

## Curriculum Vitae Paris A. Fokaides

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*Paris A Fokaides  
Nicosia, 30 April 2009*

## 1. General Information

|                  |   |
|------------------|---|
| Name             | Paris A. Fokaides   |
| Born             | 28.06.1977, Lefkosia, Cyprus  |
| Family status    | Married to Revekka Papacharalampous, no children  |
| eMail            | <a href="mailto:fokaides@ucy.ac.cy">fokaides@ucy.ac.cy</a> ; <a href="mailto:fokaides@rdhydraulis.com.cy">fokaides@rdhydraulis.com.cy</a>                     |
| Web Address      | <a href="http://www.hydraulis.com.cy/fokaides">http://www.hydraulis.com.cy/fokaides</a>   |
| Telephone (off.) | +357 22 894588  |
| Fax (off.)       | +357 22 892295  |
| Telephone (cell) | +357 99 793207  |
| Address (off.)   | Department of Civil and Environmental Engineering,<br>School of Engineering, University of Cyprus,<br>PO Box 20537, 75, Kallipoleos Ave, Nicosia 1678, CYPRUS |
| Address (priv.)  | P.O. Box 22101, 1517, Nicosia, Cyprus   |

## 2. Academic Experience

|                        |  |
|------------------------|--|
| 06/2008 –<br>currently | Research Fellow<br>University of Cyprus, Department of Civil and Environmental Engineering,<br>Environmental Fluid Mechanics Laboratory                  |
| 10/2007 – 05/2008      | Associate Lecturer<br>Frederick University, Department of Mechanical Engineering   |
| 11/2002 – 06/2007      | Research Assistant<br>University of Karlsruhe, Department of Chemical and Process Engineering,<br>Engler-Bunte Institute, Division Combustion Technology |

## 3. Research Experience - Funded Research

|                       |  |
|-----------------------|--|
| Project               | “LOW POLLUTANT COMBUSTOR TECHNOLOGY PROGRAMME” GRD1-CT2000-25062 (FP5)   |
| Duration              | 01/2001 – 12/2004 - own contribution 11/2002 – 12/2004   |
| Brief Description     | <ol style="list-style-type: none"><li>1. Definition and validation of technological bases for a new generation of green aero engines.</li><li>2. Study of individual components of combustors and incorporation in a multi-sector or annular combustor representative of large or small engines.</li></ol>   |
| Partners              | Snecma Moteurs (Fr), AVIO (It), MTU (Ger), Rolls-Royce (UK), Turbomeca (Fr), QinetiQ (UK), Onera (Fr), Loughborough Univ. (UK), Munich Univ. (Ger), Firenze Univ. (It), Ensmat (Fr), Lund Univ. (Sw), Cambridge Univ. (UK), DLR (Ger)  |
| Contribution          | WP 4 ; Task 4.4 ; Subcontractor(MTU Aero Engines) - Principal Researcher <ol style="list-style-type: none"><li>1. Experimental investigation of lean blow out limits, fuel droplets dispersion in flame and emissions for atmospheric and elevated conditions for four (4) swirl nozzles provided by MTU Aero Engines.</li><li>2. Design, construction and operation of two (2) test facilities simulating combustion in gas turbine for atmospheric and elevated pressure (<math>\approx 20</math> bar) conditions.</li></ol> |
| Funding<br>as partner | 200 k€   |
| On-line Reference     | <a href="http://lopocotep.com/">http://lopocotep.com/</a>  |

### 3. Research Experience - Funded Research (continue)

|                           |  |
|---------------------------|--|
| <b>Project</b>            | "Towards Lean Combustion" AST4-CT-2005-012326 (FP6)  |
| <b>Duration</b>           | 01/2005 - 02/2009 - own contribution 01/2005 - 06/2007   |
| <b>Brief Description</b>  | <ol style="list-style-type: none"> <li>1. Mitigation of aviation emissions in terms of their environmental impact.</li> <li>2. Wide range of experiments on mono-sector or tubular combustors.</li> </ol>  |
| <b>Partners</b>           | SNECMA (Fr), Rolls-Royce Deutschland (De), MTU (De), AVIO (It), Turbomeca (Fr), ONERA (Fr), DLR (De), Lunds Univ. (Se), CNRS (Fr), Ecole Centrale de Nantes (Fr), Univ. Karlsruhe (De), Univ. di Genova (It), Univ. di Napoli "Frederico II" (It), CERFACS (Fr), Fundación Empresa Univers. de Zaragoza (Es), Univ. di Roma "La Sapienza" (It), Instytut Maszyn Przeplywowych (Pl), ACIES Europe (Fr)  |
| <b>Contribution</b>       | <p>WP 2 ; Task 2.3.3 ; Principal Researcher</p> <ol style="list-style-type: none"> <li>1. Stability diagram for three nozzles</li> <li>2. Identification of lifted mode combustion</li> <li>3. Flow and mixing field determination for a lifted and non-lifted flame for isothermal and reactive conditions by employing LDA, PIV, PDA and LIF</li> </ol> <p>WP 3 ; Task 3.6 ; Principal Investigator</p> <ol style="list-style-type: none"> <li>1. Design, construction and operation of three swirl nozzles</li> </ol> |
| <b>Funding as partner</b> | 684 k€   |
| <b>On-line Reference</b>  | <a href="http://ec.europa.eu/research/transport/projects/article_3689_en.html">http://ec.europa.eu/research/transport/projects/article_3689_en.html</a>  |

|                           |  |
|---------------------------|--|
| <b>Project</b>            | "NEW Aero engine core Concepts", AIP5-CT-2006-030876 (FP6)   |
| <b>Duration</b>           | 03/2007 - 02/2011 - own contribution 12/2006 - 06/2007   |
| <b>Brief Description</b>  | <ol style="list-style-type: none"> <li>1. Development of new core engine concepts</li> <li>2. Identification of technology routes to environmentally friendly and economic propulsion solutions</li> </ol>   |
| <b>Partners</b>           | MTU (De), Snecma (Fr), Volvo (Se), Rolls Royce Deutschland (De), AUTH (Gr), ASBL (Be), Cranfield Univ. (UK), DLR (De), EnginSoft (It), ONERA (Fr), Oxford Univ. (UK), Univ. Aachen (De), Univ. de Belfort-Montbéliard (Fr), Univ. Graz (Au), Univ. de Liège (Be), Univ. Stuttgart (De), Rolls Royce Plc (UK), AVIO (It), Turbomeca (Fr), Techspace Aero (Be), ARTTIC S.A.S. (Fr), Airbus France (Fr), Cambridge Univ. (UK), SDA (Fr), Chalmers Univ. (Se), Univ. Lausanne (Sw), Loughborough Univ. (UK), NTUA (Gr), Sulzer Metco (Sw), Univ. Firenze (It), Univ. Karlsruhe (De), Univ. Sussex (UK) |
| <b>Contribution</b>       | <p>WP 6 ; Task 6.2.2 ; Principal Researcher</p> <ol style="list-style-type: none"> <li>1. Preliminary design of the PERM injection system</li> <li>2. Characterization of the two-phase-flow at elevated pressure conditions by LDA and PDPA techniques</li> </ol>   |
| <b>Funding as partner</b> | 720 k€   |
| <b>On-line Reference</b>  | <a href="http://www.newac.org/">http://www.newac.org/</a>  |

### **3. Research Experience - Funded Research (continue)**

|                          |   |
|--------------------------|---|
| <b>Project</b>           | <b>Categorisation of buildings in Cyprus based on their energy efficiency, ΑΕΙΘΟΠΙ-Α/ΑΣΤΙ/0308 (BIE)/02 (Cyprus Research Promotion Institute National Framework Programme for Research and Technological Development 2008-2010)</b> |
| <b>Duration</b>          | 01/2009 - 06/2010 - own contribution 01/2009 -  |
| <b>Brief Description</b> | Field measurements for the determination of the energy efficiency of buildings in Cyprus in order to enable their certification, based on 2002/91(EC) directive.  |
| <b>Partners</b>          | Cyprus Scientific and Technical Chamber (ΕΤΕΚ), University of Cyprus, Cyprus University of Technology, Energy Service Cyprus, RTD Talos Ltd   |
| <b>Contribution</b>      | Principal Researcher in following WPs<br>WP 3: Buildings' data processing<br>WP 4: Field measurements of buildings' energy efficiency<br>WP 5: Results' clustering  |
| <b>Funding</b>           | ≈ 125 k€  |
| <b>On-line Reference</b> | <a href="http://www.epbd-project.com">http://www.epbd-project.com</a>   |

|                          |   |
|--------------------------|---|
| <b>Project</b>           | <b>Transdisciplinary Centre of "Energy Efficiency of sustainable building environment"</b>  |
| <b>Details</b>           | Proposal Number: ΑΝΑΒΑΘΜΙΣΗ/ΠΑΓΙΟ/0308/33, achieved a total score of 8.88 and will be funded in terms of the Cyprus Research Promotion Institute National Framework Programme for Research and Technological Development 2008-2010  |
| <b>Duration</b>          | 48 months, Kick off estimated in May. 2009  |
| <b>Brief Description</b> | Upgrade of the infrastructure of Environmental Flow Mechanics Laboratory in order to enable the creation of a transdisciplinary centre for energy efficiency and sustainable building environment   |
| <b>Partners</b>          | University of Cyprus, Cambridge University (UK), Massachusetts Institute of Technology (USA), Cyprus Scientific and Technical Chamber (ΕΤΕΚ), Energy Service Cyprus   |
| <b>Contribution</b>      | Associate Researcher in following WPs<br>WP 3: Infrastructure installation<br>WP 4: Infrastructure operation<br>WP 5: Investigation of innovative applications and results analysis: Flow<br>WP 6: Investigation of innovative applications and results analysis: Field Measurement |
| <b>Funding</b>           | ≈ 400 k€  |
| <b>On-line Reference</b> | -   |

### 3. Research Experience - Funded Research (continue)

|                          |   |
|--------------------------|---|
| <b>Project</b>           | Wave energy converter mechanism by transmitting reciprocating, variable amplitude and direction wave motion into uni-rotational motion  |
| <b>Details</b>           | Proposal Number: ΤΕΧΝΟΛΟΓΙΑ/ΕΝΕΡΓ/0308 (BIE)/18, achieved a total score of 8.65 and will be funded in terms of the Cyprus Research Promotion Institute National Framework Programme for Research and Technological Development 2008-2010  |
| <b>Duration</b>          | 36 months, Kick off estimated in May. 2009  |
| <b>Brief Description</b> | The basic objectives of this project is to develop a high efficiency WEC, incorporating a novel and patented mechanism that allows capturing and subsequently converting, all of the entire exploitable wave energy   |
| <b>Partners</b>          | University of Cyprus, Frederick Research Centre, Energy Service Cyprus, Public Works Department - Sea Works Division.   |
| <b>Contribution</b>      | Associate Researcher in following WPs<br>WP 3: Hydrodynamic design of scale model<br>WP 4: Mechanical design of scale model<br>WP 5: Laboratory testing of scale model + measurements of energy efficiency<br>WP 7: Correlation of representative field data<br>WP 8: Pilot test of scale model |
| <b>Funding</b>           | ≈ 140 k€  |
| <b>On-line Reference</b> | -   |

|                          |  |
|--------------------------|--|
| <b>Project</b>           | Towards an optimisation of urban planning and architectural parameters for energy use minimisation in Mediterranean cities, UrbanNet Project, Call 2008  |
| <b>Duration</b>          | 04/2009 - 03/2011 - own contribution 04/2009 -   |
| <b>Brief Description</b> | Aim of this project is the investigation of the energy exchange processes between buildings and air in a typical South European city as well as the ventilation properties in relation to urban-planning and architectural parameters, for the purpose of energy use minimisation. |
| <b>Partners</b>          | University of Cyprus, EXA-High Performance Computing, ATLANTIS Ltd, University Högskolan i Gävle, Sweden, Bulgarian Academy of Science   |
| <b>Contribution</b>      | Associate Researcher in following WPs<br>WP 2: Identification of representative urban canopy areas<br>WP 4: Field measurement of heat flux at buildings<br>WP 7: Identification of best practices in urban planning  |
| <b>Funding</b>           | ≈ 140 k€   |
| <b>On-line Reference</b> | -  |

## 4. Publications

### 2009

1. P. Fokaides: „Experimentelle Untersuchung des Stabilitätsmechanismus von abgehobenen verdrallten eingeschlossenen Diffusionsflammen“, Dissertation (in German)
2. P. Fokaides, M. Weiss, M. Kern, N. Zarzalis : „Experimental and Numerical Investigation of Swirl Induced Self-excited Instabilities at the Vicinity of an Airblast Atomiser“, Journal for Flow Turbulence and Combustion -DOI 10.1007/s10494-009-9205-3
3. M. Kern, P. Fokaides, P. Habisreuther, N. Zarzalis: „Applicability of a flamelet and a presumed JPDF 2-domain-1-step-kinetic turbulent reaction model for the simulation of a lifted swirl flame“, Proceedings of ASME Turbo Expo 2009, GT2009-59435
4. Π.Α. Φωκαΐδης, Μ. Νεοφύτου: „Αλληλεπίδραση δομημένου περιβάλλοντος και αστικού μικροκλίματος“, Πρακτικά 9ου Πανελληνίου Συνεδρίου για τις Ήπιες Μορφές Ενέργειας, Ινστιτούτο Ηλιακής Τεχνικής, Κύπρος, 2009 (in Greek)
5. P.A. Fokaides, C.N. Markides, M. Neophytou: „Ventilation characteristics of the built environment and their effects on the urban microclimate“, Proceedings of 4th International Conference on Sustainable Development and Planning, Wessex Institute of Technology, 2009
6. Π.Α. Φωκαΐδης, Χ.Ν. Μαρκίδης, Ι. Παναγιώτου, Μ. Νεοφύτου: „Πειραματική διερεύνηση αλληλεπίδρασης δομημένου περιβάλλοντος και αστικού μικροκλίματος σε ανομοιογενείς γεωμετρίες κτιρίων“, Πρακτικά 7ου Πανελληνίου Επιστημονικού Συνεδρίου Χημικής Μηχανικής, Πάτρα, 2009 (in Greek)
7. S. Kalogirou, G. Florides, A. Papadopoulos, M. Neophytou, P. Fokaides, G. Georgiou, A. Elia, C. Maxoulis, A. Symeou, G. Georgakis: „Classification of buildings in Cyprus based on their energy efficiency“, Proceedings of 4th International Conference on Sustainable Development and Planning, Wessex Institute of Technology, 2009

### 2008

1. P.A. Fokaides, P. Kasabov, N. Zarzalis : „Experimental Investigation of the Stability Mechanism and Emissions of a Lifted Swirl Non-Premixed Flame“, Journal of Engineering for Gas Turbines and Power, Volume 130, Issue 1, 011508 DOI:10.1115/1.2749279 GTP-07-1084
2. Fokaides, P.A. ; Tsiftes, K. : „Technologies for the utilization of olive husk in the energy industry“, Arab Water World, August 2008 / Vol. XXXII Issue 8 (in English and Arabic)

### 2007

1. P.A. Fokaides, P. Kasabov, N. Zarzalis : „Experimental Investigation of the Stability Mechanism and Emissions of a Lifted Swirl Non-Premixed Flame“, Proceedings of ASME Turbo Expo 2007, GT2007-27126 - **Best Paper Award by the Combustion, Fuels & Emissions Committee of ASME Turbo Expo 2007**
2. P.A. Fokaides, P. Kasabov, N. Zarzalis : „Experimentelle Untersuchung Abgehobener Verdrallter Nicht-Vorgemischter Flammen“. Gas und Wärme International, Heft 3/07 - Verbrennungstechnik (in german)
3. P.A. Fokaides, N. Zarzalis : „Lean Blowout Dynamics of a Lifted Stabilized, Non-Premixed Swirl Flame“. Proceedings of European Combustion Meeting 2007, The Combustion Institute, 2007
4. P. Fokaides, M. Weiss, M. Kern, N. Zarzalis : „Experimentelle Untersuchung und Numerische Simulation von drallinduzierten selbsterregten Instabilitäten am Brennermund eines Airblast-Zerstäubers“. VDI Bericht Nr 1988, 2007, für die VDI Tagung „Flammentag 2007“ (in german)
5. M. Odinius, P Fokaides, M. Weiss, N. Zarzalis, H. Bockhorn : „Bestimmung des integralen Zeitmasses in einer turbulenter Strömung aus LDA Messungen“ Proceedings der Fachtagung „Laser Methoden in der Strömungsmesstechnik“, 2007 (in german)
6. Fokaides, P.A. ; Tsiftes, K. : „Utilization of olive husk in energy sector in Cyprus“. Proceedings of Renewable Energy Sources & Energy Efficiency Conference, 2007, Cyprus

## 4. Publications (continue)

### 2005

1. C. Koroneos, P. Fokaides, N. Moussiopoulos : „Cyprus energy system and the use of renewable energy sources” Journal Energy, Volume 30, Issue 10, July 2005, Pages 1889-1901
2. Π.Α. Φωκαΐδης, Μ. Μιχαήλ: Προτάσεις Πολιτικής, Κεφάλαιο „Παράμετροι Ενεργειακής Πολιτικής: Ευρωπαϊκή Νομοθεσία και κυπριακή πραγματικότητα”, Power Publishings (in greek)

### 2002

1. C. Koroneos, P. Fokaides, N. Moussiopoulos : „Cyprus energy system and the use of renewable energy sources” 4th I.S.E.S. Europe Solar Congress, 2002, Italy

## 5. Teaching Experience / Supervising

|                      |   |
|----------------------|---|
| SS 2009              | University of Cyprus<br>CEE 575: <u>Energy Efficiency in Buildings</u> , Lecturer<br>CEE 483: <u>Transport Phenomena in Environmental Engineering</u> , Lecturer  |
| WS 2008              | University of Cyprus<br>CEE 575: <u>Energy Efficiency in Buildings</u> , Associate Lecturer<br>CEE 592: <u>Renewable Energy Sources Management</u> , Associate Lecturer<br>CEE 272: <u>Fluid Mechanics Laboratory</u> , Lab Tutor   |
| SS 2008              | Frederick University, Cyprus<br>AMEM 208: <u>Dynamics</u> , Lecturer  |
| WS 2007              | Frederick University, Cyprus<br>AMEE 431: <u>Fundamentals of Internal Combustion Engines</u> , Lecturer   |
| WS 2006              | University of Karlsruhe, Germany<br>22999: <u>Introduction to Process Engineering</u> , Lab Tutor   |
| SS 2006              | University of Karlsruhe, Germany<br>22514: <u>Non-reacting and Reacting Turbulent Flows</u> , Teaching Assistant  |
| SS 2005              | University of Karlsruhe, Germany<br>Supervisor of diploma thesis of student Mr. Dimitris Tosidis<br>Title: <u>Experimentelle Untersuchung des Einflusses von Druckverlust, Luftvorwärmung, Temperatur, Stöchiometrie auf die Tropfenausbreitung unter Verwendung eines Airblast Zerstäubers</u> |
| WS 2004<br>- SS 2006 | University of Karlsruhe, Germany<br>22512: <u>Heat and mass transfer for Mechanical Engineers</u> , Teaching Assistant  |
| WS 2004              | University of Karlsruhe, Germany<br>Supervisor of diploma thesis of student Mr. Plamen Kasabov<br>Title: <u>Experimentelle und theoretische Analyse der NOx-Emissionen bei Airblast-Zerstäuber-Düsen</u>  |
| SS 2004              | University of Karlsruhe, Germany<br>22542: <u>Combustion Laboratory</u> , Lab Tutor   |
| WS 2003<br>- SS 2006 | University of Karlsruhe, Germany<br>22542: <u>Applied Combustion Technology</u> , Lab Tutor   |
| WS 2003              | University of Karlsruhe, Germany<br>22542: <u>Applied Combustion Technology</u> , Teaching Assistant  |

## 6. Patents

Zarzalıs, N.; Fokaidıs, P.A.; Merkle, K.: Fuel injection apparatus, European Patent: EP 1 722 164 A1, 2006

## 7. Prizes - Scholarships

|         |   |
|---------|---|
| 05/2008 | Best Paper Award by the Combustion, Fuels & Emissions Committee from ASME Turbo Expo 2007 - Fokaidıs, P.A. et al: "Experimental Investigation of the Stability Mechanism and Emissions of a Lifted Swirl Non-Premixed Flame" GT2007-27126 |
| 04/2007 | Scholarship by the German Section of the Combustion Institute for the participation at the European Combustion Meeting, April 2007  |

## 8. Skills in experimental fluid mechanics and in-flame measurements

|                              |   |
|------------------------------|---|
| Experimental Fluid Mechanics | <ol style="list-style-type: none"><li>1. <u>3D - Laser Doppler Anemometry</u>: Experienced user in reactive and non-reactive flows. I have performed series of experiments in swirl isothermal and reacting flames for the characterisation of the stability mechanism.</li><li>2. <u>Laser Light Sheet Mie Scattering</u>: Experienced user in reactive and non-reactive flows. Experiments performed in reacting flames for the characterisation of the two-phase flow of liquid fuels.</li><li>3. <u>Particle Image Velocimetry</u>: Experienced user in non-reactive flows. Measurements performed in water channels for the characterisation of urban flows.</li><li>4. <u>Flow Rate Measurements</u>: Experienced user of several instrumentation such as Coriolis and turbine flow meters, Rotameter etc.</li><li>5. <u>Pressure Measurements</u>: Experienced user of several instrumentation such as piezo-electric crystals, membrane pressure gauge etc.</li></ol> |
| In-flame Measurements        | <ol style="list-style-type: none"><li>1. <u>Local and Global Concentration Analysis</u>: Experienced user of several gas analysis methods such as NDIR, FID, FTIR, Paramagnetism etc. Experiments regarding the mixture field of reacting and non reacting flames.</li><li>2. <u>Temperature Measurements</u>: Experienced user of several gas analysis methods such as thermocouples, micro-thermocouples, PT100 etc. Experiments regarding the temperature field of reacting and non reacting flames.</li></ol>   |

## 9. Administrative and other duties

|                   |  |
|-------------------|--|
| 06/2003 - 06/2007 | University of Karlsruhe, Germany<br>Engler-Bunte Institute, Division of Combustion Technology<br>In-charge of maintenance and operation of institutes' gas analysers<br>≈ 40 devices with a total cost of ≈ 600 k€ |
| 06/2003 - 01/2004 | University of Karlsruhe, Germany<br>Engler-Bunte Institute, Division of Combustion Technology<br>Health and Safety Officer for issues regarding laser safety   |
| 03/2001 - 03/2002 | Aristoteleio University Thessaloniki, Greece<br>School of Engineering, Department of Mechanical Engineering<br>Member of students administration committee of Mechanical Engineers AUTH                            |

## **10. Education**

|                   |  |
|-------------------|--|
| 11/2002 - 06/2007 | University of Karlsruhe, Germany,<br>School of Engineering, Department of Chemical and Process Engineering<br>Dr.-Ing., Chemical and Process Engineering<br>(Date of Viva Voce: 26. February 2009)<br>Thesis: Experimental investigation of the stability mechanism of lifted non-premixed swirl confined flames |
| 10/1997 - 07/2002 | Aristoteleio University Thessaloniki, Greece<br>School of Engineering, Department of Mechanical Engineering<br>Dipl.-Ingenieur, Mechanical Engineering (Note 6,7 - Very Good)<br>Thesis: Wind potential analysis of selected sites in Cyprus and techno-economic assessment for the establishment of a wind-park |
| 09/1992 - 06/1995 | Acropolis Lyceum Nicosia, Cyprus<br>Apolyterion (19.0/20 - Distinction)<br>Focus on: mathematics, physics and chemistry  |
| 09/1989 - 06/1992 | Acropolis Gymnasium Nicosia, Cyprus  |
| 09/1983 - 06/1989 | Dasoupolis Elementary School Nicosia, Cyprus   |

## **11. Military Service**

07/1995 - 09/1997 | Artillery Cadet Officer (Cyprus National Guard)

## **12. Professional Memberships**

Cyprus Scientific and Technical Chamber (ETEK)- since 2002  
VDI - Verein Deutscher Ingenieure - since 2006  
The Combustion Institute - Greek Section - since 2007  
Association of Environmental Engineers, Cyprus - since 2007  
Institute for Solar Technology, Greece - since 2009

## **13. Miscellaneous Qualifications**

|                   |   |
|-------------------|---|
| Foreign Languages | Greek: Mother Tongue<br>English: Fluent reading, writing and verbal skills<br>German: Fluent reading writing and verbal skills<br>French: Basic reading and writing skills  |
| Computer Literacy | Operating Systems: MS DOS, MS Windows<br>Languages: Fortran 77/90/95, Visual Basic, Matlab<br>Scripting Languages: HTML<br>3D-CAD: PTC ProEngineer Wildfire 3.0, Autocad 2005<br>Applications: TecPlot, Chemkin (basic knowledge), ICEM CFD (basic knowledge), Office and Graphic Software of Microsoft and Adobe, MS-Visio |
| ISO Systems       | Accredited External Auditor for ISO 9001, ISO 14001 and ADR (TÜV Nord)  |

#### 14. Private Interests

|                   |   |
|-------------------|---|
| Interests         | <ul style="list-style-type: none"><li>• Music performing and composing (I possess the Licentiate of the Royal Schools of Music - LRSM, in Theory of Music and Piano)</li><li>• Studying history and geopolitics</li><li>• Weight training</li><li>• Snooker</li></ul> |
| Other Memberships | <ul style="list-style-type: none"><li>• Olympiakos Nicosia Sport Club - since 2005</li><li>• Gymnastic Association 'Pancypria' - since 2002</li></ul>   |

*Dr.-Ing, Paris A Fokaides  
Nicosia, 30 April 2009*