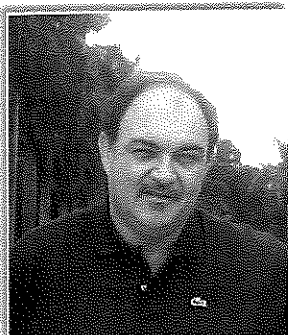


Panagiotis Tsiakaras
Professor & Head
Catalysis, Electrocatalysis & Fuel Cells Engineering



Professor Tsiakaras received his 5-years Diploma on 1984 and his 2-years MSc on 1987, both from the Department of Industrial Chemistry - University of Messina (Italy).

On 1992 he awarded with the Eurodoct price and the same year he defended his PhD at the Department of Chemical Engineering of the University of Patras (Greece). Two years later (1994), after his post-doctoral studies in Louvain-la-Neuve, Belgium, Twente, Holland and Aristotle University of Thessaloniki, he has been elected at the Department of Mechanical Engineering-University of Thessaly.

Prof. Tsiakaras received for his studies Scholarships from Greek, Italian & Belgium research institutions.

On 1996 he founded the laboratory of alternative energy conversion systems and since 2012 is the Supervisor of the Laboratory of *Electrochemical Devices based on Solid Oxide Proton Electrolytes* at the Institute of High Temperature Electrochemistry of the Russian Academy of Sciences, Ekaterinburg Russian Federation.

On 2017 he was awarded for his overall scientific work with Ecopolis price.

He has been visiting Professor: i) at the Department of Industrial Chemistry Materials Engineering of University of Messina-Italy (period of May-July of 2010); ii) at the National Council of Research (CNR-TAE), Italy (period April-June 2014) and iii) at the department of Chemical Engineering of the Ural Federal University, Russia (period of June - September 2017). He fluently speaks and writes English and Italian.

Panagiotis E. Tsiakaras is currently: i) Professor of Catalysis, Electrocatalysis and Fuel Cells Engineering, Mechanical Engineering University of Thessaly Greece (MENG-UTH), ii) Director of the Laboratory of *Alternative Energy Conversion Systems* (MENG-UTH) (http://www.mie.uth.gr/n_labs_main.asp?id=4), iii) Supervisor of the Laboratory of *Electrochemical Devices based on Solid Oxide Proton Electrolytes* at the Institute of High Temperature Electrochemistry, Russian Academy of Sciences, Ekaterinburg, Russia. (http://www.ihte.uran.ru/?page_id=3787), and iv) Academic Supervisor of the Laboratory of *Materials and Devices for Electrochemical Power Industry*, Ural Federal University, Russia.

The research interests of Professor Tsiakaras are focused in the fields of: i) catalytic and electrocatalytic processes, ii) solid state electrochemistry, iii) electrochemical devices (fuel cells, electrolyzers, sensors, supercapacitors, electrochemical reactors etc.) design and development, iv) Direct Ethanol Fuel Cells for energy production and v) Catalysis for hydrogen production from renewable fuels. The last two decades, Prof. Tsiakaras received for his research activities more than 6.000.000\$ from national and international competitive research programmes.

Teaching/Tutoring: Prof. Tsiakaras teaches since 1994: i) in the graduate program of Mechanical Engineering Department the courses of *chemistry for engineers* and *advanced energy conversion systems*, and ii) in the postgraduate program the courses of *chemical reaction engineering* and *engineering of electrochemical processes*. Up today, Professor Tsiakaras has supervised (at the Department of Mechanical Engineering-UTH) 20 PhD students. Few of them (6) are Professors in other Universities and few (6) research associates and high ranked executives. Moreover he has supervised 40 MSc and more than 100 graduate students. He was invited to teach in international schools and to present his research work in more than 100 conferences, universities, institutes and companies.

Published Work: He has authored and co-authored of 180 works in peer reviewed journals and he participated in 180 international congresses. Moreover, he published chapters in books, monographs and patents. (http://scholar.google.gr/citations?hl=el&user=Pi-IS4AAAAAJ&view_op=list_works&sortby=pubdate).

Membership/Organizations: Prof. Tsiakaras is executive member of the Greek Platform for Hydrogen & Fuel Cells as well as er of the Greek Platform of Biofuels, the Hellenic Association for Heat and Power Cogeneration and the Hellenic Catalysis Network. Moreover, he is member of the following international societies: ACS, Solid State Ionics, Electrochemical Society (ISE), Ionics, ASME, and Greek Society of Catalysis & Greek Society of Hydrogen. He is also member of the editorial board (guest managing editor) of the Journal of Renewable Energy and active reviewer of more than 60 international scientific journals including Nature, Applied Catalysis A General, Applied Catalysis B Environmental, Journal of Catalysis, Electrochimica Acta, etc. Currently, he is also member of the companies Franco Cell (France), Solid Cell (USA).

Administration: Professor Tsiakaras served at various administrative positions in the Department of Mechanical Engineering and the University of Thessaly (such as: Chair of the Department, Director of the post graduate program, since 2009 he is in charge of the Career Office of UTH, etc.). He organized or was member of organizing committees of scientific conferences in National and International Conferences.

Selected Publications:

1. D. Medvedev, J. Lyagaeva, E. Gorbova, A. Demin, P Tsiakaras, Advanced materials for SOFC application: Strategies for the development of highly conductive and stable solid oxide proton electrolytes. *Progress in Materials Science* 2016, 75, 38-79.
2. D. Medvedev, A. Demin, A. Podias, P. Tsiakaras. BaCeO₃: materials development, properties and application. *Progress in Materials Science*. 2014, 60, 72-129.
3. A. Brouzgou, S. Song and P. Tsiakaras, Low and non-platinum electrocatalysts for PEMFCs: current status, challenges and prospects, *Appl. Catal. B. Environm.*, 2012, 127, 371-388.
4. P. Tsiakaras, PtM/C (M= Sn, Ru, Pd, W) based anode direct ethanol-PEMFCs: structural characteristics and cell performance. *Journal of Power Sources* 2007, 171 (1), 107-112.
5. S. Song and P. Tsiakaras, Recent progress in direct ethanol proton exchange membrane fuel cells (DE-PEMFCs), *Appl. Catal. B: Environm.*, 2006, 63, (3-4) 187-193

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