

Academic Personnel Short Profile / Short CV

University:	Frederick University
Surname:	Parpottas
Name:	Yiannis
Rank/Position:	Professor
School:	Engineering
Department:	Mechanical Engineering
Scientific Domain:	Nuclear Physics and Applications in Engineering, Nuclear Medicine and Environmental Radioactivity

Academic qualifications

Qualification	Year	Awarding Institution	Department	Thesis title (Optional Entry)
Ph.D.	2004	Ohio University, USA	Physics and Astronomy	
M.Sc.	1999	Ohio University, USA	Physics and Astronomy	
B.Sc. (Honors: Summa Cum Laude)	1998	Ohio University, USA	Physics and Astronomy	
Diploma in Further Education	1995	Pedagogical Institute of Cyprus	Ministry of Education	
Diploma in Education	1993	Pedagogical Academy of Cyprus	Ministry of Education	

Employment history in Academic Institutions/Research Centers

Period of employment		Employer	Location	Position
From	To			
10/2007	Present	Frederick University	Nicosia, Cyprus	Professor
04/2006	10/2007	University of Cyprus	Nicosia, Cyprus	Research Scientist
06/2004	04/2006	Duke University	Durham, North Carolina, USA	Research Scientist

Key refereed journal papers, monographs, books, conference publications etc.

Ref. Number	Year	Title	Other authors	Journal and Publisher	Vol.	Pages
1	2024	The Impact of Dual and Triple Energy Window Scatter Correction on I-123 Postsurgical Thyroid SPECT/CT Imaging Using a Phantom with Small Sizes of Thyroid Remnants	K. Michael, A. Lontos, G. Demosthenous, S. Frangos, I. Iakovou	Life (MDPI)	14(1)	113-26
2	2023	Production of hydrogen isotopes and charged pions in p(3.5 GeV)+ 93Nb reactions	R. Abou Yassine, O. Arnold, M. Becker, P. Bergmann, A. Blanco, C. Blume, M. Böhmer, N. Carolino, L. Chlad et al.	Physical Review C (American Physical Society)	108(6)	64902-20
3	2022	A Moving Liver Phantom in an Anthropomorphic Thorax for SPECT MP Imaging	S. Panagi, A. Hadjiconstanti, G. Charitou, D. Kaolis, I. Petrou, C. Kyriacou	Physics and Engineering Sciences in Medicine (Springer)	45	63-72
4	2020	Directed, Elliptic, and Higher Order Flow Harmonics of Protons, Deuterons, and Tritons in Au+Au collisions at $\sqrt{s_{NN}}= 2.4$ GeV	J. Adamczewski-Musch, O. Arnold, C. Behnke, A. Belounnas, A. Belyaev, J.C. Berger-Chen, J. Biernat, A. Blanco, C. Blume, M. Böhmer, P. Bordalo et al.	Physical Review Letters (American Physical Society)	125	262301-7
5	2019	Probing dense baryon-rich matter with virtual photons	J. Adamczewski-Musch, O. Arnold, C. Behnke, A. Belounnas, A. Belyaev, J.C. Berger-Chen, J. Biernat, A. Blanco, C. Blume, M. Böhmer, P. Bordalo et al.	Nature Physics (Nature)	15	1040-5

6	2017	Characterization of attenuation and respiratory motion artifacts and their influence on SPECT MP Image evaluation using a dynamic phantom assembly with variable cardiac defects	I. Chrysanthou-Baustert, I. Polycarpou, O. Demetriadou, L. Livieratos, A. Lontos, A. Antoniou, S. Christofides, C Yiannakkaras, D. Kaolis, C. Panagidis, P.K. Marsden	Journal of Nuclear Cardiology (Springer)	24(2)	698-707
7	2015	Subthreshold Ξ^- Production in Collisions of p(3.5 GeV)+Nb	J. Adamczewski-Musch, O. Arnold, C. Behnke, A. Belounnas, A. Belyaev, J.C. Berger-Chen, J. Biernat, A. Blanco, C. Blume, M. Böhmer, P. Bordalo et al.	Physical Review Letters (American Physical Society)	114	212301-8
8	2015	Systematic grid-based radon concentration measurements in the urban areas of Cyprus	E. Erodotou, M. Socratous, H. Tsertos	Journal of Geochemical Exploration (Elsevier)	159	20-32
9	2010	Gamma radiation measurements and dose rates in commonly used building materials	F. Michael, H. Tsertos	Radiation Protection Dosimetry (Oxford University Press)	142	282-91
10	2004	Astrophysically important ^{26}Si states studied with the $(^3\text{He},n)$ reaction and the $^{25}\text{Al}(p,\gamma)^{26}\text{Si}$ reaction rates in explosive hydrogen burning environments	S.M. Grimes, S. Al-Quraishi, C.R. Brune, T.N. Massey, J.E. Oldendick, A. Salas, R. Wheeler	Physical Review C (American Physical Society)	70	65805-13

Research Projects				
Ref. Number	Date	Title	Funded by	Project Role
1	2024-	3D-printing of elastic resins for the development of deformable medical phantoms	Research and Innovation Foundation	Scientific Coordinator
2	2022-2023	Investigation of radiological concentrations of radon in drinking water and soil, in Cyprus	Cyprus Government	Scientific/Project Coordinator
3	2019-2021	Optimizing the diagnostic value of postsurgical I-123 SPECT thyroid imaging and applying patient-specific dosimetry for radioiodine	Research and Innovation Foundation	Scientific/Project Coordinator
4	2019-2022	Investigate and determine the radiological concentration of indoor radon in Cyprus	Cyprus Government	Scientific/Project Coordinator
5	2019-2021	Optimizing the diagnostic value in SPECT myocardial perfusion imaging under the influence of liver activity	Research and Innovation Foundation	Scientific/Project Coordinator
6	2012-2014	Optimizing the diagnostic value in SPECT myocardial perfusion imaging under the influence of the respiratory motion,	Research and Innovation Foundation	Scientific/Project Coordinator
7	2010-2012	Optimizing the diagnostic value in SPECT myocardial perfusion imaging,	Research and Innovation Foundation	Scientific/Project Coordinator
8	2012-2013	Characterization of pigments in Byzantine frescoes using the X-Ray Fluorescence technique	Research and Innovation Foundation	Scientific Coordinator
9	2009-2010	Systematic measurements of the radon concentration in residential areas of the Larnaca district'	Research and Innovation Foundation	Scientific Coordinator
10	2006-2010	Upgrade of the existing High-Performance Linux Cluster for multiparameter physics experiments with heavy ions at the international research center GSI	Research and Innovation Foundation	Main Researcher

Academic Consulting Services and/or Participation in Councils / Boards/ Editorial Committees				
Ref. Number	Period	Organization	Title of Position or Service	Key Activities
1	2014-2022	Natural Gas Public Company of Cyprus	Board of Directors (Deputy Secretary)	
2	2018-2020	Natural Gas Infrastructure Company	Board of Directors	
3	2018-2028	Cyprus Government: Radiation Protection and Control Services	Advisory Board Member for Radiation Protection and Nuclear Safety	
4	2017-2026	Cyprus Government: Cyprus Organisation for Standardisation	Member of the National Technical Committee for Hydrocarbons	
5	2023-	Life (Journal)	Editorial Board	
6	2023-	Advances in Radiotherapy and Nuclear Medicine (Journal)	Editorial Board	
7	2013-	Cyprus Association of Medical Physics and Biomedical Engineering	Board Member (Member, Treasurer, Vice President)	
8	2008-	Cyprus Society of Nuclear Medicine	Board Member	
9	2022-	Cyprus Government: Ministry of Health	National Committee of Experts on Non-Ionizing Radiation	
10	2021-2027	European Atomic Energy Community	Management Committee of the European Programme EURATOM	
11	2023-	Hellenic Foundation for Research & Innovation	Certified Evaluator & Expert	
12	2022-	Slovak Research and Development Agency	Certified Evaluator	
13		International Atomic Energy Agency, Enhancing Capacities of Educational Institutions in Nuclear Technologies	National Counterpart	
14		Europe Training & Education in Radiation Protection	National Contact Point	

International Recognition			
Ref. Number	Date	Description	Position
1	2022-	European Nuclear Safety Regulators Group (ENSREG)	Expert Mission
2	2021-	European Commission	Member of SET Plan IWG 10 on Nuclear Safety
3	2004-	<p><u>Results from publications were entered in International Nuclear Compilations (Datasets/Libraries) of the International Atomic Energy Agency</u></p> <ol style="list-style-type: none"> 1. Parpottas et al, Physical Review C 70, 065805 (2004), XUNDL (2004PA42), EXFOR (C1599); ²⁸Si 2. Parpottas et al, Physical Review C 72, 025802 (2005), EXFOR (C1374); ¹⁸Ne 3. Li, Parpottas et al, Physical Review C 73, 054306 (2006), XUNDL (2006LI23); ⁴⁰Ar 4. Parpottas et al, Physical Review C 74, 015804 (2006), EXFOR (C1503); ¹²C 5. Elhami, Parpottas et al, Physical Review C 78, 064303 (2008), XUNDL (2008EL09); ⁹⁴Zr 6. Salas-Bacci, Parpottas et al., Physical Review C 70, 024311 (2004), EXFOR (C1578); ²⁸Si, ⁴⁶Ti, ⁵²Cr, ⁶⁰Ni <p>XUNDL (Experimental Unevaluated Nuclear Data List) EXFOR (Experimental Nuclear Reaction Data)</p>	

Other Achievements			
Ref. Number	Date	Description	Key Activities
1	2019-2021	<p>The Cyprusgas2EU project (Investment Project EIPP-20170351-Infrastructure) was funded (competitive call) by the Innovation and Networks Executive Agency (INEA) of the European Commission (EU) with an estimated total budget of 350 million euros. Purchase, installation and testing of infrastructure (Jetty for FSRU, FSRU, Jetty borne Gas Pipeline, Onshore Gas Pipeline, Pipeline Storage Array, Onshore Above Ground Installation – Metering Station) to provide Cyprus with Natural Gas.</p> <p>It is considered as one of the most important, large-scale and expensive projects of the country.</p>	<p>Decision Making and Management Committee as in the Board of Directors (Deputy Secretary) of the Natural Gas Public Company of Cyprus (CyGas).</p> <p>President and Deputy Secretary of CyGas signed the agreement</p>

			with the consortium to begin the project.
2	2011-	<p>Professional Certificate in Radiation Protection for Professionals in the Health Sector (12 specializations). Partners: Frederick Institute of Technology, Cyprus Association of Medical Physics and Biomedical Engineering; accredited by the European Federation of Organizations of Medical Physics; approved by the Department of Labor Inspection of the Cyprus Government.</p> <p>From 2018, this professional course can be offered by the Examination Centre of Frederick University.</p>	Coordinator