

# Curriculum Vitae

Last name, First name: Goiceanu, Cristian

Gender: M

Nationality/ies: Romanian

## Overall Scientific Expertise:

Dr. Cristian Goiceanu is a physicist specialized in Electromagnetics with an expertise in Bioelectromagnetics. His research interests include the interaction of electromagnetic fields (EMF) with living matter, the characterisation and measurement of people's exposure to EMF, hazard identification and mitigation, as well as development of EMF exposure standards. He has provided scientific consultancy to the Romanian Ministry of Health concerning human exposure to EMF and development of exposure standards. He also contributed to the EC Guide for implementing EMF Directive 2013/35/EU and he is the first author of three Romanian guides concerning non-ionizing radiation protection (EMF and UV).

## Professional Experience

Years employed from – to	Title of position	Employer – name and location	Areas of professional specialisation <sup>^</sup>
2009 – present	Principal physicist	National Institute of Public Health, Regional Center of Public Health of Iași - Romania	Physics (EMF & UV radiation, optimization of EMF exposure limits)
2014-2016	Radiation protection scientist	Public Health England, Centre for Radiation, Chemicals and Environment Chilton, United Kingdom	Bioelectromagnetics (EMF radiation, exposure assessment, emission tests)
2006-2007	Research fellow	University of Bayreuth, Institute of Physics, Germany	Physics (Dielectric properties of materials)
2003	Visiting scientist	Swiss Federal Institute of Technology (ETH), IT'IS Laboratories Zurich	Bioelectromagnetics, EMF dosimetry
2001-2009	Specialist physicist	Institute of Public Health of Iași - Romania	Physics (EMF radiation, exposure assessment)
1996-2001	Physicist	Institute of Public Health of Iași - Romania	Physics (EMF radiation)
1993-1995	Research & teaching assistant	“Alexandru Ioan Cuza” University of Iasi, Romania	Physics (electromagnetic excitation and diagnosis of plasma)

## Educational Background

Year	Degree awarded	Educational Institution – name and location	Areas of educational specialisation*
2009	Occupational Health and Safety Specialist & Risk assessor	“Gheorghe Asachi” Technical University, Iasi, Romania	Occupational Health and Safety
2003	PhD	“Alexandru Ioan Cuza” University of Iasi, Romania	Physics (EMF radiation)
1993	Diploma in Physics (equivalent to Master)	“Alexandru Ioan Cuza” University of Iasi, Romania	Physics (Electromagnetics)

### **Memberships in Scientific Advisory Bodies/Committees/Panels:**

- Member of the Non-Ionizing Radiation (NIR) Task Group of IRPA (International Radiation Protection Association) (2022 - present)
- Member of the Expert Team of the National Institute of Public Health (Romania) for the assessment of service providers concerning measurement of occupational agents (EMF) (2018-present)
- Member of the Expert Group on NIR of the Romanian Ministry of Health (2015 - present)

### **Memberships in Learned Societies:**

- International Radiation Protection Association (IRPA) (2002 – present)
- International Union of Radio Science (2002 - 2008)
- Romanian Society of Radiological Protection (2002 – present)
- Romanian Society for Pure and Applied Biophysics (2002 – present)
- Romanian Electromagnetic Compatibility Association (2008 – present)

### **List of Publications:**

Books: 3, Book chapters: 2, Peer-reviewed articles: 41

- Goiceanu, C., Danulescu, R., Danulescu, E. (2023). Some considerations on the challenges related to the use of the new ICNIRP restrictions for human exposure to radiofrequency fields. *Radiation Protection Dosimetry*, 199(8-9): 818–825.
- Broom, K. A., Findlay, R., Addison, D., Goiceanu, C. and Sienkiewicz, Z. (2019). Early life exposure to pulsed 1846 MHz radiofrequency fields causes persistent changes in activity and behaviour in mice. *Bioelectromagnetics*, 40:498-511, 2019.
- Peyman, A., Addison, D., Mee, T., Goiceanu, C., Maslanyj, M. and Mann, S. (2017). Exposure to Electromagnetic Fields from Smart Utility Meters in GB; part 1 - Laboratory Measurements. *Bioelectromagnetics*, 38(4): 280-294.
- Aerts, S., Calderon, C., Valič, B., Maslanyj, M., Mee, T., Addison, D., Goiceanu, C., Verloock, L., Van den Bossche, M., Gajšek, P., Vermeulen, R., Rössli, M., Cardis, E. and Joseph, W. (2017). Measurements of intermediate-frequency electric and magnetic fields in households. *Environmental Research*, 154: 160–170.
- Goiceanu, C., Danulescu, R., Danulescu, E., Danulescu, R.E. (2013). Implementing european methodologies to assess environmental electromagnetic field levels: some difficulties and solutions. *Environ. Eng. Manage. J.*, 12(6): 1179-1186.
- Goiceanu C, Danulescu R. Danulescu E, Tufescu FM, Creanga DE. (2011). Exposure to Microwaves Generated by Radar Equipments: Case-Study and Protection Issues. *Environ. Eng. Manage. J.*, 10(4): 491-498.
- Danulescu R. Goiceanu C, Danulescu E, Reaboiu K, Balaceanu G, Borza V. (2011). Nervous System and Neuroendocrine Effects in Long Term Occupational Exposure To Microwaves. *Environ. Eng. Manage. J.*, 10(4): 481-489.
- Christ A, Klingenbock A, Samaras T, Goiceanu C, Niels Kuster (2006). The Dependence of Electromagnetic Energy Absorption on the Properties of Layered Body Tissue in the Frequency Range from 236MHz to 6GHz. *IEEE Transactions on Microwave Theory and Techniques*, 54(5), 2188-2195.
- Goiceanu C, Danulescu R. (2006). Occupational exposure to power frequency fields in some electrical transformation stations in Romania. *Int. J. Occup. Safety & Ergonomics*, 12(2): 149-153.
- Goiceanu C, Danulescu R. (2003). Extrapolation of frequency-dependent ceiling limit values for occupational exposure to magnetic fields between 0 and 1 Hz. *Health Physics*, 84(6), 770-773.