

RESEARCH ACTIVITIES

M.S. Thesis Committee member

- Advising one (1) M.S.M.E. students (KFUPM-ME, 2002-)
- Co-advising two (2) M.S.M.E. student (KFUPM-ME, 2003-)
- Advised one (1) M.S.M.E. student (KFUPM-ME, 2002-03)
- Advised one (1) M.S.E.E. student (KFUPM-EE, 2002-03)
- Co-advised one (1) Ph.D. Student (Monash University, completed 2001)
- Co-advised two (2) M.S.M.E Student (Monash University, completed 99,01)
- Advising nine (9) Final Year Projects (KFUPM, 2003-)
- Advised five (5) Coop AME students (KFUPM, 2000-2002)
- Advised three (3) Final Year Projects (KFUPM, 2002)

MAJOR REPORTS AND OTHER PUBLICATIONS

- **“Heat Transfer Study for Advanced Fire Training Center”**, KFUPM-RI, Project Final Report submitted to SAUDCONSULT, Al-Khobar, K.S.A., January (2002)
- **“Measurement of On-road and Wind Tunnel Turbulence using a Flying Dynamic Probe ahead of Passenger Cars”**, Submitted to Ford Motor Company, USA/ Ford Motor Company, Australia, Sep 1998.
- **“Computational Fluid Dynamics Model for Dust Suppression during Transport of Limestone on Train Wagons”**, Submitted to Freight-Corp Inc., NSW, Australia, April 1998.
- B. Mansour, **“Three Dimensional Scene Construction Using Passive Stereopsis Method for Navigation of Mobile Robots”**, Review Paper, 29 pages, Monash University, June 1997.
- B. Mansour, **"Scientific Visualization in Fluid Flow and Heat Transfer Applications,"** Videotape no. 073, Center for Instructional Services, Purdue University, March 1992.

- B. Mansour, A.A. Mohamad and R. Viskanta, “**User’s Manual for Float Glass Stretching and Heat Transfer in a Tin Bath of a Float Glass Production Line**”, prepared for Glass Technical Center, Glass Division Ford Motor Company, USA, March 1991.
- B. Mansour, “**Thermal Modeling of Flat Glass Stretching**”, PhD Thesis Proposal, Purdue University, USA, Feb. 1989.
- B. Mansour and R. Viskanta, “**User’s Manual for a Dynamic Energy Efficiency Model of a Float Glass Melting Furnace**”, prepared for Glass Technical Center, Glass Division Ford Motor Company, Dec. 1987.
- B. Mansour, “**Interactive Two-Dimensional Flow Tracing**,” Graphics Computer Program, Purdue University, November 1987.
- Viskanta and R. B. Mansour, “**A Report on Heat Transfer in Glass Melting Furnace Regenerators**”, prepared for Glass Technical Center, Glass Division Ford Motor Company, Nov 1986.

WORKSHOPS, TRAININGS, SEMINARS AND CONFERENCES Organized/Presented

- B. Mansour, A. Ansari, T. Pervez and A. Faris, “**Computational Fluid Dynamics and Heat Transfer (CFDHT) Workshop and Short Course** “(5 days), Presented for Scientists and Engineers from The Malaysian Institute of Nuclear Technology, International University Malaysia, Kuala Lumpur, Malaysia, May 13-17, 1996.
- B. Mansour, “**Computational Fluid Dynamics Seminar and workshop**” (1 day), International University Malaysia, Kuala Lumpur, Malaysia, 12 Dec. 1995.
- Viskanta and R. B. Mansour, “**Experimental and theoretical investigation of mixed convection in shear-driven and buoyancy-aided vertical cavity**,” Poster Presented at The Tenth International Heat Transfer Conference, Brighton, UK, Dec 1994
- B. Mansour and R. Viskanta, “**Fluid Flow and Heat Transfer in Shallow Cavities Driven By Shear and Buoyancy**,” Poster Presented at The Winter Annual Meeting of The American Society of Mechanical Engineers, Anaheim, California, USA, Nov. 8-13, 1992.

- B. Mansour, “**Scientific Visualization and Computer Graphics for Fluid Flow and Heat Transfer**”, Purdue University, USA, April 1992.
- Viskanta, and R.B. Mansour, "**Radiative and Convective Heat Transfer in Furnaces For Materials Processing**," Presented at The International Conference on Transport Phenomena in Material Processing, Hawaii, USA, March 1992.
- Mansour, “**Short Study on the Automotive Sector in Tunisia**”, Presented in a TSS Summer Meeting, Tunis Tunisia, Aug. 1991.
- Mansour, “**Three Dimensional Computer Modeling of Transport Phenomena During Float Glass Manufacturing**”, Presented in a TSS Summer Meeting, Tunis, Tunisia, Aug. 1991.
- Mansour, “**Computer Simulation of Flat Glass Manufacturing**”, Presented during a TSS Seminar, University of Michigan, Ann Arbor, USA, May 20, 1989.
- Mansour, “**Three Dimensional Energy Efficiency Model of Float Glass Furnace**”, Purdue University, USA, March 1987.

Attended

- ASME International Mechanical Engineering Congress and Exposition, Nov. 12-17, 1995, San Francisco, California, USA
- FLUENT CFD Software 5-day Training, New Hampshire, USA, Nov 6-10 , 1995.
- International Conference for Advanced Manufacturing, Johor Baru, Malaysia, 1995.
- Advanced Flight Control Technology for Modern Aircraft, Short Course, Dec 14, 1994, Kuala Lumpur, Malaysia.
- A Course on Digital Radio Communications, UTM, Kuala Lumpur, Malaysia, Aug. 23-27, 1994.
- Seminar on Instrumentation and Process Control Technology, German-Malaysian Institute, Kuala Lumpur, Malaysia, March 3, 1994
- Computational Fluid Flow and Structural Analysis Applications in Research and Industry, University of New South Wales, NSW, Australia, August 1994.