

RESEARCH ACTIVITIES

M.S. Thesis Committee member

- Effect of heat treatment on the flow induced corrosion of Al-SiC(P) composites at elevated temperature,” August 1995, KFUPM
- Role of intermetallic particles in initiation and control of localized corrosion of Al-SiC Composites,” May 2001, KFUPM
- Corrosion Characteristics of scandium alloy Al 5052 in neutral sodium chloride solution,”
- Mechanical, Microstructural and corrosion characteristics of advanced Al-Mg alloys with Scandium and Zirconium additions at elevated temperatures.

Participation In International and National Projects as Co-Investigator

- **KACST Funded Project:** “Corrosion-Erosion Characteristics of Al-SiC Composites at Elevated Temperatures and Controlled Velocities in Marine Environment” KACST-AR-14-65. (Completed) 2001
- **KFUPM-German Project.** “The Effect of Flow Induced Corrosion on the Corrosion Resistance of Cu-Ni alloys and Steel in Seawater Containing Suspended Solids Particles,” Project approved by KACST and the Ministry of Science & Technology, Germany. (Completed) 2000
- **KACST Funded Project.** “Role of Intermetallic particles in initiation and Control of localized corrosion of Al-SiC Composites,” KACST-LG-3-13 (Completed), 2002
- **SABIC Funded Project.** “Suitability of Nickel Beryllium alloy as Futuristic Condenser tube Material for Salt Water Environment,” (Completed), June 2003
- **KFUPM-Fast Track Funded Project.** “ A study of Water Sorption Characteristics of Aluminum Powder filled Epoxy Adhesive “ (Completed), December 2003
- **ARI Grants – KFUPM.** “Electrochemically synthesized conducting polymer films as primer for protective coatings on mild steel” (Completed) March 2004

- **KFUPM-SABIC Funded Project:** “The Erosion-Corrosion of a high performance discontinuously reinforced Aluminum matrix composites Al-6092-17.5 SiC (P) in marine environment,” SABIC 2002-09, (Completed) April 2005
- **ADC funded project.** “ Development of a hybrid model for enhancement of learning for multidisciplinary area, (Completed) April 2005
- **IGS-CES.** Use of nanoparticles in development of long life and self cleaning coatings for harsh environment, (Completed) May 2006
- **KFUPM Funded Project:** Exploring the corrosion behavior of new generation scandium reinforced aluminum alloys for service performance – KFUPM – INT 288 (In progress)
- **KFUPM-Fast Track Funded Project** "Mechanical properties of TiN coated and duplex treated Ti-6Al-4V" -Fast track 2005/15 – (Completed – Final Report submitted)
- **KFUPM-SABIC Funded Project:** “A study on Environmental degradation of Aluminum joints bonded by rubber modified and Aluminum filled Epoxy adhesive" SABIC – 2006/15 (In Progress)
- **KFUPM Funded Project:** Ceramic Oxide Thin Film Gas Sensor for monitoring of Carbon Oxide" (In progress)
- **KFUPM-SABIC Funded Project:** “Surface Improvement of cemented carbide cutting tool: Method of Laser Treatment" SABIC – 2007/21 (In Progress)