



Academic Personnel Short Profile / Short CV

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

Academic qualifications

Qualification	Year	Awarding Institution	Department	Thesis title (Optional Entry)
Ph.D.	2004	Ohio University	Physics and Astronomy	Astrophysically important states in ^{18}Ne and ^{26}Si studied with the $(^3\text{He},n)$ reaction
M.Sc.	1999	Ohio University	Physics and Astronomy	Production of 10 MeV neutrons using the $^9\text{Be}(p,n)$ reaction for the Boron Neutron Capture Therapy
B.Sc. (Honors: Summa Cum Laude)	1998	Ohio University	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	Associate 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 / Conference	Vol.	Pages
1	2020	Proton-number fluctuations in square-root = 2.4 GeV Au + Au collisions studied with the High-Acceptance DiElectron Spectrometer	J Adamczewski-Musch, G Agakishiev, O Arnold, ET Atomssa, C Behnke, JC Berger-Chen, J Biernat, A Blanco, C Blume, M Böhmer et al	Physical Review C	102	24914-24949
2	2020	Study of iron complexes in visceral organs and brain from a ⁵⁷ Fe enriched β-thalassaemia mouse model via Mössbauer spectroscopy	G Charitou, Ch Tsertos, M Kleanthous, C Lederer, M Phylactides	Journal of Molecular Structure	1215	12825 1- 12826 2
3	2019	Probing dense baryon-rich matter with virtual photons	J Adamczewski-Musch, O Arnold, C Behnke, A Belounnas, A Belyaev, JC Berger-Chen, J Biernat, A Blanco, C Blume, M Böhmer, P Bordalo, S Chernenko et al	Nature (Physics)	15	1040-1045
4	2017	Impact of respiratory motion correction on SPECT myocardial perfusion imaging using a mechanically moving phantom assembly with variable cardiac defects	I Polycarpou, I Chrysanthou-Baustert, O Demetriadou, C Panagidis, PK Marsden, L Livieratos	Journal of Nuclear Cardiology	24(4)	1216-1225

5	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, PK Marsden	Journal of Nuclear Cardiology	24(2)	698-707
6	2015	Systematic grid-based radon concentration measurements in the urban areas of Cyprus	E Erodotou, M Socratous, H Tsertos	Journal of Geochemical Exploration	159	20-32
7	2015	Subthreshold Ξ^- Production in Collisions of p(3.5 GeV)+Nb	J Adamczewski-Musch, O Arnold, C Behnke, A Belounnas, A Belyaev, JC Berger-Chen, J Biernat, A Blanco, C Blume, M Böhmer, P Bordalo, S Chernenko et al	Physical Review Letters	114	21230-1-21230-8
8	2011	International Conference on Image Optimisation in Nuclear Medicine	S Christofides	Book: Journal of Physics Conference Series	317	11001
9	2010	Gamma radiation measurements and dose rates in commonly used building materials	F Michael, H Tsertos	Radiation Protection Dosimetry	142	282-291
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	SM Grimes, S Al-Quraishi, CR Brune, TN Massey, JE Oldendick, A Salas, R Wheeler	Physical Review C	70	65805-65813

Research Projects				
Ref. Number	Date	Title	Funded by	Project Role*
1	2019-2021	Optimizing the diagnostic value in SPECT myocardial perfusion imaging under the influence of liver activity	Research Promotion Foundation	Scientific/Project Coordinator
2	2019-2021	Optimizing the diagnostic value of postsurgical I-123 SPECT thyroid imaging and applying patient-specific dosimetry for radioiodine ablation of thyroid remnants	Research Promotion Foundation	Scientific/Project Coordinator
3	2020-2022	Investigate and determine the radiological concentration of indoor radon in Cyprus	Radiation Protection and Control Services	Scientific/Project Coordinator
4	2012-2014	Optimizing the diagnostic value in SPECT myocardial perfusion imaging under the influence of respiratory motion	Research Promotion Foundation	Scientific/Project Coordinator
5	2012-2013	Characterization of pigments in Byzantine frescoes using the X-Ray Fluorescence technique	Research Promotion Foundation	Scientific Coordinator
6	2010-2012	Optimizing the diagnostic value in SPECT myocardial perfusion imaging	Research Promotion Foundation	Scientific/Project Coordinator
7	2006-2010	Upgrade of the existing High-Performance Linux Cluster for multiparameter physics experiments with heavy ions at the international research center GSI	Research Promotion Foundation	Main Researcher
8	2006-2008	Dilepton analysis of $^{12}\text{C}+^{12}\text{C}$ collisions at 1 AGeV	Research Promotion Foundation	Main Researcher
9	2004-2006	Study of the $^{11}\text{B}(d,n)^{12}\text{C}$ reaction at low energies	USA Department of Energy	Main Researcher
10	2000-2004	Astrophysically important ^{26}Si states studied with the $(^3\text{He},n)$ reaction	USA Department of Energy	Main Researcher

*Project Role: i.e. Scientific/Project Coordinator, Research Team Member, Researcher, Assistant Researcher, other

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	2018-2023	National Committee for Radiation Protection and Nuclear Safety	Advisory Member	
3	2016-	Cyprus Organisation for Standardisation	Member of the National Technical Committee for Hydrocarbons	
4	2014-	Cyprus Association of Medical Physics and Biomedical Engineering	Board Member (Treasurer)	
5	2015-	International Journal of Diagnostic Imaging	Editorial Member	

Awards / International Recognition (where applicable)			
Ref. Number	Date	Title	Awarded by:
1		<p>The following publication results were entered in the International Atomic Energy Agency Library and in the USA National Nuclear Data Center to be used as Nuclear Science References :</p> <ol style="list-style-type: none"> 1. Parpottas et al, Physical Review C 70, 065805 (2004), XUNDL (2004PA42), EXFOR (C1599); ²⁶Si 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><i>XUNDL (Experimental Unevaluated Nuclear Data List)</i> <i>EXFOR (Experimental Nuclear Reaction Data)</i></p>	

Other Achievements			
Ref. Number	Date	Title	Key Activities:
1	2019-2022	<p>The Cyprusgas2EU project (Investment Project EIPP-20170351-Infrastructure) 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.</p> <p>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><u>Coordinator</u>: Natural Gas Public Company of Cyprus (GyGas) <u>CyGas Board of Directors (BoD)</u>: Decision makers, Management Member of CyGas BoD (Deputy Secretary)</p>
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 is offered by the Examination Centre of Frederick University.</p>	Coordinator