

**Sotiris Fanourgiakis**

**Environmental Engineer M.Eng – Energy and Environmental Chemical Technologies, M.Sc,  
Technical University of Crete**

**PERSONAL INFORMATION**

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Home address: 17, Pentelis Avenue, Melissia 15127, Attica, Greece  
Tel: +302155359984, mobile:+306973916706  
E-mail: sfanourgiakis@gmail.com  
Date of Birth: 23rd November 1985  
Nationality: Greek  
Military Service: Completed

**EDUCATION**

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11/2012-12/2015 **M.Sc in Energy and Environmental Chemical Technologies, General Department, Technical University of Crete (TUC). (M.Sc, 90 ECTS)**  
*Master thesis: "Biogas Reforming on advanced catalytic systems"*  
Experimental dissertation conducted at the **Laboratory of Physical Chemistry and Chemical Processes, Technical University of Crete.**  
Catalyst study aimed at highlighting those catalysts that exhibit high performance and resistance to carbon deposition, which would degrade their performance over time during the dry reforming of CH<sub>4</sub>. CH<sub>4</sub>+CO<sub>2</sub> → 2CO+2H<sub>2</sub> (ΔH°=240kj/mol)  
**Supervisor Professor: Ioannis Gentekakis**

9/2003-12/2011 **Diploma in Environmental Engineering. School of Environmental Engineering, Technical University of Crete (TUC). (M.Eng 300 ECTS)**  
*Diploma thesis: "Simultaneous removal of estrogen and pathogens from secondary treatment water by solar photocatalytic treatment."*  
Experimental dissertation conducted at the **Laboratory of Chemical Processes and Wastewater Treatment** and the **Laboratory of Environmental Microbiology.**  
Increase the efficiency of solar photocatalytic process in the presence of TiO<sub>2</sub> catalyst in the form of suspension, for the removal of the hormone 17α-ethinyl estradiol (EE2) and bacteria Escherichia coli from water and waste water from the outlet of the secondary treatment of wastewater treatment plant of the Municipality Chania.  
**Supervisor Professor: D. Mantzavinos**

**PUBLICATIONS**

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2014 **Sotiris Fanourgiakis, Zacharias Frontistis, Efthalia Chatzisyneon, Danae Venieri, Dionissios Mantzavinos, "Simultaneous removal of estrogens and pathogens from secondary treated wastewater by solar photocatalytic treatment", Global NEST Journal, Vol 16, No 3, pp 543-552, 2014**

**ANNOUNCEMENTS IN CONFERENCES**

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2011 **Sotiris Fanourgiakis, Zacharias Frontistis, Efthalia Chatzisyneon, Danae Venieri, Dionissios Mantzavinos, « Removal of estrogens and pathogens from secondary treated wastewater by solar photocatalytic treatment"**  
16<sup>th</sup> International Symposium on Environmental Pollution and its Impact on Life in the Mediterranean Region, Ioannina, Sept 2011.(Poster )

2015 *Dry reforming of biogas: Effect of the support on the catalytic behavior of supported mono- and bi-metallic Ir-based catalysts.* G. Goula, P. Panagiotopoulou, A. Kasioni, **S. Fanourgiakis**, G. Palioudaki, Ch. Papageorgiou, E. Diamadopoulos, I.V. Yenteklakidis, D.

## EXPERIENCE

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### *Work Experience*

- 10/2021- **Laboratory of Physical Chemistry & Chemical Processes**, Technical University of Crete, 73100 Chania, Crete, Greece  
Participation in the project Eco-Ethylene: A novel process for the efficient and eco-friendly vaporization of biogas and CO<sub>2</sub> emissions: Complete conversion to ethylene. Project Code: T1EΔK-000782, Action: Research – Create – Innovate, EPAnEK 2014 – 2020, Scientific director: Professor Ioannis Yentekakis
- Subject: contribution to actions related to the scientific / scientific support of the project and experimental studies for the implementation of its physical object, the creation of reports and the writing of reports related to the results of the project.
- 04/2018- **Adens SA**, Vas Sofias Av 98a, Engineering consultants, Enviro  
10/2021 Providing engineering services for:
- Environmental Impact Studies
  - Field work
- 09/2017- **Geodi S.A.**
- 07/2016- **EKO gas station**  
07/2017
- 10/09- 6/2010 **"ERMIS MELETITIKI"**, Chania, A. Papandreou 5 tel: 282 104 3600) - Environmental and developmental studies. (Manager of the project Mr. K. Protopapadakis)
- Preparation of environmental impact studies.

### *Practical experience on the subject*

- 7/2008 **Sewage treatment plant of Thessaloniki, Sindos**
- Training on the Biological installations and Process of Sewage Effluents

## TECHNICAL SKILLS

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### *Digital competence*

- MS Office
- Matlab , Fortran.

### *Laboratory experience*

- Analytical and Microbiological Techniques
- Liquid Chromatography of High Performance (HPLC)
- Gas Chromatography
- Spectrometry
- PCR Method

## LANGUAGES

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**English:** Very good knowledge ( LanguageCert Test of English (LTE) - LanguageCert Level 2 Certificate in ESOL International (Listening, Reading) (LanguageCert Test of English C1) First Certificate in English University of Cambridge.

**German:** Very good knowledge ( ZEUGNIS Zentrale Mittelstufenprüfung GOETHE –INSTITUT)

## SEMINAR

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2016 KILL SPILL: 8<sup>th</sup> meeting-Athens Integrated Biotechnological Solutions for Combating Marine Oil Spills , 26-28/Jun/2016. Organized by the Environmental Protection Engineering (EPE)

#### **MEMBERSHIPS**

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- Member of the Technical Chamber of Greece
- Member of the Hellenic Association of Environmental Engineers.

#### **REFERENCES**

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Professor Ioannis Gentekakis, Professor D. Mantzavinos