

# Themistoklis Sfetsas

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## Personal information

Gender: Male  
Age: 29  
Nationality: Hellenic  
Place of Birth: Thessaloniki  
Date of Birth: 01/22/1981

## Work

Laboratory of Environmental Fuels & Hydrocarbons  
Chemical Process Engineering Research Institute, Centre for Research and Technology Hellas,  
(CPERI/CERTH), 6<sup>th</sup> km Harilaou-Thermi Road, P.O. Box 361, GR-570 01, Thermi, Thessaloniki  
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## Education

Ph.D. Candidate, Aristotle University of Thessaloniki, Dept. of Chemical Engineering, Section of Chemistry. (since 2007). Thesis title: ***“Synthesis of hydrazone-derivatives of ortho-substituted aromatic carbonyl compounds and study of its oxidation”***

M.Sc., National and Kapodistrian University of Athens, Dept. of Chemistry, Direction: “Modern methods in Chemistry Didactics”, Title of courses: “Didactics of Chemistry and New Educational Technologies” Thesis title: ***“Development of educational material by using molecular modeling in polymers”***

B.Sc., Aristotle University of Thessaloniki, Faculty of Sciences, School of Chemistry, Direction: “Organic Chemistry and Biochemistry”. Diploma Thesis title: ***“Quantum mechanics study of chlorinated (N)hydroxy-thiophenes”***

Graduated from Stavros High School in 1998 with grade 18/20

## Publications/Presentations

- “Qualitative and quantitative analysis of pyrolysis oils by gas chromatography with flame ionization detection and comprehensive two-dimensional gas chromatography with time-of-flight mass spectrometry” Themistoklis Sfetsas, Chrysa Michailof, Angelos Lappas, Qiangyi Li, Brian Kneale, Journal of Chromatography A (*In Press, Accepted Manuscript, Available online 13 October 2010*) 10/2010
- Poster and Oral presentation: “Qualitative and Quantitative analysis 21/09 - 23/09/2010

of the aqueous phase of pyrolysis oils by means of GC-FID and GCxGC-TOFMS analysis”, Bioten Conference, Holiday Inn, Birmingham, UK

- “Hydrotreating of waste cooking oil for biodiesel production. Part II: Effect of temperature on hydrocarbon composition”. S. Bezergianni, A. Dimitriadis, T. Sfetsas, A. Kalogianni, *Bioresource Technology*, Vol. 101, Issue 19, 2010, p. 7658-7660 10/2010
- Poster: “Identification, Classification and Quantification of compounds of interest in three different bio-oil samples using multidimensional gas chromatography coupled to time of flight mass spectrometry”, 34<sup>th</sup> ISCC and 7<sup>th</sup> GC x GC symposium, Riva del Garda, Italy 30/05 - 04/06/2010
- Poster: “Silver recovery from radiographic films”, 3<sup>rd</sup> Conference in Green Chemistry and Sustainable Development. Thessaloniki 25 - 27/09/2009
- “Development of educational material by using molecular modeling in polymers” Themistoklis Sfetsas, Thessaloniki 2008-2009 2009
- Poster: “The Chemistry of Recycling”, 2<sup>nd</sup> Conference in Green Chemistry and Sustainable Development. Patras, Greece 08 - 10/03/2007
- “Silver recovery from radiographic films”, T. Sfetsas, D. Tsonis, Thessaloniki 2007 2007
- “The Chemistry of Recycling”, T. Sfetsas, D. Tsonis, A. Mpalampani, Thessaloniki 2007 2006

## Research Experience

- Reviewer to the Journal of Chromatography A, with areas of expertise: 09/2010  
 Gas Chromatography,  
 Comprehensive two-dimensional GC and  
 Mass Spectrometry
- Educational and specialization scholarship: “Characterization of petroleum fractions with comprehensive gas chromatography”, CPERI/CERTH 01/01 - 31/12/2010
- Educational and specialization scholarship: “Characterization of petroleum fractions with comprehensive gas chromatography”, CPERI/CERTH 01/03 - 31/12/2009

## Teaching Experience

- Additional Teaching Support program in High schools 2005 - 2006  
Teaching **Chemistry** - High school of Sohos
- Tutor of **Molecular Biology & Genetics** - Private Institute "AKMI" 2005 - 2006
- Additional Teaching Support program in High schools 2006 - 2007  
Teaching **Physics & Chemistry** - High school of Sohos & 19<sup>th</sup> High school of Thessaloniki
- Additional Teaching Support program in High schools 2008 - 2009
- Teaching **Chemistry** - 3<sup>rd</sup> High school of Kalamaria, Thessaloniki

## Professional Development

- Consultant under REACH (1907/2006) and CLP (1272/2008) EU regulations Since 2009
- Separation Science specialist Since 2009
- Teaching Since 2005  
Teaching Permit (Ministry of Education, Lifelong Learning & Religious Affairs)

## Affiliations/Memberships

- Member of the "Greek Chemists Association" Reg. No.: 14179 03/2007
- Member of the "American Chemical Society" Reg. No.: 30147416 09/2010

## Training courses

- GCxGC course, 34<sup>th</sup> ISCC & 7<sup>th</sup> GCxGC, Riva del Garda, Italy 30/05/2010
- LECO Pegasus 4D, LECO Instrumente GmbH, European Technical Center, Moenchengladbach, Germany 04 - 07/05/2009
- "GC, GC-MS, GC-MS/MS: Theory & Application", MFI & GCA 30/03 - 02/04/2009
- "Principles and Applications of Metrology in Chemistry", TrainMiC, JRC, Athens 30 - 31/03/2009

## Experience

**Software:** ChromaToF, iWorks 09, MS Office 2007, Gaussian 03W, ChemOffice 2008, IUCLID 5, OECD QSAR Toolbox, Dreamweaver, Photoshop, Illustrator, Windows, Mac OS

**Chromatography:** Column Chromatography (CC)  
Gas Chromatography (GC)  
Multidimensional Gas Chromatography (GC x GC)  
Liquid Chromatography (LC & HPLC)

**Other:** PC troubleshooting  
GC maintenance  
Laboratory Supervisor  
Laboratory techniques  
Personal Safety

### **Foreign Languages**

- English: Certificate of Proficiency in English (Michigan University)  
First Certificate in English (Cambridge University)
- German: Zertifikat Deutsch als Fremdsprache (Goethe Institut)

### **References**

Available upon request