

Keynote lectures and conferences by invitation

- C1. **Merah N.**, Al-Aboodi A., Shuaib A. R., Al-Nassar Y. and Al-Anizi S. S., "*Combined Effects Of Tube Projection And Initial Tube-Tubesheet Clearance On Rolled Joint Strength*" Proceedings of AMPT2006, Las Vegas, USA, 31 July -3 Aug, 2006 (Keynote lecture).
- C2. Invited Participant in International Conference on Materials Research and Education: Future Trends Opportunities, 4-6 April 2005, Doha, State of Qatar.

Papers published in refereed proceedings

- C3. Nizam, S., **Merah N.**, Khan and Al-Sulaiman, F. "Sea Water and Temperature Effects on Tensile and Stress Rupture Strengths of Glass Fiber Reinforced Vinylester and Epoxy Pipes", 3rd International Conference on: Applications of Traditional and High Performance Materials in Harsh Environments, AUS UAE, Jan. 2008.
- C4. **Merah, N.**, Al-Aboodi A., Shuaib A. N., and Al-Nassar, "3-D FEA of the Effects of Large Overtolerances on Rolled Tube-Tubesheet Joint Strength", AMPT 2007, South Korea, Oct. 7-10, 2007.
- C5. Al-Nassar Y., Al-Aboodi A., **Merah N.**, and Shuaib A.N., "Numerical Comparative Study of 2D Simulation of Tube-to-Tubesheet Roller and Uniform Expansion" The International Conference on Modeling, Simulation and Applied Optimization, 2007, March 24-27, 2007, Abu Dhabi, United Arab Emirates.
- C6. Al-Mouhamed Mayez A., Nazeeruddin Mohammad and **Merah N.**, "Force-Based Compliant Behaviors To Augment Telerobotics", Proceeding Of The Fourth AUS International Symposium On Mechatronics AUS-ISMA07, AUS, Sharjah, U.A.E. March 26-29, 2007.
- C7. **Merah, N.** "A Review of Life Estimation Models for Notched Components under Fatigue and Creep-Fatigue Loading", Accepted for publication in Proceedings of the International Conference on Modeling and Optimization of Structures Processes and Systems, ICMOSPS'07, 22 - 24 January (2007), Durban, South Africa.
- C8. Khan Z. and **Merah N.**, "Fractographic Analysis of Fatigue Crack Growth in CPVC at Different Temperatures and Frequencies", Proceedings of the Conference on Advances in Materials and Processing Technologies (AMPT2006), Las Vegas, USA, (2006), CD.
- C9. **Merah, N.** "Weathering Effect on Tensile and Fracture Toughness Properties of CPVC Extruded Pipe Material" Proceedings of AMPT2006, Las Vegas, USA, 31 July -3 Aug, (2006), CD.
- C10. Al-Aboodi A., **Merah, N.**, Shuaib A. R., Al-Nassar Y. and Al-Anizi, S. S. "FEA of the Effects of Initial Tube-Tubesheet Clearance, Wall Reduction and Material Strain Hardening on Rolled Joint Strength", Proceedings of ASME conference on Pressure Vessel & Piping (PVP), PVP 2006/ICPVT-11, Vancouver, Canada, (2006), CD.
- C11. Shuaib, A. N., **Merah, N.**, Ahmed, M., Al-Nassar, Y. and Al-Anizi, S., "Integrity of Roller Expanded Tube-to-Tubesheet Joints with Over-Enlarged Tubesheet Holes", Proceedings ASME-PVP 2006/ICPVT-11 Vancouver, Canada, (2006), CD.
- C12. Al-Bin Mousa J., **Merah N.**, Eleiche A., Arif, A. "Experimental & Numerical Analyses Of Mixed Mode Crack Initiation Angle" Proceedings of ESDA2006 8th Biennial ASME Conference on Engineering Systems Design and Analysis, Torino, Italy, (2006), CD.
- C13. Al-Aboodi, **N. Merah**, A. N. Shuaib, Y. Al-Nassar And S. S. Al-Anizi "Groove Geometry Effect On Roller And Hydraulically Expanded Tube To Tubesheet Joint Strength" Proceedings of International Conference on Manufacturing Science and Technology, (ICOMAST), Melaka, Malaysia, Paper No: 539 (2006), , pp. 327-330.
- C14. Al-Mouhamed M. A., Nazeeruddin, M. and **Merah N.** "Design and Analysis of Force Feedback in Telerobotics" Proceedings of 3rd International Symposium on Mechatronics, AUS-ISM06, UAE, (2006), CD.

- C15. **Merah N.**, Saghir F., Z. Khan and A. Bazoune, "Temperature effects on fatigue crack growth in HDPE pipe material", Proceedings 2nd International Conference on: Applications of Traditional and High Performance Materials in Harsh Environments, AUS UAE, (2006), CD ISBN 9948-42704-1.
- C16. Shafeeq, M. Khan, Z., **Merah, N.** and Mehdi M., "Effect Of Environment On The Tensile and Fatigue Resistance of Glass Fiber-Reinforced/Vinylester Composites" Proceedings of 2nd International Conference on: Applications of Traditional and High Performance Materials in Harsh Environments, AUS UAE, (2006), CD ISBN 9948-42704-1.
- C17. Naik, M. K., Al-Sulaiman F., Khan Z., **Merah N.**, and Mehdi M., "Low Velocity Impact Behaviour of Composite Pipes" Proceedings of 2nd International Conference on: Applications of Traditional and High Performance Materials in Harsh Environments, AUS, (2006), CD ISBN 9948-42704-1.
- C18. Al-Qahtani T., **Merah N.** and Khan Z. "Effects of Strain Rate and Temperature on Tensile Properties of CPVC Pipe Material" Proceedings of 2nd International Conference on: Applications of Traditional and High Performance Materials in Harsh Environments, AUS UAE, (2006), CD ISBN 9948-42704-1.
- C19. **Merah,N.**, Farrukh Saghir, Z. Khan and A.Bazoune, "Modeling the Combined Effects of Temperature and Frequency on Fatigue Crack Growth of CPVC", Proceedings of the Conference on Advances in Materials and Processing Technologies (AMPT2005/COMMENT2005), Wisla, Poland, (2005), CD.
- C20. **Merah N.**, F. Saghir, Z. Khan and A. Bazoune, "Variation of Mechanical Properties of HDPE Pipe Material with Temperature", Proceedings of Advances in Materials and Processing Technologies (AMPT2005), Wisla, Poland, (2005), CD.
- C21. **Merah N.**, and Saghir, F., "Frequency Sensitivity of Fatigue Crack Growth in CPVC at Different Temperatures", Proceedings of International Conference on Materials for Advanced Technologies, 2004 (ICMAT), Kuala Lumpur, Malaysia, (2004), Vol. 1, pp. 873-879.
- C22. **Merah, N.**, and Al-Qahtani, T., "Effect of Strain Rate and Temperature on Fracture Toughness of CPVC", Proceedings of the 1st International Conference on Applications of Traditional and High Performance Materials in Harsh Environments, AUS, UAE, Jan. 20-22, (2004), CD.
- C23. **Merah, N.**, Irfan-ul-Haq, M. and Khan Z., "Effects of Injection Molding Weld on Fatigue Crack Resistance of CPVC at Different Temperatures" Proceedings of AMPT2003, Dublin, Ireland, (2003).
- C24. Habib F., Khan Z., and **Merah N.**, "Effect of Aging on the Microstructure and Fatigue Strength of Alloy 800 HT" Proceedings of AMPT2003, Dublin, Ireland, (2003).
- C25. **Merah, N.**, Al-Zayer, A., Shuaib, A., and Arif, A., "Finite Element Investigation of Initial Clearance Effects on Tube-To-Tubesheet Joint Strength" Proceedings of the 6th Saudi Engineering Conference, (2002), pp. 371-384.
- C26. Khan, Z., Khan, R., AL-Sulaiman, F., and **Merah, N.** "Fatigue Damage in Woven Carbon Fabric/Epoxy Laminates at Non-Ambient Temperatures," Proceedings of the 6th Saudi Engineering Conference, (2002), pp. 313-326.
- C27. **Merah, N.**, Irfan-ul-Haq, M. and Khan Z., "Temperature and Weld Effects on Monotonic Properties of CPVC", Proceedings of the ASME Conference on Engineering Systems Design and Analysis (ESDA) ESDA 2002 Paper MAN057, (2002).
- C28. Mezghani K, **Merah, N.**, Khan, Z., Budair, M. O., Younas, M. and Olabisi, O., "Fracture Analysis of Crack Growth in CPVC Pipefittings at Different Temperatures," Processing of the 17th Polymer Society Conference, Guimaraes, (2002).
- C29. **Merah, N.**, "Detecting and Measuring Surface and Subsurface Crack Size Using Electric Potential Techniques", Proceedings of the 1st Middle East Metrology Conference, Manama Bahrain, (2002), pp. 255-266.

- C30. *Irfan-ul-Haq, M. and **Merah, N.**, "Effect of Temperature on Fatigue Crack Growth in CPVC," Proceedings of the ASME Pressure Vessel and Piping Conference, Atlanta, Georgia, PVP-Vol. 430, (2001), pp. 393-401.
- C31. Shuaib, A. N., **Merah, N.**, Khraisheh, M., I. Allam, and Al-Anizi, S., "Experimental Investigation of Heat Exchanger Tube Sheet Hole Enlargement," Proceedings of the ASME Pressure Vessel and Piping Conference, Atlanta, Georgia, PVP-Vol. 426, (2001), pp. 229-233.
- C32. **Merah, N.**, Khan, Z., Mezghani K., Budair, M. O., Younas, M. and Olabisi, O., "Crack Propagation in the Weld Zone of CPVC Couplings," Proceedings of The 9th Middle Eastern Corrosion Conference, Manama, Bahrain, (2001), pp. 465-478.
- C33. Khan, Z. **Merah, N.**, Mezghani, K. Olabisi, M. O., and Budair, M. O. "The Fatigue Resistance Crack of CPVC Pipe Fittings," Proceedings of The 9th Middle Eastern Corrosion Conference, Manama, Bahrain, (2001), pp. 479-489.
- C34. **Merah, N.** "High Temperature Fatigue and Creep-Fatigue Crack Growth Monitoring by Electrical Potential Technique" Proceedings of the AMPPT'99 and IMC 16 International Conference, Dublin, Ireland, (1999), Vol. 2, pp. 983-991.
- C35. Bui-Quoc, T., Bernard, M. and **Merah, N.** "Crack Propagation from Notches under LCF Conditions: Fatigue Crack Propagation at room and High Temperatures," Proceedings of The ASME Pressure Vessel and Piping Conference, Honolulu, Hawaii, (1995), 306, pp. 171-178.
- C36. **Merah, N.**, Bui-Quoc T., and Bernard, M. "A K_t -Based Method for Calculating LCF Life of Notched Specimens," Proceedings of The ASME Pressure Vessel and Piping Conference, Denver, Colorado, (1993), Vol. 263, pp. 91-98.
- C37. Shadley, J. R., **Merah, N.** and Reybicky, E. F. "The Effect of Induction Heating Stress Remedies on Existing Flaws in Pipes," Proceedings of The ASME Pressure Vessel and Piping Conference, Orlando, Florida, (1982), (Paper No. 82-PVP-45).

**Best ASME-PVP, PhD Student Paper*

Conferences with published abstracts only

- C38. **Merah N.** "*Weathering Effects on GFRP Pipes*" Materials Engineering and Corrosion Control Technical Meeting, Saudi Aramco, Dhahran, Nov. 19-21, 2007.
- C39. Hussein, I., **Merah, N.**, Al-Gahtani, H. and Ahmad S., "*Study on PVC Pipe Performance for Water Distribution*" VCM-PVC-CED, Mideast-Conference, Dubai, Feb. 21-22, 2005.
- C40. **Merah, N.** "Analysis of the Causes and Remedies of Cracks in BWR Piping Systems and in Large Pipes," Intl. Conf. on Industrial Safety, University of Batna, June 15-17, 1986.
- C41. **Merah N.** and Reybicky, E. F. "Evaluation of the Interaction of Flaws and Residual Stresses," AIAA Symposium, University of Tulsa, Feb. 21-22, 1981.

Conference and Seminar Presentations

More 20 Local and International conference and seminar presentations.