

BIOGRAPHICAL SKETCH

Jianren Zhou

Professional Preparation

Iowa State University, Mechanical Engineering, Ph.D., 1991.

Appointments

- 2007-Present Interim Head, Department of Mechanical Engineering, Prairie View A&M University, Prairie View, TX.
- 2004-Present Professor, Department of Mechanical Engineering, Prairie View A&M University, Prairie View, TX.
- 1997-2004 Associate Professor, Department of Mechanical Engineering, Prairie View A&M University, Prairie View, TX.
- 1991-1997 Assistant Professor, Department of Mechanical Engineering, Prairie View A&M University, Prairie View, TX.

Publications (Over 70 refereed papers in international/national journals, conferences, and symposiums; * indicates student coauthors)

1. J. Zhou, S. Aghara, R. Wilkins, J. Moore*, and Y. Zhong, "Space radiation shielding effectiveness and radiation effects on properties of polyimide bonded martian regolith", 17th International Conference on Composites or Nano Engineering (and in World Journal of Engineering), Honolulu, Hawaii, July 26 - August 1, 2009.
2. L. Carson, P. Traisawatwong*, J. Zhou, and G. Regisford, "Indication of Single Wall Carbon Nanotubes Dispersion States", 17th International Conference on Composites or Nano Engineering (and in World Journal of Engineering), Honolulu, Hawaii, July 26 - August 1, 2009.
3. P. Traisawatwong*, J. Zhou, C. Laura, and G. Regisford, "AFM Characterization of Poly(Methyl Methacrylate) and Poly(Ethylene Glycol) Deposited by Ink-Jet Printing", 17th International Conference on Composites or Nano Engineering (and in World Journal of Engineering), Honolulu, Hawaii, July 26 - August 1, 2009.
4. S. Martinez-Vilarino*, Y. M. Strzhemechny, C. A. Quarles, J. Zhou, and D. Hui, "Free volume studies in polymer layered silicate nanocomposites subjected to thermal cycling", 15th International Conference on Composites/Nano Engineering (ICCE15), Haikou, China, July 15 – 21, 2007.
5. J. Zhou, T. Song*, S. Vilarino*, and R. Wilkins, "Characterizations of carbon nanotubes upon radiation exposures", Society for the Advancement of Material and Process Engineering (SAMPE) Technical Conference, Dallas, TX, November 6 – 9, 2006.
6. S. Vilarino*, S. Naya, R. Artiaga, J. Zhou, and D. Hui, "Statistical tools applied on the design of nanocomposite permeability experiments", Society for the Advancement of Material and Process Engineering (SAMPE) Technical Conference, Dallas, TX, November 6 – 9, 2006.
7. S. Vilarino*, S. Naya, R. Artiaga, J. Zhou and D. Hui, "Statistical tools applied on the design of experiments of nanoclay-epoxy composites", 14th International

- Conference on Composites/Nano Engineering (ICCE14), Boulder, Colorado, July 2 – 7 2006.
8. J. Zhou, J. Moore*, V. Calvin*, R. Wilkins, S. Vilarino*, Y. Zhong, B. Gersey, and S. Thibeault, “Effects of extreme radiation environment on composite materials”, Materials Research Society (MRS), 2006 Spring Meeting, Symposium II: Materails in Extreme Environments, San Francisco, CA, April 17 – 21, 2006.
 9. J. Zhou and Y. Zhong, “Effects of hygrothermal cycling on properties of glass-vinyl ester composite”, Journal of Reinforced Plastics & Composites, pp. 483–490, Vol. 23, No. 5, 2004.
 10. S. Aghara, R. Wilkins, J. Zhou, “Computational analysis of Martian regolith in Martian space environment”, The Space Nuclear Conference, San Diego, CA, June 5 – 9, 2005.
 11. R. Wilkins, H. Huff, G. Badhwar, J. Moore*, and J. Zhou, “Observation of changes in the single event upset rate in 4MB SRAM due to intervening materials in a neutron environment”, 6th European Conference on Radiation and Its Effects on Components and Systems (RADECS 2001), September 10–14, 2001, Grenoble, France.
 12. Y. Zhong and J. Zhou, “Study of thermal and hygrothermal behaviors of glass fiber/vinyl ester composites”, Journal of Reinforced Plastics and Composites, Vol. 18(17), 1999, pp. 1619-1629.

Synergistic Activities

- 1) NASA Educator Astronaut Minimum Qualifications Review Panel, June 2003.
- 2) Served in a NASA Review Panel, May 2000.
- 3) Chairman, Curriculum Committee of College of Engineering, Prairie View A&M University, 1994 – 2008.
- 4) Editorial Advisory Board of Transactions of FAMENA, 2/2004-present.
- 5) Session Chairman of 7th, 10th, 11th, 14th, 15th and 17th Annual International Conference on Composites/Nanoengineering, 2000, 2003, 2004, 2006, 2007 & 2009.

Awards/Honors/Services

- 1) Excellence in Research, College of Engineering, Prairie View A&M University, December, 2001.
- 2) Excellence in Service, College of Engineering, Prairie View A&M University, December, 2001.
- 3) Referee to review over 20 research journal papers for 5 journals.

Thesis Advisor, Postgraduate-Scholar Sponsor, and Mentor for Undergraduate Students

- 1) Advisor of over 25 graduate students.
- 2) Advisor of 4 Post Doctoral Scholars.
- 3) Mentor of 28 undergraduate research assistants.