



European  
Commission

# Workshop: Competences for medical applications of nuclear science – Speakers

JRC Petten Site  
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## Bernard Magenhann



Bernard Magenhann is a Chartered Accountant and a Registered Auditor.

He started his career as an external auditor working successively for Mazars and PricewaterhouseCoopers.

He joined the European Commission in Brussels in 2002 where he worked in the Internal Audit Service, notably as Assistant to the Director General and Head of Unit responsible for the Internal Audit of the Regulatory Agencies (2002–2011).

He was in charge of Business Process Re-engineering in DG HR between 2011 and 2013. In 2013 he was appointed Resource Director in DG DIGIT. In 2016 he returned to DG HR where he was appointed Deputy Director-general, notably in charge of Organisational Development, Talent Management and Budget and Finance.

Finally, he joined the Joint Research Centre on 16 May 2020 as Deputy Director-general. He is in charge of Nuclear Decommissioning and Waste Management, Nuclear Safety and Security, Digital Transformation and Data, as well as Strategy and impact and Support services.

## Csilla Pesznyak



President of the European Nuclear Education Network (ENEN)

Medical Physics and Radiation Protection Expert

Associate professor at the Budapest University of Technology and Economics.

Head of Radiation Protection Service at the National Institute of Oncology, Hungary.

President of the Hungarian Society for Radiation Oncology.

President of the Health Physics Section, Roland Eötvös Physical Society.

Member of the European Federation of Organizations for Medical Physics Professional Matters Committee and Education & Training Committee for more than 10 years.

## Joaquin Pedro Sanchez

PhD in Plasma Physics, Complutense University, Madrid.

Currently Director for Scientific-Technical Coordination at CIEMAT, the national research centre for Energy Environment and related technologies, former director of the Fusion Research Department at CIEMAT.

Among other international responsibilities, Joaquin Sanchez was Task Force Leader at the JET experiment, the world largest fusion experiment in operation, chairman of the ITER Science and Technology Advisory Committee, member of the ITER Council and chairman of the Governing Board of the European Joint Undertaking “Fusion for Energy”.

## Marieke van Dok



Responsible for the states shareholdership and financing of PALLAS, a research and Isotope production reactor. PALLAS is the replacement of the current High Flux Reactor in Petten, the Netherlands.

In future, as single shareholder of NRG|PALLAS, government representative for isotope production at the HFR in Petten.

Lead in national policymaking on future diagnostic and curative isotope development, processing- and production technologies and nuclear healthcare. In a public private partnership with universities, research institutes, physicians and innovative businesses.

Concerned with European policymaking on future availability, accessibility and affordability of nuclear pharmaceuticals.

Management background in pharmaceutical policymaking, European affairs and political consultancy.

Based at the Dutch Ministry of Health, Welfare and Sport, DG Curative Care.

## Ulla Engelmann



Ulla Engelmann has obtained a PhD in radiochemistry at the technical university of Karlsruhe in 1992.

She then started as a postdoc in JRC Ispra in the Tritium laboratory, and moved to heading the PR department in JRC Ispra in 1997. From 2004 she worked in different Head of Unit functions in JRC, including communication, international and interinstitutional relations.

She moved to DG GROW (Directorate-General for Internal Market, Industry, Entrepreneurship & SMEs) in 2017, where she held different functions with responsibility for SME networks, such as industrial clusters and Enterprise Europe Network, entrepreneurship, social economy and industrial forum and she was one year acting Director for networks and governance.

Since 2023 she is JRC Karlsruhe Site Director (employer) and JRC Director G for Nuclear Safety and Security with units based in Karlsruhe (D), Geel (B), Petten (NL) and Ispra (I).

## Philippe Montarnal

Philippe Montarnal holds a Master degree and a PhD in Applied mathematics.

He first worked for 15 years at the French Atomic Energy Commission (CEA) in various scientific fields of nuclear energy.

For the past 10 years, he has worked in European affairs and international relations on nuclear topics.

In particular, he has been Nuclear Counsellor to the French Embassy in India and CEA Representative in Brussels.

In 2022, he was appointed Nuclear Attaché at the Permanent Representation of France to the European Union.

## Leon Cizelj



Head of Reactor Engineering Division at the Jožef Stefan Institute, Ljubljana, Slovenia. Responsible for the strategic and operational leadership of the division active in the field of nuclear engineering and safety of nuclear installations.

Full professor of nuclear engineering at the University of Ljubljana, Slovenia, Faculty of mathematics and physics. President of the ENS (European Nuclear Society) in 2022-2023. President of the Board of Directors of ENEN (European Nuclear Education Network Association) 2016-2020. Member of the Governing Board of Sustainable Nuclear Energy Technology Platform and European Technical Safety Organization Network. Member of the editorial board of Science and Technology of Nuclear Installations.

Ph. D. in Physics 1993, University of Ljubljana, Slovenia. Member of the supervisory board of the Slovenian Sovereign Holding SDH d.d., state capital asset manager of Slovenia (2021-2022). Chairman of the Management Board of Slovenian radwasteagency ARAO (2012-2015), Vice-Chairman of the Supervisory Board ELES d.o.o (Slovenian national power grid operator, 2006-2008), Vice-Chairman of the Supervisory Board of Gen Energija Ltd. (Owner of Slovenian Nuclear Power Plant Krško, 2012 - 2013).

## Gabriel Pavel



Executive Director of ENEN, an organization of over 90 institutions mainly from Europe but with strong connections with international organizations all over the world. Responsibilities in designing and managing E&T projects and developing the

ENEN's E&T strategy and management

Under implementation: 12 E&T projects

Professional background: lecturer at the University Politehnica of Bucharest on Nuclear Engineering. Numerous specialization stages in various countries.

## Michel Koole

Michel Koole holds a master's degree in physics and is a certified medical physicist. Since 2014, he has served as an Associate Professor in the Nuclear Medicine and Molecular Imaging Department at KU Leuven, where his research focuses on quantitative molecular imaging and dosimetry.

With a publication record of over 150 peer-reviewed articles, he currently supervises six Ph.D. students in the field of image quantification, and he has successfully guided six of his previous Ph.D. students to completion.

In 2022, Michel Koole was elected as a board member of the European Association of Nuclear Medicine (EANM) and appointed as the scientific liaison officer for the period of 2022-2024.

## Antonella di Trapani



Dr Antonella di Trapani is leading the OECD Nuclear Energy Agency activities in nuclear education, training and knowledge management by heading the Secretariats of the Nuclear Education, Skills and Technology (NEST) Framework and the Global Forum on nuclear education, science, technology, and

policy.

She has senior level experience in science management, policy, diplomacy, communication and international co-operation gained by working in several international organisations, including the European Commission.

She holds a MSc in Chemistry from the University of Palermo (Italy), a PhD in Chemistry and a PostGraduate Diploma in Quality Improvement from Trinity College Dublin (Ireland), a MSc in Science Communication and Journalism from University of Ferrara (Italy), and a PostGraduate Diploma in International Development from London School of Economics and Social Sciences (UK).

She is, among others, Advisory Board member of the IAEA Technical Working Groups on Human Resources Development and Knowledge Management, European Commission European Human Resources Observatory in Nuclear, and lately nominated to the Advisory Board of the UCL Bachelor Degree on Science and Technology for Social Change.

## Hermen van der Lugt



Hermen van der Lugt (1966) is the director Compliance, Risk & Organisation of Stichting NRG as well as Stichting Voorbereiding PALLAS-reactor (PALLAS) since mid-2022. Within his scope are Compliance, Risk Management, HR, Information Management, HSE (Health, Safety, Environment), Security and Legal. His main current assignment is to guide the development of the organisation to the future – the PALLAS era.

Since the start in 2013 he was CEO of PALLAS. He developed the PALLAS organisation from a small project team to an organisation consisting of top professionals and international suppliers.

Hermen is a physicist by education (Leiden University). After his PhD study in experimental physics (at institutes in Amsterdam, Hamburg and Geneva) he worked as (senior) researcher in telecommunication and information technology in a public-private setting at the Telematics Institute in the Netherlands. He led the Telematics Institute (rebranded to Novay) as programme and innovation director (5 years), followed by taking the CEO position (4 years). He supported the development of several spin-off companies, that all still exist as of today and transformed the institute to a market driven consultancy organisation.

## Anouk Lafortune

Anouk Lafortune is a policy officer in the Marie Skłodowska-Curie Actions (MSCA) unit, in the Directorate General for Education, Youth, Sport and Culture at the European Commission.

She notably works on the MSCA Postdoctoral Fellowship action, and on more horizontal topics for the programme, including the cooperation and synergies with the Euratom Research and Training Programme and academia-business cooperation.

Before joining the Commission, she was an early-career researcher and holds a doctoral degree in social sciences from Durham University.



## Odile Jaume

With a MBA from UChicago USA and engineering degree from UCL Belgium, Odile is a healthcare executive with entrepreneurial and innovation acumen.

After holding various sales and marketing management roles at IBA and Siemens Healthineers, she contributed to the start-up and business development of a series of organizations active in translational research and Theranostics, including as President and COO of Telix Pharmaceuticals Europe.

Since June 2021 she is the CEO of the International Centers for Precision Oncology (ICPO), a German non-profit organization aiming at expanding global patient access to Radiomolecular Precision Oncology by offering certified professional education and developing a network of centers sharing international clinical standards and best practices.

## Jean-Christophe Gariel

Jean-Christophe Gariel is currently deputy director general of the institute for radiation protection and nuclear safety (IRSN, France) In charge of the health-environment division.

After obtaining a PhD in physics at the University of Grenoble (France), he worked in the field of seismic hazard assessment successively at the Lamont-Doherty Geological Observatory of Columbia University (New York, USA), and at the Disaster Prevention Research Institute of Kyoto University (Japan).

In 1990, he joined the IRSN where he successively held positions in the field of seismic risk assessment and then in the field of environmental radioactivity.

More recently, he was successively Director of the Environment and Director of Health at IRSN. His field of expertise is centered on radiation protection, covering both environmental and human protection.



## Margarida Goulart



Margarida Goulart is a Head of Unit of Euratom Coordination at the Joint Research Centre of the European Commission, where she has been working for more than 10 years.

Her main field of expertise includes research and policy implementation in nuclear, chemical and biological security and in nuclear science applications, particularly medical radionuclides. Margarida is a double graduate of Medicine and Pharmaceutical Sciences, and holds a doctorate in Toxicology.

Before joining the European Commission, she accumulated 15 years of academic experience as researcher and professor in higher education and research institutions in the area of Health and Life Sciences, both in Portugal and in the USA.

## Brian Guldbaek Erisken



Brian Eriksen is a project officer at the Euratom Coordination Unit of the European Commission's Joint Research Centre (JRC) in the Netherlands.

Since joining the JRC in 1990, he has been actively involved in various nuclear research and safety efforts. Currently, he is leading the European Human Resources Observatory in the Nuclear field (EHRO-N).

## Graciano Paulo



President, ESTeSC, Coimbra Health School;  
Polytechnic University of Coimbra  
Full Professor of Medical Imaging &  
Radiotherapy  
President-elect of EURAMED (European  
Alliance for Medical Radiation Protection  
Research)

Past President of the European Federation of Radiographers  
Societies (EFRS)

PhD in Health Sciences, Medical Faculty, University of  
Coimbra;

Head of Department of the World Health Organization (WHO)  
Collaborative Centre for radiation protection and health of  
ESTeSC-IPC, Coimbra Health School, Polytechnic University of  
Coimbra

Radiation Protection Committee Member of the  
Cardiovascular and Interventional Radiological Society of  
Europe (CIRSE).

Chair of “Ask EUROSAFE Imaging” of the European Society of  
Radiology

Work Package Leader (WP7) of EURAMED Rocc-n-roll EU  
project

Work Package Leader (WP7) of i-Violin EU project

Expert member in several Radiation Protection EU DGENER  
and IAEA projects

## Christophe Deroose

He obtained his M.D. in 2001 at the KU Leuven (Belgium)  
with summa cum laude and started a residency in nuclear  
medicine. From 2002 on he fulfilled a PhD training in Medical  
Sciences at the University of California, Los Angeles and at  
Stanford University. From 2006 on he resumed his residency  
in nuclear medicine in the University Hospital Leuven which  
he completed in 2008. From 2008 until now he has been  
working as a staff member nuclear medicine department of  
the University Hospital Leuven where he is responsible for  
imaging and therapy in cancer management.

He was appointed as assistant professor at the KU Leuven in  
2009, as associate professor in 2012 and as full professor  
from October 2021 on.

His research interest are focused on the use of nuclear  
medicine strategies in oncological patients, both for diagnostic  
and therapeutic purposes. He has a particular interest in the  
development of novel PET tracers.

He is the chair of the European Erasmus + “RLT Academy”,  
which aims to launch a multidisciplinary and transnational  
blended education program for healthcare professionals on  
the use of radioligand therapies in cancer care.

## Mark Arntzenius

My name is Mark Arntzenius and I am 27 years old. I studied Applied Physics at the TU Delft with the annotation of “Nuclear Science and Engineering”.

I have been working at NRG|Pallas for almost 3 years. I enrolled in the trainee program and quickly found my next function at FIELD-LAB as a process engineer.

Furthermore, I love to play squash and chess and I am happy to be a panelist at the JRC workshop about nuclear competences!

## Renata Madru

Holding a physicist engineer degree from Romania and certified medical physicist since 2008, Sweden. During my PhD I have developed radiolabeled nanoparticles to target and image the sentinel lymph nodes using SPECT, PET, MRI and optical imaging.

Since 2017 I work as a medical physicist (NM and Radiology) at Skane University Hospital in Lund, Sweden and I have a close collaboration with the Radiation physics department Lunds University. I am a member of EFOMP, project committee.

My main interest are theragnostic and AI in nuclear medicine and radiology.