

Dr Giancarlo Raiteri - *Curriculum Vitae*

Name and surname: Giancarlo Raiteri

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Professional Experience

Research

- from November 2022 to present: technologist at Marine Environment Centre - ENEA;
- from May 2014 to October 2022: technical collaborator at Marine Environment Centre - ENEA;
- from April 2009 to April 2014: technical collaborator at Faenza Laboratory Research - ENEA;
- from December 2008 to April 2009: research fellow at International Centre for Theoretical Physics (ICTP-UNESCO), Trieste;
- from December 2005 to November 2008: research fellow at University of Trieste, associated with the National Institute for Nuclear Physics (INFN - Trieste Section);
- from March 2004 to November 2005: fixed-term researcher at Institute of Metrology "G. Colonnetti" (IMGC-CNR, now part of the National Institute of Metrological Research, INRiM), Torino (Italy);
- from December 2002 to February 2004: research fellow at IMGC-CNR.

Teaching

- Academic years 2001/2002 and 2002/2003: Assistant Professor at the Polytechnic University of Turin for the following courses: "Statistics A", "Mechanical and Thermal Measurements", "Experimental Statistics and Mechanical Measurements".

University Education

- March 11, 2003: PhD in "Metrology: Science and Technique of Measurement" (15th Cycle), at the Polytechnic University of Turin (Department of Production Systems and Business Economics). Thesis title: "Generation and measurement of pure gas flows below 1E-5 mol/s";
- October 23, 1999: Master's degree in Physics at the University of Turin. Thesis title: "Study of thermal desorption from metallic samples using Thermal Desorption Spectroscopy."

Main skills and competences

- Participation in marine campaigns aimed to the measurements of Essential Ocean Variables, data analysis and uncertainty evaluation of the measurement processes;
- thermo-mechanical characterization of metallic, composite, and ceramic materials. Non-destructive testing using resonance and ultrasound, statistical analysis of results. Development of data acquisition systems and experimental process management;
- theoretical study on the characteristics of Quantum Cascade Laser;
- management of experimental equipment in the field of magneto-optical physics of vacuum. Use of near-infrared lasers and resonant cavities. Detection of low-rate photons in the visible range;
- metrological characterization of primary strength and pressure standards;
- use of materials testing machines;
- mechanical design and 3D printing.