FORM NUM: 500.1.03

Academic Personnel Short Profile / Short CV

University:	University of Nicosia
Surname:	Gaganis
Name:	Vassilis
Rank:	Adjunct Faculty
Faculty:	Sciences and Engineering
Department:	Engineering
Scientific Domain: *	Petroleum engineering

** Field of Specialization*

Academic qualifications (list by highest qualification)

Qualification	Year	Awarding Institution	Department	Thesis title
PhD	2006	Technical University of Crete	School of Mineral Resources Engineering	Process modeling using sensitivity analysis and artificial neural networks – Application to hydrocarbon phase behavior
MSc	1997	Technical University of Crete	School of Electrical and Computer Engineering	Development of ANN models to predict PVT and physical properties of reservoir fluids
BSc	1995	University of Patras	School of Mechanical Engineering	Modal analysis of rotor-bearing systems under seismic excitation

Employment history–List by the three (3) most recent				
Period of employment		Employer	Location	Position
From	To			
2017	Today	University of Nicosia	Nicosia, Cyprus	Adjunct Faculty
November 2017	Today	National Technical University of Athens	Athens, Greece	Assist. Professor
November 2006	November 2017	Technical University of Crete	Chania, Greece	Senior research associate
January 1997	June 2014	Schlumberger, Oilphase	Paris, France and Aberdeen, UK	Consultant

Key ***refereed*** journal papers, monographs, books, conference publications, etc. List the five (5) more recent and other five (5) selected–(max total 10)						
Ref. Number	Year	Title	Other authors	Journal and Publisher / Conference	Vol.	Pages
1	2021	Solution of the Rachford Rice equation using perturbation analysis		Fluid Phase Equilibria	536	11
2	2019	An Efficient Method to Predict Compressibility Factor of Natural Gas Streams	Homouz D., Maalouf M., Khoury N., Polychronopoulou K.	Energies	12 (13)	
3	2018	Rapid phase stability calculations in fluid flow simulation using simple discriminating functions		Journal of Computers and Chemical Engineering	108	112-127
4	2014	An integrated approach for rapid phase behavior calculations in compositional modeling	Varotsis N.	Journal of Petroleum Science and Engineering	118	74-87

5	2013	Reduced flash calculations with temperature dependent binary interaction coefficients		Fluid Phase Equilibria	354	166-176
6	2009	Application of artificial neural networks to downhole fluid analysis	Hegeman P., Dong C.	SPE Reservoir Evaluation & Engineering	12, 1	8-13
7	2006	Octane number prediction for gasoline blends	Pasadakis N., Foteinopoulos C.,	Fuel Processing Technology	87	505-509
8	1998	A novel approach for the characterization of aromatics in petroleum fractions using HPLC-UV-DAD and Evolving Factor Analysis	Pasadakis N., Varotsis N.	Fuel	77 (13)	1495-1502
9	2002	Quality assurance tool for PVT simulator predictions	Nighswander J., Varotsis N.	SPE Reservoir Evaluation & Engineering	5 (6)	499-506
10	2006	Characterization of oil spills in the environment using parallel factor multiway analysis	Pasadakis N.	Analytica Chimica Acta	573-574	328-332

Research Projects. List the five (5) more recent and other five (5) selected (max total 10)				
Ref. Number	**Date**	**Title**	**Funded by**	**Project Role***
1	2013	Explicit modeling of phase behavior calculations for use in reservoir and production modeling	Petroleum Experts	Scientific coordinator
2	2011	Evaluation of phase behavior calculations acceleration by use of proxy models	Kappa Engineering	Scientific coordinator
3	2011	Development of a fully automated GC-processing software for reservoir fluids	Schlumberger	Scientific coordinator
4	2011	Development of a method to estimate the shrinkage factor range for recovered reservoir fluid samples	Oilphase	Scientific coordinator
5	2008	Feasibility study on the development of a fully automated gas chromatography data processing software	Oilphase	Scientific coordinator
6	2008	Gas chromatography round robin project results evaluation	Oilphase	Scientific coordinator
7	2007	Development of an ANN based algorithm for the prediction of fluid PVT properties at modified line conditions used in conjunction with the Active Sampling Device (ASD)	Schlumberger	Scientific coordinator
8	2003	Sensitivity analysis of measurements uncertainty for the Vx flowmeter	Oilphase	Researcher
9	2002	Development of a hybrid ANNs set of models for PVT Expert	Schlumberger	Researcher
10	1996	Development of pattern recognition-based tools for the on-site prediction of the properties of a full PVT report with the PVT Express service	Schlumberger	Researcher

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

Consulting Services and/or Participation in Councils / Boards/ Editorial Committees. List the five (5) more recent				
Ref. Number	**Period**	**Organization**	**Title of Position or Service**	**Key Activities**
1	2014-2018	Petroleum Experts	Consultant	Consultancy work for software development
2	1997-2014	Schlumberger	Consultant	Consultancy work for development of services related to fluids
3	2019-	Dept. of Energy, Greece	Consultant	Consultancy work for the regulating framework in Geothermal energy

Awards / International Recognition (where applicable). List the five (5) more recent and other five (5) selected. (max total 10)			
Ref. Number	**Date**	**Title**	**Awarded by:**
1	2011	US patent 7966273, Predicting formation fluid property through downhole fluid analysis using artificial neural network	US patent office