

Farhang Pourboghrat Biographical Sketch

Dr. Farhang Pourboghrat received his BS and MS degrees in Mechanical Engineering Department in 1981 and 1983, respectively, from the University of Iowa. He earned his PhD degree in Mechanical Engineering in 1992 from the University of Minnesota-Twin Cities. He served as a Staff Scientist at the Alcoa Technical Center from 1990-1998 working in the Fabricating Technology Division. While at Alcoa, Farhang worked on constitutive model development for sheet metal forming, springback, and forming of complex hollow extrusions for Audi A8 all aluminum vehicle. In 1998, he joined the Mechanical Engineering Department at Michigan State University as an assistant professor, and was promoted to the rank of full professor in 2009. He spent his sabbatical leave in 2005 in the Materials Science Department at Rice University. In August of 2015, he will join the Ohio State University as a full professor with a joint appointment in the Integrated Systems Engineering Department, and the Mechanical and Aerospace Engineering Department.

Dr. Pourboghrat's research interests are in the areas of materials processing, including warm forming of sheet metals and tube hydroforming, with emphasis on metal forming simulations using crystal plasticity and advanced phenomenological yield functions. His current research involves characterization and modeling of aluminum alloys, niobium, tin, third generation advanced high strength steel (3GAHSS), in addition to polymer composites reinforced with glass, bio-fibers, carbon, clay nanotube, and graphene nano-platelets. His research has been funded by NSF, Alcoa, GM, Eaton, BAE Systems, Faurecia, DOE, and DOD. He has published extensively in the International Journal of Plasticity, and his research work is internationally recognized. In collaboration with Tom Stoughton (GM R&D), he co-organized the 2005 NUMISHEET conference in Detroit.

