Selected Final Technical Reports (T) and Manuals (M)

- T1. "Heat Exchanger Tube Sheet Hole Enlargement Limit (Phase II)", Final Report, Saudi-Aramco ME2203, June, 2007.
- T2. "Temperature and Frequency Effects on Fatigue Crack Propagation Rate in CPVC and HDPE Pipes" Final Report, SABIC/KFUPM, SAB2003/15, Nov 2005.
- T3. "Study on PVC Pipe Products and Causes of Failures", Final Report, Sabic R&T Riyadh CRP 2216, Oct. 2005.
- T4. "Development of a Pass-Through Electric Submersible Pump, Phase I: Technical Feasibility Study" Final Report, Saudi-Aramco, CPM2230, February, 2004.
- T5. "Design of an Intelligent Telepresence Robotic System", Final Report, KACST AT 20-80, April 2004.
- T6. "Investigation of Heat Exchanger Tube Sheet Hole Enlargement", Final Report, Saudi-Aramco ME2203, Feb.2001.
- T7. "Crack Initiation and Growth in CPVC Weld Zone," Final Report, Saudi-Aramco PN20015, July, 2000.
- T8. "Computational Residual Stress Analysis for Induction Heating of Welded BWR Pipes," RP 1394 for Electric Power Research Institute, Palo Alto California, June 30, 1981.
- M1 Merah, N. and Al-Zaharnah, I. "Machine Design Laboratory Manual: General Design Procedures and Guidelines", KFUPM, 2001.
- M2 **Merah, N.** "Machine Design Laboratory Manual: Design Procedures, Guidelines and Solutions", KFUPM, 2002.
- M3 Eleiche, A., Merah, N. and Sheltami, K., "Machine Design Cookbook", KFUPM, 2004.

Funded Research Projects

- 1. PI "Natural and Accelerated Weathering Effects on Tensile and Impact Properties of CPVC Pipe Material". **KFUPM Project**, Project No. IN080408, (SR 248,000) 2008-
- 2. Co-PI "Exploring The Effect of Thickness on the Crack Tip Plastic Zone and Crack Initiation Angles", KFUPM-Fast Track-SF 2008/28, (SR 75,000.00).
- 3. CI "Determination of Maximum Boiler Swing Rates" Saudi-Aramco funded 2.5 year project # ME2277, (SR 1,500,000), May 2007-Dec. 2009.
- 4. CI "Design and Manufacture of an Unmanned Ground Vehicle", **KFUPM-RI** funded 1.5 year project (SR 183,500), Sep. 2007-Feb 2010.
- 5. CI "Environmental Degradation and its Effect on Long-Term Performance and Durability of Glass Fiber Reinforced Composite Used in Oil Production/Transportation pipes", Saudi-Aramco funded 5 year project # ME2236, (SR 1,900,000), May 2004-Jan. 2010.
- 6. CI "Heat Exchanger Tube Sheet Hole Enlargement Limit (Phase II)", Saudi-Aramco project # ME2203, (SR 1,283,000), 5/2004-5/2007.
- 7. CI "Study on PVC Pipe Products and Causes of Failures", Sabic R&T Riyadh funded project # CRP 2216 (SR 950,000.00), October 2003-September 2005.
- 8. PI "Temperature and Frequency Effects on Fatigue Crack Propagation Rate in CPVC and HDPE Pipes" **SABIC** project # SAB2003/15 (SR 60,500.00), May 2003-Nov. 2004).
- 9. CI ** "Design of an Intelligent Telepresence Robotic System" **KACST** Funded two-year-375,000 SR project under the number AT 20-80 (September 2001-April 2004, Completed).
- 10. CI "Development of a Pass-Through Electric Submersible Pump, Phase I: Technical Feasibility Study" Saudi-Aramco funded project # CPM2230 (SR 750,000) (January 2003- February 2004).
- 11. CI "Investigation of Heat Exchanger Tube Sheet Hole Enlargement", Saudi-Aramco project number ME2203, SR 300,000 (1/2000-2/2001).
- 12. Co-PI "Crack Initiation and Growth in CPVC Weld Zone," Saudi-Aramco funded two-year, SR 412,000 project under the number 20015, (8/1998-8/2000).
- 13. CI "Computational Residual Stress Analysis for Induction Heating of Welded BWR Pipes," RP 1394 Electric Power Research Institute, Palo Alto California, Jan. 1979-June, 1981.
- 14. CI "Measurement of Sound Level in Industrial Fishing Reels", Zebco, USA funded 3 month project, 1979.

Other Projects

1. Strategic Partnership and Faculty Recruitment Project (SUPR) (May 2006- March 2007). *Project funded by KFUPM (about SR 1,000,000.00).*

^{**} received 1 local and 1 national award