordinator of the working group from UNISA in the bilateral mobility agreement with University of Novi Sad.
- 2018 **Principal Investigator (P.I.)**
Research Agreement proposal: "Application of an innovative interdisciplinary approach of biological dosimetry to health protection through the investigation of in-vitro blood and cell samples irradiated with low-dose high LET alpha radiation from environmental Radon (acronym IRBIS (Ionizing Radiation exposure of Blood In-vitro Samples)", in the framework of the Coordinated Research Project (CRP): Applications of Biological Dosimetry Methods in Radiation Oncology, Nuclear Medicine, and Diagnostic and Interventional Radiology (MEDBIODOSE) of the International Atomic Energy Agency (IAEA), Wien, Austria.
- 2014 **Scientific Responsible and Coordinator of the University of Salerno Unit for the Project**
ECEUM, "Enhancing entrepreneurial culture through UBC and comprehensive business incubation in EU and Morocco." EU CALL FOR PROPOSALS 2013 — EAC/S11/13, Erasmus + programme (2013/C362/04), Key Action 2 (KA2) — Cooperation for innovation and the exchange of good practices, Sub-Action: Strategic partnerships in the field of education, training and youth. The Project proposal had been submitted together the Riga Technical University (RTU), Riga, Latvia.
- 2012 **Scientific Responsible and Coordinator of the University of Salerno Unit for the Project**
"Interregional Cooperation for Valorization of Lifelong Learning Programme" proposal 530564TEMPUS-1-2012-1-LV-TEMPUS-JPHES. EU Tempus IV, 5th Call for Proposals, EACEA/25/2011. The Project proposal had been submitted together the Riga Technical University (RTU), Riga, Latvia.
- 2010 **Scientific Responsible and Coordinator of the University of Salerno Unit for the Project**
"Investigation of Groundwater / Surface Water Interaction Processes by Application of Environmental Tracers (ENVITRACE)" EU Marie Curie Initial Training Networks (ITN) . Call: FP7-PEOPLE-2010-ITN.
- 2008 **Principal Investigator (P.I.) for the Project:**
"Realization of a Continuous Radon Monitoring Network in Peru for the investigation and prevention of Natural Risks related to Earthquakes and Volcanic Eruptions. Status: Submitted to Italian Latin American Institute and Italian Cooperation (IILA). in collaboration with the Universidad Nacional del Altipiano, Puno, Peru.
- 2008 **Principal Investigator (P.I.) for the Project:**
SGDCILERAD. submarine groundwater discharge assessment on the interregional coastal areas of cilento, southern italy, with measurements of natural isotopic tracers like 222-radon. eu 2007 Marie Curie Incoming Fellowship VII Frame Programme.
- 2008 **Principal Investigator (P.I.) for the Project:**
Realization of a Continuous Radon Monitoring Network in El Salvador for the investigation and prevention of Natural Risks related to Earthquakes and Volcanic Eruptions. Status: submitted to Italian Latin American Institute and Italian Cooperation (IILA). in collaboration with the Universidad Nacional de El Salvador, San Salvador, El Salvador.

2008 Principal Investigator (P.I.) for the Project:

“Investigation of the Submarine Groundwater Discharges (SGD) along the Italian and Spanish coastline in the Mediterranean Sea, by means of measurements of Radium and Radon isotopes, like natural tracers”. Status: submitted to Italian Ministry of External Affairs (MAE) and Italian Ministry of Education and University (MIUR). CALL: 2008 Bilateral Actions Italy – Spain. in collaboration with the Research Group of Environmental Radioactivity Laboratory, Universidad Autonoma de Barcellona (UAB), Spain.

2007

Principal Investigator (P.I.) for the Project:

NATURAL RADIOACTIVITY AND DWELLINGS IN THE MEDITERRANEAN REGION: EXPERIMENTAL MEASUREMENT TECHNIQUES AND THEORETICAL MODELLINGS: CORRELATION WITH GEOLOGY AND TRADITIONAL BUILDING CONSTRUCTION TECHNIQUES. Status: submitted to INFN and Spanish Ministry of Education and University (MEC), Spain. CALL: 2007 International Affairs Funds INFN – MEC (SPAIN): in collaboration with the Research Group, Radiation Physics Group, from the Universidad Autonoma de Barcelona, (UAB), Spain.

THIRD MISSION ACTIVITIES

TECHNOLOGY TRANSFER AND PUBLIC ENGAGEMENT:

In the framework of the applied research activities done in the Laboratory for Environmental Radioactivity “Ambients and Radiations - Amb.Ra.”, also Third Mission activities have been carried on by M. Guida and S. Mancini. Particularly, we have been engaged in Public Engagement with Associations of Professionals, School and Municipalities and in the following projects of Technology Transfer, coordinated by S. Mancini, aimed at the development of innovative ideas concerning the environmental issues and the public health protection:

- 1) creation and promotion of a Quality Brand for the materials used in the construction industry, for the protection of the public human health regarding the exposure to natural radioactivity, especially to Radon;
- 2) development of an innovative technology for the monitoring, the prediction and the management of the Radon concentrations in closed spaces, by means of a network of sensors and a predictive software.

PATENTS: “System for monitoring and predicting Radioactive Gases Concentrations”, Italian patent application filed No. 102020000006313.

AWARDS: Finalist at StartCupCampania2015 competition.

PERSONAL SKILLS

Mother tongue(s) ITALIAN

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
ENGLISH	C2	C2	C2	C2	C2

Communication skills Excellent verbal communication skills, gained through a multi-decade experience as lecturer at University, at international conferences and in the context of international scientific collaborations. Experienced at giving presentations to large audiences. Excellent written communication skills, gained through a multi-decade experience in writing project proposals for international calls.

Organisational / managerial skills Leadership (responsible for large research teams, composed of senior researchers, junior researchers and students)

- Job-related skills**
- good command of quality control processes (coordinator of the quality assurance processes in a scientific research laboratory)
 - member of the Committee for Impartiality Safeguard for two Certification companies:
Dimitto Italia SrL
Dimitto AG

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Independent user	Proficient user	Proficient user

- good command of office suite (word processor, spread sheet, presentation software)

ADDITIONAL INFORMATION

Memberships

Italian Association of Radioprotection (AIRP);
Italian Association of Radon professionals;
Italian Physical Society (SIF);

MEMBER OF THE EDITORIAL BOARD OF THE INTERNATIONAL JOURNALS:

Journal of Radiation and Nuclear and Applications (JRNA),
the International Journal of Fundamental Physical Sciences (IJFPS),
International Journal of Environmental Planning and Management, PSF
International Journal of Modern Physics and Applications, PSF.
International Journal of Environmental Research and Public Health (IERPH), MDPI

PEER-REVIEWER OF THE INTERNATIONAL JOURNALS:

PHYSICAA, Elsevier
JOURNAL OF ENVIRONMENTAL RADIOACTIVITY, Elsevier.
GEOTHERMICS
International Food Research Journal
ANNALS OF THE AMERICAN ASSOCIATION OF GEOGRAPHERS
Journal of Radiation Research and Applied Sciences (JRRAS)
Journal of Radioanalytical and Nuclear Chemistry (JRNC), Springer.
Current Advances in Environmental Science (CAES) Environmental Earth Sciences (EES)
Iranian Journal of Nuclear Medicine (IRJNM)
Applied Water Science (AWSC)
Sustainability, MDPI
International Journal of Environmental Research and Public Health (IERPH), MDPI
Polymers, MDPI
Materials, MDPI.
Epidemiologic Methods, De Gruyter.
Radiation Physics and Chemistry, Elsevier.

H index (Scopus, Sept 2020): 37

Total citations (Scopus, Sept 2020): 8158

ANNEXES

- Publication list (last 15 years)

The undersigned agrees to the processing of his personal data pursuant to Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of individuals with regard to the processing of personal data and on the free movement of such data and repealing Directive 95 / 46 / EC (General Data Protection Regulation).

Fisciano, March 04, 2021

Prof. Michele Guida