

Personal Information	
Surname:	Gaganis
Name:	Vassileios
Rank:	Asst. Professor
School:	School of Mining and Metallurgical Engineering
Department:	-
Academic Domain:	National Technical University of Athens - Greece

Educational Qualifications		
Degree Title	Awarding Institution	Year Awarded
PhD	Petroleum engineering	2006
MSc	Petroleum engineering	1997
BSc	Mechanical engineering	1995

Employment History			
Period of Employment (MM/YY-MM/YY)	Employer	Location	Position
2018-today	School of Mining and Metallurgical Engineering, National Technical University of Athens	Athens, Greece	Asst. Prof.
2016	Petroleum Experts (PetEx)	Edinburgh, UK	Scientific software developer
2006-2018	School of Mineral Resources Engineering, Technical University of Crete	Chania, Greece	Senior research scientist
1995-1997	School of Electronic and Computer Engineering, Technical University of Crete	Chania, Greece	Research assistant

Publications						
<i>Key refereed journals / conference publications / books (monographs, co-authored, edited, chapters) (list up to 10 most recent and important ones)</i>						
	Year	Title	Authors	Journal/Conference/ Book/etc	Vol. No /ISBN	Pages
1	2018	Rapid phase stability calculations in fluid flow simulation using simple discriminating functions	Gaganis V.	Computers & Chemical Engineering	108	112-127
2	2017	An accurate method to generate composite PVT data for black oil simulation	Gaganis V., Kourlianksi E., Varotsis N.	Journal of Petroleum Science and Engineering	157	1-13
3	2014	An integrated approach for rapid phase behavior calculations in compositional modeling	Gaganis V., Varotsis N.	Journal of Petroleum Science and Engineering	118	74-87
4	2013	Reduced flash calculations with temperature dependent binary interaction coefficients	Gaganis V.	Fluid phase equilibria	354	166-176
5	2013	An improved BIP matrix decomposition for fast reduced flash calculations	Gaganis V., Varotsis N.	Fluid phase equilibria	340	63-76
6	2009	Application of artificial neural networks to downhole fluid analysis	Hegeman P., Dong C., Varotsis N., Gaganis V.	SPE Reservoir Evaluation & Engineering	12 (1)	8-13
7	2016	Identification of the compositional path followed during reservoir simulation improves the accuracy and accelerates the phase behavior calculations	Gaganis V., Varotsis N.	SPE paper 180124	-	-
8	2012	Machine learning methods to speed up compositional reservoir simulation	Gaganis V., Varotsis N.	SPE paper 154505	-	-
9	2012	A new transformation for the rapid solution of the Rachford-Rice equation in phase split calculations	Gaganis V., Varotsis N.	SPE paper 150932	-	-
10	2001	Quality assurance tool for PVT simulator predictions	Varotsis N., Gaganis V., Nighswander J.	SPE paper 68235	-	



Funded Projects						
<i>(list up to 10)</i>						
	Project Title	Funding Agency	Project Duration (DD/MM/YY-DD/MM/YY)	Participation Status (e.g. Partner, Principal Investigator, Research Associate)	Total Project's Budget	Allocated / Awarded Budget to the Participant
1	Explicit modeling of phase behavior calculations	Petroleum Experts, UK	4 years	Principal investigator	400 kGBP	
2	Phase behavior calculations by use of proxy models	Kappa engin., France	1 year	Principal investigator	10 kEUR	
3	Fully automated GC-processing software for reservoir fluids	Oilphase, UK	6 months	Principal investigator	32 kGBP	
4	Estimation the shrinkage factor range for recovered reservoir fluid samples	Oilphase, UK	6 months	Principal investigator	15 kGBP	
5	<i>GC round robin project results evaluation</i>	Schlumberger, Aberdeen, UK	8 months	Principal investigator	28 kGBP	
6	<i>ANN based algorithm to predict PVT properties with the (ASD)</i>	Schlumberger, Aberdeen, UK	1 year	Principal investigator	100 kGBP	
7	<i>Neural network algorithms for the prediction of reservoir fluids GOR</i>	Schlumberger, Aberdeen, UK	10 months	Principal investigator	32 kUSD	
8	<i>Pattern recognition-based tools for the on-site prediction of a full PVT report properties</i>	Schlumberger Clamart, France	2 years	Principal investigator	120 kUSD	
9	<i>Sensitivity analysis of measurements uncertainty for the Vx flowmeter</i>	Oilphase, Aberdeen, UK	10 months	Principal investigator	30 kUSD	
10	<i>EoS emulation tool to rapidly provide direct PVT values during reservoir simulation</i>	Schlumberger Oilfield UK plc	1 year	Principal investigator	32 kUSD	

Consultancy and Scholarly Work

(E.g. Membership in Boards, Editorial Committees, etc. List up to 10)

	Period (MM/YY-MM/YY)	Description
1	2012-2017	Consultancy work for Petroleum Experts (PetEx), Edinburgh, UK
2	1997-2014	Consultancy work for Schlumberger, Clamart France, Aberdeen UK, Houston US
3	2000-today	Reviewer for various international ranked journals (Fluid Phase Equilibria, Computers and Chemical Engineering, International Journal of Oil, Gas and Coal Technology, Simulation Modeling Practice and Theory)

Awards and Recognitions

(list up to 10)

	Year	Description
1	1987	1 st prize in the National Mathematical Olympiad, Greece
2	1987	1 st prize in the Local Mathematical Olympiad, Greece
3	1988	1 st prize in the Local Mathematical Olympiad, Greece
4	1990	1 st prize in the Local Mathematical Olympiad, Greece
5	1995	Ranked 2 nd among 180 students, School of Mechanical Engineering and Aeronautics, University of Patras, class of 1995