



CURRICULUM VITAE Elio GIROLETTI

Personal data

Nationality: Italian, Male

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Professional profile

Radiation protection against ionizing radiations and health and safety at work:

- Radiation Protection Expert (3rd decree, maximum level according to the Italian law and the European directive), radiation protection of workers and of the population against ionizing radiation, i.e. using x-rays, radioactive material, natural radioactivity, etc.;
- Medical Physics Expert: radiation protection of patients in radiation medical practices;
- Health and safety of workers.

Studies

Graduated in Physics at the University of Pavia, Italy (1978)

Graduated in Medical Physics at the University of Milan, Milan (1991).

Professional experience and skills

Since 2002, researcher at the University of Pavia, giving the following courses:

- Radiation protection (Master degree in Physics, dept. of Physics);
- Physical risks at work (postgraduate school of Hygiene, Faculty of Medicine).

Member of the team set up by the Italian Minister of Universities for setting up the national law about health and safety at work devoted to the Italian Universities (1996-1998).

Manager of the HSE (health, safety and environmental) Dept. and of the Radiation protection Service of the University of Pavia (1991 – 2002). Performing his tasks, he has gotten also the following skills: laser and ultraviolet risk assessment and protection.

RESPONSIBLE FOR THE HEALTH AND SAFETY AT WORK Service

Responsible of the HSE Service of a lot of institutions such as: CNAO: National Centre of Hadron Therapy in Pavia (2006–2010); INGM: National Institute of Molecular Genetics in Milan (2007-2010) and also at private companies, hospitals and medical divisions (some are listed below).

RADIATION PROTECTION EXPERT

In charge as Radiation Protection Expert of many institutions and private companies such as: University of Pavia (1991-2003, radiobiological and research facilities); Nuclear research reactor of the University of Pavia (LENA, Triga Mark reactor, 1999–2001 and as replacement 2005-2009); CNAO: National Centre of Hadron Therapy Foundation in Pavia (2007–2010, proton and carbon ion therapy beams up to 400 MeV/u); INFN: National Institute of Nuclear Physics in Pavia (since 2002, nuclear physics research activities); Saipem SpA Fabrication – industrial radiography in oil companies- (since 2012); Regional



Health Agency managing many hospitals (ASL of Melegnano, Mi, 1999 – 2006, health and medical activities); National Institute of Molecular Genetics in Milan (INGM, since 2014).

MEDICAL PHYSICS EXPERT

In charge as medical Physics expert of many institutions, such as: University of Pavia (1991-2003); Regional Health Agency (managing many hospitals, ASL of Melegnano, Mi, 1999 – 2006, health and medical activities).

Specific experience about radiation protection of the following areas/plants:

- Nuclear research reactor (TRIGA Mark);
- Research laboratories in physics, biology, geology, chemistry, pharmacy, radiochemistry;
- Medical practices: radiodiagnostic and radiotherapy;
- Radon indoor and NORM (Natural Occurring Radioactive Material) exposures;
- Environmental radiological monitoring (sites next to the Caspian sea, 2003-2006).
- Industrial radiography (Non Destructive Testing) at fabrication yards located in: Angola, Nigeria, Congo, Saudi Arabia, Indonesia, Azerbaijan, Kazakhstan, Iraq, Brasil and Italy (since 2010) – performing audits and training about radiation protection in each yard.

Been involved in several researches, among which:

- Radiation dosimetry with electronic paramagnetic resonance of TLD dosimeters (1984);
- Radiation protection of patients: risk assessment for patients undergoing cystourethrography examination (1991-1992);
- Radiation protection in neutron scanning of containers (2007–2011);
- Natural radioactivity influence on the ARGO cosmic ray detector (Italian Chinese scientific collaboration in Tibet, 2007-2014);
- Analysis about radon time variations (since 2003).

Been responsible of the earthquake prediction research based on soil radon variations as seismic precursor (published after the earthquake occurred in Ecuador in 1986).

IAEA collaboration

Collaboration with IAEA (International Atomic Energy Agency, UN Agency in Vienna):

- radiation protection in industrial radiography (WGIR: Working Group on Industrial Radiography, 2011-2013);
- Member of the Agency's Team set up for assessing the IAEA radiation protection policy and related activities (2012–2013).

International Cooperation

1984 - 1990: working in South America (Ecuador and Bolivia), involved in the international cooperation with COOPI (Cooperazione Internazionale, Italian non-governmental organization) in Ecuador and Bolivia.

In Ecuador, working at the Polytechnic of Chimborazo (ESPOCH: Escuela Superior Politécnica de Chimborazo, Riobamba, Ecuador, 1985-1988); his job description involved:

- Professor of Physics and of Radiation protection at the Faculty of Science;
- Set up of the “Laboratorio de técnicas nucleares”;
- Collaboration with the National Regulatory Board (CEEAA: Comisión Ecuatoriana de Energía Atómica, Quito);
- Manager the investigation on the earthquake prediction (see also researches).



UNIVERSITÀ DEGLI STUDI DI PAVIA
DIPARTIMENTO DI FISICA

In Bolivia, as Cooperazione Internazionale Manager (1989-1991), responsible for several cooperation projects supported both by the Italian Government and by International Institutions (Red Cross, UNDP, etc).

In El Salvador, collaboration – teaching about radiation protection in industrial and medical areas- at the University Don Bosco (San Salvador, since 2016), according to the agreement signed by the University of Pavia and the Don Bosco University.

Languages

Italian: native tongue; Spanish: fluent; English: good; French: sufficient.

Willingness

Available for either short, medium or long periods in foreign missions.

Additional information

Driving license: Italian (cat.C) and Ecuadorian driving licenses. Sports: mountains walking and swimming; personal interests: reading, films.

Pavia, 2017 March

Elio GIROLETTI