



Wahed R. Wasel

105 C Lloyd Cassity Building, Morehead
State University Morehead, KY 40351
Phone: (606) 783-2432, Email:
w.wasel@moreheadstate.edu



QUALIFICATION

- Strong organizational and interpersonal skills, supportive team worker, and high degree of comfort in meeting with various professionals.
- Able to work independently, prioritize, and multi-tasked oriented.
- 5 years engineering experience in industry and 9 years academic experience.

EDUCATION

- **University of Kentucky, College of Engineering, Lexington, KY** **2006**
PhD in Mechanical Engineering
- **Fotys University of Professional Education and Eindhoven** **1997**
University of Technology, Eindhoven, The Netherlands.
Master of Science in Technical Education
- **Mansoura University, Faculty of Engineering, Mansoura, Egypt** **1992**
B.Sc. in Mechanical Engineering, Minor in Heat Exchangers Performance

ACADEMIC EXPERIENCE

- **Assistant Professor** **Fall-07- Present**
Industrial and Engineering Technology Department
Morehead State University, Morehead, KY
Teaching includes:
 - Technology Systems
 - Fundamentals of Computer
 - Computer Aided Design and Technical Drafting

- **Post Doctor Researcher** **2006-2007**
Mechanical Engineering Department
University of Kentucky, Lexington, KY

Teaching includes:

- Substitute teacher in summer class of Thermodynamics

Research includes:

- Carbon Nanotubes applications
- Quick Curing of the Paint
- Infrared (IR) application in nondestructive testing
- Using IR Camera in temperature measurements in biomedical field.
- Using LEASR in particle size and velocity measurement.

- **Research Assistant** **2002–2006**
Mechanical Engineering Department
University of Kentucky, Lexington, KY

Teaching as part of class assignment includes:

- Probability and Statistical Thermodynamics

Research includes:

- Carbon Nanotubes syntheses
- Carbon Nanotubes applications in Nano Sensors
- Measurements of gas species by Gas Chromatographer (GC)

Working duties includes:

- Designed, installed, and operate one of the experimental projects in Department of Mechanical Engineering Laboratory
- Work and assist with the measurements using Gas Chromatographer, Electronic Microscopes (SEM, & TEM) and LASER (LDV and PIV)

- **Teacher Assistant** **1996-2002**
Industrial Education College (IEC)
Hellwan University, Cairo, Egypt

Teaching includes:

- Thermodynamics
- Heat Transfer
- Fluid Mechanics
- Air Conditioning Systems and Equipment,
- Refrigeration Systems and Equipment

Working duties includes:

- Assisted in examination administration, term paper, and laboratory report
- Supervised contracting AC projects at IEC

INDUSTRIAL EXPERINCE

- **Project Engineer** **1999- 2000**
AL_EITEMADAT EST.,
Madinah, Saudi Arabia
Working duties includes:
 - Prepared shop drawing and supervised installation of air conditioning system, plumbing, and fire fighting system for a 200 rooms five star Hotel includes, the total capacity of the A/C system is 400 TR air cooled chillers with both air duct system and fan coil unites. The total cost of the project was \$6 million.
 - Designed, prepared shop drawing and supervised installation of air conditioning system, plumbing, and fire fighting system for a residential building with capacities ranging from 50 to 175 TR by using packaged and mini split units with air duct system.

- **Mechanical Engineer** **1995- 1996**
Gulf of Suez Petroleum Company
Ras Shoukier, Red Sea, Egypt
The company is the biggest oil producer in Egypt + 600,000 bpd.
GUPCO is the Egyptian partner to AMCO Oil Company.
Working duties includes:
 - Rotated in the different sections at the company including production fields both offshore and inshore, processing area, water injection plants, and construction
 - Designed pipelines and selected equipment for the projects including pumps, compressors, heat exchangers, and pipe fittings. Also I worked with the oil tank design team.

CONTINUING EDUCATION

Seminars and Workshops

- Developing Scholars of Teaching and Learning, Center for Teaching and Learning, Morehead State University, Morehead, KY in December 7, 2007
- Faculty Professional Development workshop on Business Process Integration Overview(SAP software) at school of Business, Morehead State University, Morehead, KY in November28-30, 2007
- Short course in Application Process Improvement in Painting Technology, Painting Technology Workshop October 2-3, 2006, Lexington, KY
- Lean Manufacturing seminar November 2005, University of Kentucky, Lexington, KY
- Painting Technology seminar, Lexington, KY October 2005
- Workshop on using STAR-CD software in engineering simulation, Detroit, Michigan, May 17-18, 2005

Conferences Attended

- Third Joint Meeting of the U.S. Sections of the Combustion Institute March 16-19, 2003 University of Illinois at Chicago.
- KY NanoMat September 25-26, 2003 University of Louisville, Louisville, KY.
- KY NanoMat September 20-21, 2004 University of Kentucky Lexington, KY.
- STAR American Conference 2005 CD-adapco, Detroit, Michigan.
- CIRTl Forum May 25-26, 2005, University of Wisconsin Madison, WI
- National Career Pathways Network 2007 Conference October 10–13, 2007 Louisville, Kentucky
- Attended the 40th annual NAIT convention, October 23-27, 2007 Panama City Beach, FL

Computer Skills

- Operating Systems: DOS, UNIX, Windows
- Application software: Auto-CAD, Google sketch, Inventor, FrontPage, STAR CD, SAP and Microsoft office
- Programming Languages: FORTRAN, Mat lab, and C++

PROFISSIONAL JOURNAL PUBLICARTIONS

- Wahed Wasel, Kazunori Kuwana, Kozo Saito. Chemical and thermal structures of a xylene-based CVD reactor to synthesize carbon nanotubes. *Chemical Physics Letters* 422 (2006) 470–4.
- Wahed Wasel, Kazunori Kuwana, Peter T.A. Reilly, Kozo Saito. Experimental characterization of the role of hydrogen in CVD synthesis of CNTs. *CARBON* 45 (2007) 833-8.
- W. Wasel, K. Kuwana, K. Saito. "Soot activation energy for a xylene-fueled CVD reactor," *International Journal of Chemical Reactor Engineering*, Vol. 5, pp. A15.1-7, 2007.

CONFERENCE PRESENTATIONS

- Kozo Saito, Kazunori Kuwana, Tianxiang Li, Wahed Wasel, Rodney Andrews, Dali Qian, Eric A Grulke, Jiayi Shan "Synthesis of multi-walled CNTs from flames and CVD reactors" Seventh International Conference on the Science and Application of Nanotubes, June 18 - 23, 2006 Nagano, Japan
- W. Wasel, C. Carter, K Bradley. " Using successful STEM diversity programs to a move toward an institutional change at the University of Kentucky" CIRTl Forum May 25-26, 2005, University of Wisconsin Madison, WI

PROFISSIONAL MEMBERSHIPS

- National association of Industrial technology (NAIT)
- American Society of Mechanical Engineers (ASME)
- American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHREA)

SERVICES

- November 10, 2007 MSU open house
- November 07, 2007 14th Annual Mathematics, Physics, and Technology Exploration (MPATE) Day
- September 14, 2007 Tech. Prep. advisory team meeting, Frankfort, KY
- October 04 2007 Adults back to school program, Mt. Sterling
- September 27 Eastern Kentucky Technology Education Association (EKTEA) Meeting on September