Eleni Mouriki

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Education

Master of Applied Science, Building Engineering *(exp. March 2009)*
Concordia University, Montreal, Quebec
Cumulative Grade Point Average: 3.6/4.30 index

Bachelor of Engineering, Chemical Engineering *(1998 – 2004)*
Aristotle University of Thessaloniki, Thessaloniki, Greece

Career-Related Experience

Research assistant *(2006 – 2009)*
Concordia University, Montreal, Quebec

- Monitor the performance of a building's natural ventilation system
- Use various instrumentation, data acquisition system and IR camera
- Perform installation of sensors, measurements and data analysis
- Collect and analyze weather station environmental data
- Assess night ventilation potential of the building and energy savings
- Develop analytical simulation models
- Provide assistance is other tasks and projects

Research assistant/ Chemical Engineer *(2004 – 2006)*
National and Kapodistrian University of Athens, Athens, Greece

- Performed tests for VOC-formaldehyde emissions
- Used sampling devices and prepared samples for testing
- Operated chromatography systems for sample chemical analysis
- Performed troubleshooting and problem solving
- Evaluated data, prepared reports
- Assisted in VOC emission detection projects and other tasks

Intern *(2003 – 2004)*
Centre for Research and Technology – Hellas (CE.R.T.H) – Chemical Process Engineering Research Institute (C.P.E.R.I), Thessaloniki, Greece

- Sorted and prepared VGO samples for testing
- Handled hazardous materials
- Used chromatography analysis for sulfur content specification
- Analyzed data and provided technical reports
- Accustomed to laboratory standard maintenance and safety procedures
- Performed log book keeping of activities

Academic Projects

Measurements in a mixed mode ventilated atrium

- Monitored atrium indoor conditions under different outdoor conditions
- Measured air and surface temperatures, air velocities, solar irradiance
- Collected and analyzed data, create project report

Sustainable energy resources and wind energy applications

- Studied basic sustainable energy sources
- Examined direct and indirect wind energy applications
- Compiled resources and findings in report

Distribution of heavy aromatic sulfur compounds in fluid catalytic cracking (FCC) products

- Operated micro-scale FCC unit and chromatography detectors
- Compiled experimental data and results in thesis report

Techno-economical study for the production of n-butanol

- Investigated raw materials sources, market demand, exportation prospect
- Proposed draft design for the production of a chemical compound
- Finalized product's flow chart and wrote detailed report on the production procedure

Workshops

- Safety course (Montreal, August 2008)
- ESP-r workshop (Calgary, June 2007 and Montreal, November 2007)
- "Indoor Air Quality", Winter School (Delfoi, Greece, 26-27 November 2005)

Publications

- "Full scale study of an atrium integrated with a hybrid ventilation system", E. Mouriki, P. Karava, A. Athienitis, K. Park, T. Stathopoulos, *paper submitted for the 3rd Canadian Solar Buildings Conference, Fredericton 2008.*
- "The effect of heavy aromatic sulfur compounds on sulfur in cracked naphtha", J.A. Valla, E. Mouriki, A.A. Lappas and I.A. Vasalos, *Catalysis Today, Volume 127, Issues 1-4, 30 September 2007, Pages 92-98.*

Computer Skills

- Excellent in Microsoft Word and Excel, IE applications, GC/MS software
- Experienced in Mathcad, ThermaCAM Researcher, TRNSYS

Languages

Spoken and written English, French and Greek

Interests

Swimming, hiking, traveling, playing musical instrument

References are available upon request