CURRICULUM VITAE

Vagelis G. Papadakis

Chemical Engineer, PhD Professor - University of Patras, Greece - 2025 -

PERSONAL

Name Vagelis (Evangelos)

Surname Papadakis Father Name George Mother Name Garyfalia

Date of Birth January 5, 1964

Place of Birth Elika, Municip. of Monemvasia, Laconia, Greece

Nationality Greek

Marital Status Married, 2 children

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University Campus, GR-26500, Rio, Patras, GREECE

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http://scholar.google.gr/citations?user=JwrvSEoAAAAJ&hl=el&oi=ao

EDUCATION - CAREER

1975 - 1981 : Completion of a six-year high school program in the 1st High-

school of Piraeus, Greece (grade: 18.6/20)

1981 - 1986 Completion of a five-year program of study in the Department

of Chemical Engineering, University of Patras-Greece

July 1986 B.S. (Diploma) in Chemical Engineering (grade: 8.26/10) November 1986 Technical Chamber of Greece (TCG) permission for practice

of Chemical Engineer's profession

1986 - 1990 Graduate study towards Ph.D. degree in the Department of

> Chemical Engineering, University of Patras and in the Institute of Chemical Engineering and High Temperature

Chemical Processes (ICE/HT), Patras, Greece

September 1990 PhD degree in Chemical Engineering (grade: excellent) 1990 - 1992 Fulfillment of two years military service requirement in the

Hellenic Navy (Hellenic Naval Academy)

Post-Doctoral Fellow - Researcher of ICE/HT 1992 - 1996

1994 - 1996 Teaching Staff of the Department of Chemical Engineering, University of Patras

1997 - 1999 : Researcher of Danish Technological Institute (DTI)-

Division of Building Technology, Concrete Centre- Denmark

1999 - 2000 : Head of Concrete Technology Laboratory, Division of Research & Quality,

TITAN Cement Co. S.A., Eleusis, Greece

2000 - 2001 : Researcher of National Technical University of Athens,

Department of Chemical Engineering, Athens, Greece

2001 - 2006 : Teaching Staff of University of Patras & University of Ioannina
 2003 - 2007 : R&D Consultant & Research Fellow, Patras Science Park S.A.

4/2007 – 3/2016 : Associate Professor, Department of Environmental and Natural Resources

Management, School of Engineering, University of Patras, Agrinio, Greece

3/2016 – 9/2022 : Professor, Department of Environmental Engineering, School of Engineering,

University of Patras, Greece.

9/2022 – today : Professor in "Physical and Chemical Environmental Processes, Durability

and Sustainability of Constructions", Department of Civil Engineering,

School of Engineering, University of Patras, Greece.

AWARDS & DISTINCTIONS

1982 - 1985 : Greek State Scholarship for undergraduate studies

1986 : Technical Chamber of Greece' Prize for distinction in

undergraduate studies among all Greek Universities

1986 - 1990 : ICE/HT Fellowship for graduate studies

1993 : International Prize (Wason Medal for Materials Research)

of American Concrete Institute (ACI) for the work: Papadakis, V.G., C.G. Vayenas, and M.N. Fardis,

"Fundamental Modeling and Experimental Investigation

of Concrete Carbonation",

ACI Materials Journal, 88(4), 363-373 (1991).

Ref.: Concrete International, **15**(4), 15, April 1993.

TCG Bulletin, 1768, 77, July 12, 1993.

1997 - 1999 : Marie Curie Research Training Grant

Quality of applicant: 38/40 (Average selected 34/40)

2000 - 2001 : Marie Curie Return Grant

► Prof. V.G. Papadakis is ranked among Top 2% Scientists Worldwide by Stanford University, USA

PROFESSIONAL SOCIETIES

- 1. Technical Chamber of Greece Member No. 48740 (1986)
- 2. Greek Association of Chemical Engineers (1086)
- 3. Greek Concrete Department, FIP-CEB-RILEM Member (1988)
- 4. American Concrete Institute (ACI) Member No. 130682 (1993)

- 5. Marie Curie Fellowship Association (MCFA) Member. Nr. 1836 (1997)
- 6. Industrial By-Products Research and Development Association (EVIPAR) Founding member (2001)
- 7. Institute for Innovation & Sustainable Development (AEIPLOUS) Founding member (2009)
- International Union of Laboratories and Experts in Construction Materials, Systems and Structures (RILEM) – Member. Nr. 7730 (2017)
- 9. Institute of Circular Economy & Environment Founding member (2019)

LANGUAGES

- 1. *Greek* Mother Language
- 2. English Very good; advanced study and practice during the Education
- 3. French Good; private study

PARTICIPATION IN COMMITTEES, REVIEWS, BOARDS

- 1. National Representative, 7th Framework Programme, European Committee, Specific programme CAPACITIES "Research for the benefit of SMEs", 2006-2009.
- Expert Evaluator of Research Programmes: CIP-EIP ECO-INNOVATION of European Commission, HORIZON EUROPE Cluster 5: Climate, Energy & Mobility, Greek General Secretariat of Research & Innovation, Hellenic Foundation for Research and Innovation, Qatar National Research Fund (QNRF, and panel member for the programmatic evaluation), FWO Belgium, Austria, Switzerland, Netherlands, Finland, Romania, Poland, Jordan, Cyprus, etc. Coach of European Commission for SME Instrument – H2020.
- 3. Regional Innovation Pole of Western Greece, Coordinator & Member of BoD (2006-2009).
- 4. European Committee CEMBUREAU- Project Group 1.6: "European Concrete Standard EN 206" (TITAN Cement Co. representative, 1999-2000).
- 5. Greek Committee ELOT- TE 51: "Cement" (TITAN Cement Co. repress., 1999-2000).
- 6. Technical Committees of TCG; wording of specifications; TCG expert.
- 7. Organization committee of the 6th CANMET/ACI International Conference on Durability of Concrete, Thessaloniki, June 2003. International Scientific Committee member of the iconBM International Conference on Bio Mass, Florence, Italy, 4-7 May, 2014. International Advisory Committee Member of the 2014 Int'l Conference on Advances in Concrete Construction (ICAC14), 24-29 August 2014, Busan, Korea. Member of the Scientific Committee: 18th Greek Conference for Concrete, TEE, Athens, 29-31/3/2018. Member of the Scientific Committee for the segment Durability, Monitoring and Repair of Structures/ RILEM Spring Convention and International Conference on Sustainable Materials, Systems and Structures, SMSS2019. Member of the Scientific Committee of the Workshop "CO2 storage in concrete" CO2STO-2019, June 2019, Marne la Vallée, France. Chair of the Organization committee of the 8th International Conference on Biorefinery and Biomanufacturing (ICB 2023), Athens, Greece, 23-27 July 2023. Member of the

- organization committee: 9th International Conference on Biorefinery and Biomanufacturing (ICB 2025), Sao Paulo, Brazil, 13-17 January 2025.
- 8. Reviewer of scientific papers of the international journals: ACI Materials Journal, Applied Catalysis B: Environmental, Cement and Concrete Composites, Cement and Concrete Research, Chemical Engineering Science, Construction & Building Materials, IES Journal Part A: Civil & Structural Engineering, Journal of Materials Science, Journal of Hazardous Materials, Materials & Structures, Computers & Concrete, Waste and Biomass Valorization, etc.
- 9. Member of the Editorial Board of the International Scientific Journals: "Advances in Concrete Construction", "Bioresources and Bioprocessing (Springer)"
- 10. Lead Guest Editor of the "International Journal of Corrosion" for the Special Issue on Initiation Mechanisms, Propagation and Consequences of Concrete Reinforcement Corrosion.
- Member of RILEM TC 281-CCC Carbonation of concrete with supplementary cementitious materials and of RILEM TC -GDP – Test methods of gas diffusion in porous media
- 12. Head of the Greek side in the Memorandum of Cooperation between the University of Patras and the Beijing University of Chemical Technology (BUCT).

PROFESSIONAL-RESEARCH-TEACHING EXPERIENCE

Summer 1984 : Practical exercise, Hellenic Refineries of Aspropyrgos

1984 - 1986 : <u>Diploma Thesis</u> work in the subject: "Theoretical and Experimental Investigation

of Macroscopical Behavior of Deep Bed Filters".

Construction of a pilot unit for experimental investigation of deep bed filtration process, applied at the water cleaning and waste water treatment. Mathematical

simulation of the process and computer solution.

Supervisor: Prof. A.C. Payatakes

Dept. of Chemical Engineering, University of Patras

1986 - 1990 : Ph.D. Thesis work in the subject: "Investigation of Physicochemical Processes of

Hardened Cement Paste Carbonation and of the Effects on the Reinforced

Concrete Durability".

Design and construction of experimental apparatuses for investigation of

concrete carbonation and gas effective diffusivity measurement.

Characterization of porous media. Experience in analytical laboratory

apparatuses and methods. Mathematical models development of

physicochemical processes of concrete carbonation and solution by computer.

Recommendations for engineers.

Supervisors: Professors:

C.G. Vayenas, Dept. of Chemical Engineering, Univ. of Patras

M.N. Fardis, Dept. of Civil Engineering, Univ. of Patras

1986 - present : Supervision of Diplomatic works of students (about 60)

of Chemical Engineering Dept., Univ. of Patras

1986 - 1990 : <u>Teaching Assistant</u> for the following courses in the Dept.

of Chemical Engineering, Univ. of Patras:

- 1. "Introduction to Chemical Engineering"
- 2. "Energy Subjects"
- 3. "Chemical Engineering Practical Exercises"

1992 - 1996

<u>Post-doctoral research work</u> in the subject: "Development of Improved Automotive Catalytic Converters".

Design and construction of an experimental apparatus for measurements of catalytic activity and durability of catalytic systems for car exhaust emissions conversion. Experience in a laboratory of catalysis, chemical processes and environmental engineering. Construction and testing of automotive catalytic converter. Study for industrial production.

Supervisors: Professors:

C.G. Vayenas, Dept. of Chemical Engineering, Univ. of Patras X.E. Verykios, Dept. of Chemical Engineering, Univ. of Patras

1994 - 1996

Autonomous Teaching of the course: "Chemical Industries" of the Dept. of Chemical Engineering, Univ. of Patras.

1995 - 1997

 Autonomous Teaching of the course: "Plant Design & Economics for Chemical Engineers" of the Dept. of Chemical Engineering, Univ. of Patras.

1997 - 1999

- Research & Training in DTI Division of Building Technology Concrete Centre (DK) in the following subjects:
 - a. Development of high durability and performance concrete by using pozzolans and optimum material synthesis.
 - b. Prediction of the concrete properties from the knowledge (quality and quantity) of its composition materials.
 - Material assessment during construction of the fixed link across Øresund, connecting Denmark-Sweden, and solution of problems related to the bridge durability.

Cooperation with Technical University of Denmark (DTU), Geological Survey of Denmark (GEUS) large constructive firms (Rambøll, Cowi).

1999 - 2000

Head of Concrete Technology Laboratory, Division of Research & Quality,
TITAN Cement Co. S.A., Elefsis, Greece
Consultancy of Group TITAN clients. Development of quality assurance system
according to EN 45001. Industrial research programs towards new application

for cement and concrete quality improvement.

Researcher of National Technical University of Athens, Department of Chemical Engineering, Athens, Greece

Use of Greek supplementary cementing materials for sustainable building-sector growth, in cooperation with Prof. Stamatis Tsimas

2001 - 2006

2000 - 2001

Teaching the course: "Conceptual Design of Chemical Processes", Department of Chemical Engineering, University of Patras.

"Construction Materials", Department of Materials Science, Un. of Patras.

"Environmental Economics", Department of Environment and Natural

Resources, University of Ioannina

2003 - 2007

R&D Consultant, Patras Science Park S.A.

Consultancy for cement and concrete industry and constructive firms.

Applications in recycling and exploitation of industrial wastes.

Concrete technology, design and durability. Development, promotion and exploitation of Innovation.

2007 - 2022

Professor (2016-9/2022) in *Physical and Chemical Environmental Processes, Durability and Sustainability of Constructions*, (Associate Professor, 2007-2015)

Department of Environmental Engineering, School of Engineering, University of Patras, Agrinio:

- ➤ Teaching the undergraduate courses: "Construction Materials", "Transport Phenomena", "Unit Operations", "Plant Design and Economics", "Environmental Economics", "Materials & Environment" and "Environmental Impact Issues".
- ➤ Teaching the post-graduate courses: "Environmental Impact Issues Specific Environmental Studies Planning & Implementation in Protected Areas" in MSc Programme "Sustainable Management of Protected Areas".
- ➤ Teaching the post-graduate courses: "Green Environmental Technologies" and "Management & Communication in Environmental Projects" in MSc Programme "Applications of Environmental Protection & Management".
- Supervisor of 2 Post-doctoral Works.
- Supervisor of 8 PhD Theses (all completed and presented successfully).
 Member of the supervising committee for more than 15 PhD Theses.
- Supervisor of 15 MSc Theses.
- ➤ Supervisor of more than 100 Diploma Works.
- Member in various Committees of the Department: Professional rights for graduates, Organization of Post-graduate syllabus, Department's rename to Environmental Engineering, Events & Communication, etc., and of the University: Supply of IT equipment, etc. Vice-President of the Department, 2017-18.

9/2022 - today:

Professor in *Physical and Chemical Environmental Processes, Durability and Sustainability of Constructions*, Department of Civil Engineering, Division of Structural Engineering, University of Patras, Greece.

> Teaching the undergraduate courses: "Building Materials", "Principles of Sustainable Construction".

SCIENTIFIC AREAS OF INTEREST

Cement, Concrete and Building Materials Technology: Chemistry of cement and additives, concrete
technology, concrete durability, environmental effect on buildings and constructions, protection and
restoration of building materials and constructions, cement production industries and concrete
production plants consultancy. Extended use of industrial by-products (fly ash, slags, biomass
ashes, etc.) for a sustainable development of the building sector. Environmental cost and life cycle
analysis. Software development and applications.

- 2. Physicochemical Processes & Environment: Mathematical modeling and experimental investigation of physical and chemical processes: Porous media characterization, drying, diffusion, reaction engineering, design and analysis of chemical reactors. Heterogeneous catalysis and environmental management: Catalyst preparation, catalytic reaction kinetics, car catalytic converters, catalyst rejuvenation and recycling, management of gas emissions, environmental control and quality. Recycling & exploitation of by-products. Industrial ecology. Techno-economical analysis. Computer simulation.
- 3. Development & Management of Innovation: Development, promotion and exploitation of Innovation. Innovation and regional development. Creativeness and Innovation. Research on benefit of SMEs. Technology transfer. Enterprise incubators. Social enterprises and urban development. Industrial history and cultural - urban development. Techno-economical analysis and business plan. Creation and growth of clusters. Technology foresight.

RESEARCH PROGRAMS

Hellenic Secret. "Investigation of Physicochemical Processes of Hardened Cement Paste of Res. & Tech. Carbonation and of the Effects on the Reinforced Concrete Durability"

PROPE progr. Organization: University of Patras / Research Committee Start: 1/1987 Project leaders: Prof. M.N. Fardis, Prof. C.G. Vayenas

Position: Researcher End: 6/1990

Hell. Ministry "Investigation of Physicochemical Parameters of Seawater and its Biological of Public Works Pollution Potential on Underwater Construction in the Area of Rion-Antirrion

GSPW/D1 prog. for the Bridge Project"

Organization: Civil Engineering Dept., University of Patras Start: 3/1991

End: 8/1992 Project leader: Prof. I. Antonopoulos

Position: Researcher

Commission of "Development of Automotive Exhaust Catalytic Converters" Organizations: ICE/HT, CERECO S.A., University of Patras, Europ. Commun.

STRIDE progr. Patras Scientific Park S.A. Project leader: Prof. X.E. Verykios Start: 1/1992

End: 12/1993 Position: Researcher and Project Manager

Hellenic Secret. : "Durability of Reinforced Concrete: Environmental Effects and Protection"

of Res. & Tech. Organisation: University of Patras / Research Committee

PENED progr. Project leader: Prof. C.G. Vayenas

Start: 1/1994 Position: Researcher and Project Manager

End: 12/1995

Hellenic Secret. "Optimization, Quality Control and Production of Automotive

of Res. & Tech. **Exhaust Catalytic Converters**"

EPET-II progr. Organizations: ICE/HT, AUT, Citroen- Hellas, CERECO,

Start: 1/1995 ELVO, Patras Scientific Park, Ideal Standard

End: 12/1997 Project leader: Prof. X.E. Verykios

Position: Researcher and Project Manager

EC "Collection and Recycling of Spent Autocatalysts"

DG XI Organizations: TECHNODYNAMICS, INDELEC EUROPE, LIFE progr.

University of Patras, Automobile Import. Assoc.

Start: 12/1994 Project leader: Dr. V.G. Papadakis End: 11/1997 Position: Project Leader & Manager

EC : "Development of High Durability and Performance Concrete by

DG XII using Pozzolans and Optimum Material Synthesis"
TMR progr. Organization: Danish Technological Institute

Start: 2/1997 Project leader: C. Munch-Petersen

End: 1/1999 Position: Researcher and Project Manager

EC : "Use of Supplementary Cementing Materials for Sustainable

DG XII Building-Sector Growth"

IHP-MCIF Organization: National Technical University of Athens

Start: 5/2000 Project leader: Prof. S. Tsimas

End: 5/2001 Position: Researcher and Project Manager

GROWTH: "European Standard Tests to Prevent Alkali Reactions in Aggregates"
2001 Organizations: 25 Industries and Research Institutes across Europe

EC Project Leader: P. Nixon (British Research Establishment)

DG XII Start: 3/2002 End: 3/2006

Position: Researcher (TITAN Cement Co.)

PRAXE : "Production and Exploitation of Structural Fly Ash"
2001 Organization: National Technical University of Athens

GSRT Project leader: Prof. S. Tsimas 1st Phase Start: 6/2002 End: 11/2003

Position: Researcher and Project Manager

CRAFT : "A Cost-Effective System Development for Complete Exploitation

2002 of Olive-mill Wastewater"

EC Organ.: ICEHT, Shielco, Hydro Air Research (I), Papaeconomou SA

DG XII Scientific officer: Dr. C.A. Paraskeva

Coop. Resear. Start: 1/2003 End: 12/2004

Position: Researcher and Project Manager

PRAXE : "Software Development for Concrete Design and

2003 Prediction of Strength and Durability"
 GSRT Organization: Patras Science Park S.A.
 1st Phase Scientific officer: Dr. V.G. Papadakis

Start: 9/2003 End: 2/2005

Position: Researcher and Project Manager

"Follow-up of the Competitiveness - Sector and individual Benchmarking ofinnovative enterprises and enterprises of foods and drinks in the RWG"

YPAN Partners: PSP, KETA

Scientific officer: Dr. V.G. Papadakis

Start: 5/2005 End: 12/2006 Position: Project Manager

EKT "Implement actions of the Hellenic Relay Centre for the Research and

2006 Innovations via the Patras Science Park"

IRC Organization: PSP

Hellenic Scientific officer: Dr. V.G. Papadakis

Start: 3/2006 End: 3/2007

Position: Researcher and Project Manager

International «Investigation for development of high-added value materials

Cooperation form rice husk ash (PYRICE)»

2006 Partners: AGRINO SA, NTUA, Univ. of Porto, Univ. of Dundee

GSRT Scientific officer: Athanasia Kyritsi

Start: 7/2006 End: 12/2007 Position: Project Manager

ARCHIMED «Human Resources and Development Planning on both sides of Ionian Sea - 2006 Partners: PSP SA, RWG, Region Ionian Islands, Agricultural Univ. Athens, University of Lecce, Town of Tricase, Munic. of Sanarica, S&T Park of Sicily

Scientific officer: Prof. P. Groumpos

Start: 6/2006 End: 12/2007

Position: Coordinator of Operational Committee for SMEs

Regional Innovation Pole of Western Greece»

Innovation 47 Partners (SMEs, Universities, Research Centres, etc.)

Pole Coordinating Organization: PSP SA Western Greece Scientific officer: Prof. P. Groumpos Start: 11/2006 End: 11/2008

2006 Start: 11/2006 End: 11/200 GSRT Position: Project Manager

"<u>Urban Nose – Network of Social Enterprises</u>", URBACT II ERDF EU, Coordinator: Municipality of Gela, 12 partners- EU Municipalities, Duration: 6/2008 – 6/2011, Position: Coordinator of Municipality of Agrinio.

"Techno-Economical Design and Pilot Production of Advanced and High-Added Value Materials from Rice Husk Ash (PYRICE II)", CIP-EIP-Eco-Innovation-2008 EU, Coordinator: AGRINO EVGE Pistiolas SA, Duration: 7/2009 - 7/2012, Position: Manager & Scientific Responsible.

"Sustainable Innovation and Treatment in Industrial Waste Water Clusters (STinno)", FP7-Regions-2009-1 EU, Partners: Lahti Science and Business Park, Päijät-Häme, (Finland) (Coordinator), Regional Council of Päijät-Häme (FI), Lahti University Consortium/ Lappeenranta University of Technology, Lahti University Consortium/ Helsinki University of Technology, Regional Council of Kalmar (Sweden), University of Kalmar or Linköping (Sweden), Sustainable Sweden South East (Sweden), Patras Science Park (Greece), Regional Council of Western Greece, Foundation of Research and Technology of Hellas / ICE-HT, Italy: International Association of Mediterranean Agro-Industrial Waste, United Kingdom: N8 Water Group/Envirolink, Duration: 11/2009 - 11/2012, Position: Coordinator of the Greek side.

"Increasing the Regional Competitiveness and Economic Growth through the R&TD&I on Sustainable Water Management (SWAM)", FP7-Regions-2009-1 EU, Partners: Directorate-General for Universities and Science Policy- Region of Murcia, Spain (Coordinator), University of Murcia (Spain), Technological Centre for Energy and Environment (Spain), Machinery Manufacturers Association -Region of Murcia (Spain), Eastern-Galilee Municipalities Association (Israel), Galilee Technology Centre (Israel), Galilee Metal Companies Association (Israel), Patras Science Park (Greece), Regional Council of Western Greece, FORTH / ICE-HT (Greece), ENBIO Ltd (Greece), Duration: 3/2010 - 6/2012, Position: Coordinator of the Greek side.

"Architecture of Totalitarian Regimes of the XX° Century in Urban Management (ATRIUM)", South-East Europe SEE Transnational Cooperation Programme EU, Φορείς: Municipality of Forlì/Italy (Coordinator), Province of Forlì-Cesena/Italy, University of Ljubljana, Faculty of Architecture, Ljubljana/Slovenia, Municipality of Velenje/Slovenia, The National Institute of Immovable Cultural Heritage, Sofia/Bulgaria, Municipality of Dimitrovgrad/Bulgaria, Szechenyi Istvan University, Gyor/Hungary, Local Government of Gyor with County Rank/Hungary, Institute of Construction and Architecture of the Slovak Academy of Sciences, Bratislava/Slovakia, Metropolitanate of Moldavia and Bukovina – Archidiocese of Iasi/Romania, Institute for Innovation & Sustainable Development AEIPLOUS, Patras/Greece, Cultural & Educational Technology Institute ATHENA - Research & Innovation Centre in Information, Communication and Knowledge Technologies, Xhanti/Greece, Town of Labin/Croatia, Fund of microregional tourism cluster Subotica-Palic/Serbia, Municipality of Tirana/Albania, Rotor – organization for development of tourism of region Doboj/Bosnia-Herzegovina, Ministry of Culture, Sofia/Bulgaria, Municipality of Rasa/Croatia. Duration: 1/2011 - 9/2013, Position: Coordinator of the Greek side.

"Development and Implementation of Decentralised Solar-Energy-Related Innovative Technologies for Public Buildings, in the Mediterranean Basin Countries (DIDSOLIT-PB)", ENPI CBCMED, EU

Programme, Parners: Autonomous University of Barcelona, Spain (Coordinator), Institute for Innovation & Sustainable Development- AEIPLOUS (Greece), Egyptian Association for Energy and Environment (Egypt), Al-Balqa' Applied University (Jordan), Alexandria University (Egypt), Mediterranean Agronomic Institute of Chania (Greece), Eco-System Europa SL (Spain). Duration: 12/2013 - 12/2015, Position: Coordinator of the Greek side.

"Collaborative Digitization of Natural and Cultural Heritage (CD-ETA)", Interreg Europe, EU Programme, Φορείς: Euroregion PlevenOlt, Bulgaria (Coordinator), Harghita County Council (Romania), University of Patras (Greece), ASSOCIATION OF MUNICIPALITIES OF THE RIBERA ALTA REGION (Spain), FOUNDATION FOR RESEARCH AND INNOVATION (Italy), Regional Development Agency of Gorenjska (Slovenia), Foundation Saint Mary the Royal of Historic Heritage (Spain), Estonian War Museum General Laidoner Museum (Estonia). Duration: 4/2016 - 4/2021, Position: Coordinator of the Greek side.

"Integrated management and exploitation of multi-dispersed agricultural residues – application to energy production (SYNAGRON)", Greek-China bilateral R&D Cooperation, GSRT. Partners: University of Patras – Dept of Environmental Engineering (Coordinator), University of Western Macedonia – Chemical Engineering Dept, SIRMET Tech SA, Beijing University of Chemical Technology – BUCT (China), Beijing United Pioneer Environmental Engineering Co. Ltd. (China), Nanjing Benran Environmental Technology Co. Ltd. (China), Khalifa University of Science and Technology (United Arabian Emirates) Duration: 14/10/2019 – 13/10/2022, Position: Coordinator of the Greek side.

"Circular Innovation and Resilient City Labs in the Adrion Region (CIRCLE)", INTERREG V-B Adriatic-Ionian ADRION Programme 2014-2020. Partners: Municipality of Forlì, Italy (Coordinator), Romagna Tech (Italy), School Center Velenje (Slovenia), RDA of Northern Primorska Ltd. Nova Gorica (Slovenia), Regional development agency Međimurje REDEA Ltd. (Croatia), Energo-data (Croatia), Anatoliki S.A Development Agency of Eastern Thessaloniki's Local Authorities (Greece), Institute for Innovation & Sustainable Development- AEIPLOUS (Greece), Environmental Protection and Energy Efficiency Fund of the Republic of Srpska (Bosnia-Herzegovina), Municipality of Laktasi (Bosnia-Herzegovina), Faculty of Applied Ecology - Futura (Serbia), Regional Agency for Socio – Economic Development – Banat Ltd (Serbia), Municipality of Ulcinj (Montenegro), Municipality of Tirana (Albania). Duration: 1/2/2020 – 31/7/2022, Position: Regional Project Manager.

"Circular design: Skills for future people (CIRCES)", ERASMUS+, EU Programme, KA220 - VET - Cooperation partnerships in vocational education and training. Organisations: Romagna Tech, Italy (Coordinator), Pannon Business Network Association (Hungary), Argo Srl (Italy), Liceul Tehnologic "Valeriu Braniste" (Romania), Institute for Innovation & Sustainable Development- AEIPLOUS (Greece), University of Bologna (Italy), Predict CSD Consultancy (Romania). Duration: 1/11/2022 – 30/4/2025, Position: Local Project Coordinator.

"ADRION transnational master in renewable energy (TRAINEE)", INTERREG V-B Adriatic-Ionian ADRION Program 2014-2020. Bodies: University of Patras, Department of Chemical Engineering, Greece (Coordinator), Alma Mater Studiorum University of Bologna, Department of Electrical, Electronic and Information Engineering, (Italy), IUAV University of Venice, Department of Architecture and Arts (Italy), University of Zagreb, Faculty of Electrical Engineering and Computing (Croatia), Algebra University College (Croatia), University of Novi Sad, Faculty of Technical Science (Serbia), International University of Sarajevo (Bosnia-Herzegovina), University of Tirana, Department of Industrial Chemistry (Albania), Green Technologies LTD (Greece), Energo-data (Croatia), Solar Info Community srl (Italy). Duration: 1/1/2023 – 30/9/2023, Position: Project Quality Manager.

"SMEs & European Original Geographical Indications – (SMEOrigin)", Interreg Europe, EU Programme, Partners: Styrian Economic Development Corporation (Austria, Coordinator), Stara Zagora Regional Economic Development Agency (Bulgaria), Opolskie Centre for Economy Development/ Opolskie Voivodeship, (Poland), Savonlinna Development Services, (Finland), University of Patras (Greece), Municipality of Calasparra (Spain), INTERBIO Aquitaine/ Limousin/ Poitou-Charentes (France). Duration: 3/2023 - 2/2027. Position: Principal Investigator & Local Project Coordinator.

"Tackling depopulation challenges to improve environmental resilience in rural areas (Down-to-Earth)", Interreg Europe, EU Programme, Partners: Galician Rural Development Agency (Spain, Coordinator), Fundación Juana de Vega (Spain), Municipality of Campobasso (Italy), National Meteorological Administration (Romania), Neckar-Alb Regional Association (Germany), University of Patras (Greece), ISOCARP Institute (Netherlands, as advisory partner), BSC, Business support centre Ltd., Kranj (Slovenia). Duration: 3/2023 - 2/2027. Position: Principal Investigator & Local Project Coordinator.

"Scaling up eWASTE circular economy in Adrion region (CIRCLEWASTE)", INTERREG VI-B IPA Adriatic-Ionian ADRION Programme 2021-2027. Partners: Association of Municipalities ZOS, Slovenia, (Coordinator), Reuse Centre (Slovenia), Agency for Sustainable Development (Italy), Institute for Innovation & Sustainable Development (Greece), Regional Development Agency (Croatia), LINK Entrepeneurship Centre - (Bosnia-Herzegovina), UET Centre (Albania), Municipality of Mirdita (Albania) Municipality of Kicevo (Noth Macedonia), Association for Youth Development – EYA (Noth Macedonia), Zero Waste Montenegro (Montenegro), Municipality of Tuzi (Montenegro). Duration: 1/9/2024 – 31/8/2027. Position: Local Project Coordinator.

"The European University of Islands, Ports and Coastal Territories (EUNICoast)", European Universities – Development of deep institutional transnational cooperation (ERASMUS-EDU-2024-EUR-UNIV-1). Partners: Université Le Havre Normandie (Συντονιστής, France), Aland University of Applied Sciences (Finland), Burgas Free University (Bulgaria), EMUNI University (Slovenia), Université des Antilles (France), University of Sassari (Italy), University of the Azores (Portugal), University of the Balearic Islands (Spain), University of Dubrovnik (Croatia), University of Patras (Greece), Stralsund University of Applied Sciences (Germany), West Pomeranian University of Technology in Szczecin (Poland). Διάρκεια: 1/11/2024 – 31/10/2028, Position: Project Team Member.

RESEARCH PUBLICATIONS AND PRESENTATIONS

A. Publications in International Journals

- A1. Papadakis, V.G., C.G. Vayenas, and M.N. Fardis, "A reaction engineering approach to the problem of concrete carbonation", *American Institute of Chemical Engineers Journal (AIChE J.)*, **35**(10), 1639-1650 (1989).
- A2. Papadakis, V.G., C.G. Vayenas, and M.N. Fardis, "Physical and chemical characteristics affecting the durability of concrete", *American Concrete Institute Materials Journal (ACI Mat. J.)*, **88**(2), 186-196 (1991).
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B. Patents

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- D91. Aravani, V.P., V.G. Papadakis, "Technoeconomic assessment for the viable exploitation of Western Greece' biomass residues by an innovative pyrolysis-anaerobic digestion processing plant", 10th International Conference on Sustainable Solid Waste Management, Chania, Greece, 21-24 June 2023.
- D92. Ainatzoglou, M., Aravani, V.P., V.G. Papadakis, "On site conversion of olive tree prunings to biochar and environmental benefits", 10th International Conference on Sustainable Solid Waste Management, Chania, Greece, 21-24 June 2023.
- D93. Aravani, V.P., V.G. Papadakis, "Exploitation of agricultural residues in the context of circular economy technoeconomic and environmental assessment", 8th International Conference on Biorefinery and Biomanufacturing (ICB 2023), Athens, Greece, 23-27 July 2023.
- D94. Papadakis, V.G., "Agricultural residues can contribute significantly to meeting energy needs Technical, environmental and economic perspectives", *keynote speaker*, 9th International Conference on Biorefinery and Biomanufacturing (ICB 2025), Sao Paulo, Brazil, 13-17 January 2025.

E. Presentations in Panhellenic Conferences with Reviewers (in Greek)

66 presentations

F. Invited speaker (selections among 92)

- 1. "Mathematical Modeling and Experimental Investigation of Concrete Carbonation", XXth Schientific Conference of the Youth Researchers, Higher Institute of Chemical Technology, Sofia, Bulgaria, 9-5-1989.
- "Development of High Durability and Performance Concrete by using Pozzolans and Optimum Material Synthesis" and "The State of the Cement and Concrete in Greece: Production & Research", Danish Technological Institute (DTI), Division of Building Technology, Taastrup, Denmark, 28-2-1997.
- 3. "Experimental Investigation and Theoretical Modeling of Pozzolanic Activity in Concrete", DTI, Division of Building Technology, Taastrup, Denmark, 26-5-1998.
- 4. "Utilization of Lignite Fly Ash in Construction", RWE Energie Aktiengesellschaft, Essen, Germany, 16-12-1998.
- 5. "Supplementary Cementing Materials in Concrete", Danish Technological Institute, Division of Building Technology, Taastrup, Denmark, 10-2-1999.
- 6. "The PANELEA project: A cost-effective system development for complete exploitation of olive mill wastewater", Institute of Water Research, University of Granada, Granada, Spain, 10-12-2004.
- 7. «Technology Transfer & Innovation Management», FP6 CODESNET meeting, Shannon Development, University of Limerick, Ireland 8-3-2007.
- 8. «Μικρομεσαίες Επιχειρήσεις Ανάπτυξη μέσω Έρευνας & Καινοτομίας», Ημερίδα «Έρευνα προς Όφελος των Μικρομεσαίων Επιχειρήσεων στο 7º Πρόγραμμα Πλαίσιο Έρευνας και Τεχνολογικής Ανάπτυξης στην ΕΕ», ΕΟΜΜΕΧ, Αθήνα 21-6-2007.
- 9. «SMEs sector in Western Greece, Epirus, Puglia and Sicily», HUREDEPIS project meeting, Science & Technology Park of Sicily, Catania, Italy 16-11-2007.
- 10. «WaterTech Cluster of Western Greece Regional Innovation Pole of Western Greece», 1st STinno project meeting, Marrakesh, Morocco, 12-1-2010.
- 11. «WaterTech Cluster of Western Greece Regional Innovation Pole of Western Greece», 1st SWAM project meeting, Murcia, Spain, 11-3-2010.
- 12. «Tools and methods system for the provision *of* social economy services», 3rd Transnational Meeting of the project *URBAN N.O.S.E. Network of Social Enterprises*, URBACT II, Koropi, Athens, 15-4-2010.
- 13. «The research-driven WaterTech cluster of Western Greece», 2nd SWAM project meeting, Patras, 7-7-2010.
- 14. «Animating and sensitising the territory upon Social Economy», 4th Transnational Meeting of the project *URBAN N.O.S.E. Network of Social Enterprises*, URBACT II, Grenoble, France, 10-9-2010.
- 15. «Encouraging entrepreneurs & education on water technology Western Greece», 3rd SWAM project meeting, Kiryat-Shmona, Galilee, Israel, 18-1-2011.
- 16. «Water technologies & water clusters challenges Case-studies in Western Greece», 3rd SWAM project meeting, Kiryat-Shmona, Galilee, Israel, 18-1-2011.
- 17. «Competitiveness and research analysis of WaterTech research-driven clusters», 4th SWAM project meeting, Patras, 30-5-2011.
- 18. «International overview of cluster policies», 3rd STinno project meeting, Lahti, Finland 16-7-2011.

- 19. «Architecture of Totalitarian Regimes of the XX Century in Urban Management Cases of the Region of Western Greece», ATRIUM Transnational Meeting, Iasi, Romania, 15-11-2011.
- 20. «Policies for the support of regional research-driven clusters Impacts & Conclusions», 4th STinno project meeting, Terni, Italy 13-12-2011.
- 21. «High-added value materials production from Olive Mill Wastewater A technical and economical optimization», Horizon 2020 Capacity Building/Mediterranean Environment Programme, "Best environmental practices in olive mill waste management and new technologies", Regional training: 19-21 March 2012, Athens.
- 22. «Presentation of project PYRICE II Techno-Economical Design and Pilot Production of Advanced and High-Added Value Materials from Rice Husk Ash», Eco-Innovation Sustainable Concrete Workshop, European Commission, 3 May 2012, Brussels.
- 23. «PYRICE II project: Overall review, results and achievements», PYRICE II Final Review, Agrino Plant, 6-6-2012, Sindos, Thessaloniki.
- 24. Special Guest Speaker in Scientific Coffee, «Ideas and perspectives for research cooperation in the future», Technical Research Center of Finland VTT, 9 November 2012, Otaniemi/ Espoo, Finland.
- 25. Special Guest Speaker in Lecture, «A balanced approach between sustainable and durable design of reinforced-concrete structures The way towards green durability», Aalto University, 9 November 2012, Otaniemi/ Espoo, Finland.
- 26. «Balanced approach between sustainable and durable design of buildings», INNOVA NET winter school, University of Patras, 31 March 2014, Patras.
- 27. «A cost-effective system development for complete exploitation of olive mill wastewater» & «Techno-Economical Design and Pilot Production of Advanced and High-Added Value Materials from Rice Husk Ash», The Belt & Road Visiting Scholar Program, Beijing University of Chemical Technology, 5 June 2018, Beijing, China.
- 28. Special Guest Speaker in Lecture, «A balanced approach between sustainable and durable design of reinforced concrete structures The way towards Green Durability», University of New South Wales (UNSW), School of Civil & Environmental Engineering, 11 July 2019, Sydney, Australia.
- 29. «Integrated management and exploitation of multi-dispersed agricultural residues application to energy production», Regional Growth Conference 2021, Summer Workshop, Organization Newspaper PELOPONNESE, Patras, 5/6/2021.
- 30. «Resilience to Climate Change, Natural Hazards and Pandemic Risks Biosafety», Speech at Panel 2, 2nd International Scientific Conference TMM_CH "Transdisciplinary Multispectral Modelling and Cooperation for the preservation of Cultural Heritage Rebranding the World in Crisis through Culture", Athens, 13/12/2021.
- 31. «Project SYNAGRON– Experimental investigation of the anaerobic digestion process using various Greek biodegradable agricultural residues», Online lectures to students of Beijing University of Chemical Technology, 9 December 2022.
- 32. «Industrial ecology for green energy production and sustainable construction», Academic Lecture, 16 October 2024, Beijing, China.

G. Selected Reports, Theses, and Books (among 71)

- 1. Papadakis, V.G. and C.A. Paraskeva, "Theoretical and Experimental Investigation of Macroscopical Behavior of Deep Bed Filters", *Diploma Thesis*, Chemical Engineering Dept., University of Patras, p. 156, Patras 1986.
- 2. Papadakis, V.G., "Investigation of Physicochemical Processes of Hardened Cement Paste Carbonation and of the Effects on the Reinforced Concrete Durability", *Ph.D. Thesis*, Chemical Engineering Dept., University of Patras, p. 240, Patras 1990.

- 3. Papadakis, V.G., "Aspects of Fly Ashes and their Utilization in the Constructions", *Report* to Public Power Corporation and to Association of Civil Engineers of Greece, p. 38, Patras 1992.
- 4. Antonopoulos, I., C. Papageorgiou, V.G. Papadakis, P. Nikolaidis, V. Speliadis, and S. Psara, "Investigation of Physicochemical Parameters of Seawater and its Biological Pollution Potential on Underwater Constuction in the Area of Rion-Antirrion for the Bridge Project", *Final Report* to Ministry of Public Works/ GSPW/D1, University of Patras, p. 240, Patras 1992.
- 5. Papadakis, V.G., "Environmental Effects on the Buildings", in the *Handbook* of ACEG: "Restoration of Monuments and Buildings of Special Significance", p. 40, Athens 1993.
- 6. Verykios, X.E., C.G. Vayenas, I.V. Yentekakis, V.G. Papadakis and C.A. Pliangos, "Development of Improved Automotive Catalytic Converters", *Final Report* to GSRT, ICE/HT, Patras 1994.
- 7. Papadakis, V.G. and D.N. Spartinos, "Special Chapters of Chemical Technology", *Instructive book*, Chemical Engineering Dept., University of Patras, p. 180, Patras 1994.
- 8. Papadakis, V.G., F. Alexandrou, C.G. Vayenas, and X.E. Verykios, "Optimization, Quality Control and Production of Automotive Exhaust Catalytic Converters", *Report* to GSRT, ICE/HT, Patras 1996.
- Papadakis, V.G., "Development of New Techniques/ Apparatuses for the Assessment of Performance and Durability of Building Materials", Report on Research Feasibility Work, SMT4-CT97-5024, European Commission DG XII, December 1997.
- 10. Papadakis, V.G., "Prediction of the Øresund Link Service Life Regarding Chloride-Induced Depassivation of Reinforcing Bars"; *Technical Note* to Øresund-konsortiet, Danish Technological Institute, Taastrup, November 1998.
- 11. Papadakis, V.G., "Estimation of Concrete Service Lifetime- A Practical Guide"; *Technical Note*, Danish Technological Institute, Taastrup, December 1998.
- 12. Papadakis, V.G., M.E. Glavind, and M.T. Jepsen, "Use of Petcoke Fly Ash in Concrete"; *Report* to SK Power Company, Danish Technological Institute, Taastrup, December 1998 (in Danish).
- 13. Papadakis, V.G., "Supplementary Cementing Materials in Concrete- Activity, Durability, and Planning"; *Final Report* to European Commission, Project No. ERBFMBICT961387, Danish Technological Institute, Taastrup, January 1999.
- 14. Papadakis, V.G. and E.J. Pedersen, "Service Lifetime Prediction of Concrete used for Foundation. Case Study: Construction Christiansbro- Erhverv 2"; *Technical Note* to NCC Rasmussen & Schiøtz, Danish Technological Institute, Taastrup, February 1999.
- 15. Papadakis, V.G. and B. Matthiesen, "Computer Program for Chloride Intrusion in Concrete"; *Technical Note*, Danish Technological Institute, Taastrup, February 1999.
- 16. Papadakis, V.G., "Use of Supplementary Cementing Materials for Sustainable Building-Sector Growth"; *Final Report* to European Commission, Project No. HPMF-CT-1999-00370, National Technical University of Athens, Athens, June 2001.
- 17. Papadakis, V.G., C.A. Paraskeva, D. Kanellopolulou, E. Tsarouchi, P. Koutsoukos, M. Villa, S. Pajardi, C., Nakos, G. Bafiti, "Olive Mill Wastewater: Characterization and Treatment", *Report to EC for the project PANELEA QLK5-CT-2002-71666*, July 2003.
- 18. Papadakis, V.G., T. Benetatos, G. Karelas, C. Paraskeva, S. Patti, D. Stefano, and A. Villa, "Study for the Evaluation of Existing and Planning Regional Capabilities and Practices on the Designing of SME Policies", HUREDEPIS project, Archimed, Interreg Programme, October 2007.
- 19. Arvaniti, E.N., M.P. Efstathiou, and V.G. Papadakis, «Regional cluster analysis interim report», SWAM Project, FP7 EU Programme, Patras, August 2010.
- 20. Arvaniti, E.N., M.P. Efstathiou, and V.G. Papadakis, «Regional cluster mapping interim report», SWAM Project, FP7 EU Programme, Patras, September 2010.
- 21. Efstathiou, M.P., E.N. Arvaniti, and V.G. Papadakis, «Identification & evaluation of regional research-driven clusters», STinno Project, FP7 EU Programme, Patras, November 2010.
- 22. Arvaniti, E.N., M.P. Efstathiou, and V.G. Papadakis, «Mapping regional research agendas», STinno Project, FP7 EU Programme, Patras, November 2010.

- 23. Arvaniti, E.N., M.P. Efstathiou, and V.G. Papadakis, «EU policies for regional research-driven clusters», STinno Project, FP7 EU Programme, Patras, November 2010.
- 24. Efstathiou, M.P., E.N. Arvaniti, and V.G. Papadakis, «Report on market research, analysis and approach for the production of advanced and high-added value materials from rice husk ash», PYRICE II Project, CIP ECO-INNOVATION Programme, Patras, December 2010.
- 25. Arvaniti, E.N., M.P. Efstathiou, and V.G. Papadakis, «International overview for cluster policies», STinno Project, FP7 EU Programme, Patras, June 2011.
- 26. Arvaniti, E.N., M.P. Efstathiou, and V.G. Papadakis, «Regional competitiveness analysis final report», SWAM Project, FP7 EU Programme, Patras, September 2011.
- 27. Efstathiou, M.P. and V.G. Papadakis, «Technoeconomical study of production of advanced and high-added value materials from rice husk ash», PYRICE II Project, CIP ECO-INNOVATION Programme, Patras, September 2011.
- 28. Papadakis, V.G., M.P. Efstathiou, and L. Litos «Technoeconomical design and pilot production of advanced and high-added value materials from rice husk ash», *Final Report to EACI EU*, PYRICE II Project, CIP ECO-INNOVATION Programme, Patras, September 2012.
- 29. Efstathiou, M.P., E.N. Arvaniti, and V.G. Papadakis, «Architecture of Totalitarian Regimes of the XX Century in Urban Management Cases of the Region of Western Greece: Identification, Digitalization, Durability Problems», ATRIUM Project, SEE Programme, Patras, December 2012.
- 30. Papadakis, V.G. «Doha Metro- Gold Line: Concrete Service Life Estimation», *Report to* Joint Venture ALYSJ, Doha, Qatar, April 2015.

Science Citation Index (10/2025):

Citations (Exclude self citations): Google Scholar: 11,000 (approx.), Scopus: 7000 (approx.)

h-index: Google Scholar: 42, Scopus: 39