

**Name:** Dr. Djamel Ouahrani – Associate Professor

**Courses Taught (recent two academic years):**

ARCT 220 Climate and Architecture

ARCT 332 Environmental Control Systems II

ARCT 410 Architectural Design Studio V

ARCT 411 Architectural Design Studio VI

ARCT 422 Research Methods in Architecture

ARCT 512 Senior Project

MUPD 655 City and Regional Planning in Arid Zones

MUPD 656 Environmental Planning and Management

MUPD 760 Thesis Focus on Urban Design

PHUP 753 Sustainable Urbanism

DENG 699 PhD Thesis Supervision

**Educational Credentials**

- PhD, Architecture & Development, Lund University – Sweden | 2000
- MPhil, Architecture & Development, Lund University – Sweden | 1993
- Architect DPLG, Architecture, Ecole Polytechnique d'Architecture et d'Urbanisme d'Alger – Algeria | 1986

**Teaching Experience**

- Department of Architecture and Urban Planning, College of Engineering, Qatar University, Doha – Qatar | 2009-Present
- Adjunct Professor in intensive master course in Applied Energy, Department of Mechanical Engineering, AUB American University of Beirut – Lebanon | 2009-2010
- Researcher, Consultant and Lecturer at Division of Construction & Architecture, Department of Housing Development and Management, Lund University – Sweden | 2001-2008
- Lecturer and co-responsible of post graduate course “Architecture, Energy and Environment”, Ark III – Department of Architecture & Development Studies, Lund University (part-time) – Sweden | 1995-1999

**Professional Experience**

- Architect, Youth base for the municipality of Växjö 50 apartments in the centre of Växjö with Henrik Wibro | 2007-2009
- Architect, Proposal for an Islamic cultural centre I Stockholm as architect for NCC Stockholm | 2008
- Consultant “Advanced Curriculum on Energy Efficiency and Renewable Energy in Buildings, Egypt (budget: EU - Joint Project) | 2007-2009
- Project leader “Defining means and Criteria for Improving Thermal Performance and Minimizing Energy Consumption in Buildings in Jordan” with Erik Johansson (budget: 6.2 MSk) | 2005-2008

**Licenses/Registration**

- Algerian Architect License – Algeria
- Swedish registered Architect office – Sweden

**Selected Publications and Recent Research**

- JP Harrouz, D Al Assaad, M Orabi, K Ghali, D Ouahrani, N Ghaddar. (2021). Modeling and optimization of poultry house passive cooling strategies in semiarid climates, International Journal of Energy Research
- JP Harrouz, E Katramiz, K Ghali, D Ouahrani, N Ghaddar. (2021). Comparative analysis of sustainable desiccant–Evaporative based ventilation systems for a typical Qatari poultry house, Energy Conversion and Management 245 114456 (2021)
- Albert Al Touma, Djamel Ouahrani. (2021). The application of control algorithm for optimal performance of evaporatively-cooled façade system in hot dry and humid weathers, Journal of Building Engineering. 44 102642
- Douaa K. Al Assaad, Mohamad S. Orabi, Nesreen K. Ghaddar, Kamel F. Ghali, Darine A. Salam, Djamel Ouahrani, Mohamad T. Farran, Rima R. Habib. (2021). A sustainable localised air distribution system for enhancing thermal environment and indoor air quality of poultry house for semiarid region, Biosystems Engineering 203 70-92.
- Ouahrani, D., Al Touma, A., (2018), Selection of slat separation-to-width ratio of brise-soleil shading considering energy savings, CO2 emissions and visual comfort – a case study in Qatar, Energy and Buildings, 165, 440-450.
- Ouahrani, D., Itani, M., Ghaddar, N., Khater, B. (2017). ‘Experimental study on using PCMs of different melting temperatures in one cooling vest to reduce its weight and improve comfort’ Energy & Buildings, September 2017, DOI: 10.1016/j.enbuild.2017.09.057
- Al Touma, A., Ouahrani, D. (2017). ‘Shading and day-lighting controls energy savings in offices with fully-glazed facades in hot climates’ Energy & Buildings, 151 pages 263-274

**Professional Memberships**

- Member of SULF Swedish University Teachers Association – Sweden
- Member of ASHRAE (American Society of Heating, Refrigerating and Air-Conditioning Engineers) – USA