

Raghavan Srinivasan

Professor

Date of Initial Appointment: April 1, 1989 (16 years of service)

Education

Institution	Field of Study	Degree/Date
SUNY Stony Brook	Materials Science and Engineering	Ph.D., 1983
University of Florida	Materials Science and Engineering	M.E., 1980
IIT-Madras	Metallurgy	B. Tech, 1978

Professional Experience

Position	Institution	Dates
Professor	Wright State University, Mech. & Mat. Eng.	2001-Present
Associate Professor	Wright State University, Mech. & Mat. Eng.	1994-2001
Assistant Professor	Wright State University, Mech. & Mat. Eng.	1989-1994
Visiting Scientist/Sabbatical	AF Research Lab. (AFRL/MLLM)	2004-2005
Summer Faculty	AF Research Lab. (AFRL/MLLM)	Summer 1996
Research Assistant Professor	Wright State University, Mech. & Mat. Eng.	12/1985-03/1989
NRC Resident Research Associate	AF Wright Aeronautical Lab. (AFWAL/MLLM)	12/1983-12/1985

Consulting

Activity	Institution	Dates
Metals Processing Research	US Air Force Materials Directorate	Various
Materials Selection	CNOneStop	2004

Principal Publications (Last 5 Years)

Journal (41 total)

1. B. Cherukuri and R. Srinivasan, "Properties of AA6061 Processed By Multi-Axial Compressions/Forging (MAC/F)," accepted by Materials and Manufacturing Processes, April 2005
2. R. Srinivasan, M. Balathandayuthapani & W. Yan, "Temperature Changes and Loads During Hot Die Forging of a Gamma Titanium Aluminide Alloy" by Journal of Materials Processing Technology, Vol. 160, pp. 321-334, 2005
3. N. Yust, R. Nekkanti, L. Brunke, R. Srinivasan, and P. Barnes, "Copper Metallic Substrates HTS Coated Conductors," Superconductor Science and Technology, Vol. 18, pp. 9-13, 2005
4. R. Srinivasan and P. Chaudhury "Forging Studies with Severe Plastic Deformation Processed Aluminum Alloy 6061," Materials Science Forum, Vol. 426-432, pp. 267-272, 2003
5. J.L. Pierce, L.P. Zawada, and R. Srinivasan, "Tensile Properties of Nicalon Fiber-Reinforced Carbon Following Aerospace Turbine Engine Testing," Journal of Materials Engineering and Performance, Vol. 12, No. 3, 2003
6. Z. Li, R. Grandhi, and R. Srinivasan, "Distortion Minimization during Gas Quenching Process," Journal of Materials Engineering and Processes, pp 125-134, 2001
7. R. McLaughlin and R. Srinivasan, "A Parametric Study of Dynamic Recrystallization using the Monte Carlo Method", Materials and Manufacturing Processes, Vol. 16, No. 6, pp 763-778, 2001.
8. J.J. Sun, E.J. Taylor, and R. Srinivasan, "MREF-ECM Process for Hard Passive Materials Surface Finishing" Journal of Materials Processing Technology, Vol. 108, No. 3, pp. 356 – 368, 2001.
9. R. Srinivasan, "Computer Simulation of the Equal Channel Angular Extrusion (ECAE) Process," Scripta Materialia, Vol. 44, pp. 91-96, 2001.
10. R. Srinivasan and G. Puttaswamygowda, "A New Method for Testing the Abrasive Properties of Paper and Other Sheet Materials," ASTM Journal of Testing and Evaluation, JTEVA, Vol. 29, No.1, pp. 72-78, 2001.
11. S.C. Medeiros, Y.V.R.K. Prasad, W.G. Frazier, and R. Srinivasan, "Microstructural Modeling of Metadynamic Recrystallization in Hot Working of IN 718 Superalloy," Materials Science and Engineering A, A293, pp 198-207, 2000
12. J.L. Finch, L.P. Zawada, and R. Srinivasan, "Tensile Behavior of SiC/C and Rene'41 Following Isothermal Exposure and Thermal Fatigue," Journal of Materials Science 35(12), pp. 2973-2984, 2000

Conference Proceedings (34 total)

1. R. Srinivasan, B. Cherukuri, and P.K. Chaudhury, "Scaling up of Equal Channel Angular Pressing (ECAP) for the Production of Forging Stock," Proceedings of NanoSPD3, The Third International Conference on Nanomaterials by Severe Plastic Deformation, , Fukouka, Japan, September 22-25, 2005.
2. P. K. Chaudhury, B. Cherukuri, and R. Srinivasan, "Scaling up of Equal Channel Angular Pressing (ECAP) and its Effect on Mechanical Properties, Microstructure, and Hot Workability of AA 6061," Proceedings of the Langdon Symposium held in conjunction with the TMS Annual Meeting, San Francisco CA, February 2005.
3. P. Chaudhury and R. Srinivasan, "Material And Energy Savings In Forging With Stock Produced By Severe Plastic Deformation (SPD)," Proceedings of the Fall 2002 Forging Industry Association Technical Conference, Cleveland OH, 2002
4. B.D. Joyce, S.L. Semiatin, and R. Srinivasan "High Temperature Deformation and Recrystallization Behavior of Ti-10V-2Fe-3Al," CD-ROM issue of Journal of Materials Processing Technology, Edited by T. Chandra, K. Higashi, C. Suryanarayana, and C. Tome, Elsevier Science, 2001.
5. Z. Li, R. Grandhi, and R. Srinivasan, "Optimum Design of Process Parameters to Minimize Distortion during Gas Quenching Process," Microstructure Modeling and Prediction during Thermomechanical Processing, Edited by R. Srinivasan, et al., TMS, Warrendale, Pennsylvania, pp 125-134, 2001.
6. K.E. Huber, D.B. McCray, and R. Srinivasan "Optimization of Sandpaper Sol-Gel Surface Preparation" Processing and Fabrication of Advanced Materials IX, Edited by T.S. Srivatsan, R.A. Varin, and K.A. Khor, ASM International, Materials Park, OH, 2001.

Patents (4 total)

1. "Optimizaton and control of microstructure development during hot metal working: a new technique using modern control theory," by J.C. Malas, W.G. Frazier, E.A. Medina, V. Seetharaman, S. Venugopal, R.D. Irwin, W.M. Mullins, S.C. Medieros, A. Chaudhary, R. Srinivasan, United States Patent No. 6,233,500, May 15, 2001.
2. "Method and device for measuring abrasive properties of paper and other sheet materials," United States Patent 6,612,150, September 2, 2003
3. "Continuous Severe Plastic Deformation (CSPD) Process," by R. Srinivasan, P. Chaudhury and S. Viswanathan, Patent application filed June 2002

Professional Memberships

1) ASM-International, 1979-present 2) TMS/AIME, 1987-present 3) ASTM, 1998-2003, 3) Alpha Sigma Mu, 1980-present 4) Tau Beta Pi, 1980-present 5) Phi Kappa Phi 1980

Honors and Awards (Since Joining WSU)

1) Excellence in Research, College of Engineering and Computer Science, 1993 2) Nominated by College of Engineering and Computer Science for WSU Brage Golding Distinguished Professor in Research, 2004

Institutional and Professional Service (Last 5 years)

Department Committees: Materials Program Curriculum Committee 1990-present ;Graduate Admissions Committee 1990-2001; Faculty Search Committees 1989-90, 1992-93, 1996-97, 2000-01, 2001-2002, 2002-2003; Petitions and Admissions Committee 2001- present

College Committees: Steering Committee 2003-2004 (Scribe 2003-04); Engineering Ph.D. Committee 2002 –2004; Academic Mediations Committee 2001-2003; Faculty Development Committee 1997-99, 1999-2000, 2002-2004; Due Process Committee 1998-2000 (1998-99: Scribe); Engineering Ph.D. PCC, 1997- 2001 (Focus area chair 2000 - 2004)

University Committees: Faculty Affairs Committee 2001-02

Reviewer for Professional Journals: Metallurgical and Materials Transactions (editorial board 1996-present), Materials and Manufacturing Processes (editorial board 2002-2004), Journal of Materials Engineering and Performance (editorial board 1994-1996), Journal of Materials Shaping Technology, Journal of Engineering for Industry, Intl. Journal for Numerical Methods in Engineering

Other Professional Service: Alpha Sigma Mu International Materials Honor Society (President 1998-1999, member of board 1996-present, Faculty advisor Epsilon-Ohio Chapter 1990-present); Technical Steering Committee – Edison Material Technology Center (EMTEC), member of TMS/ASM (Titanium Committee 1995-present, Shaping and Forming Committee 1989-present, Refractory Metals Committee 1989-1994, Mechanical Behavior Committee 2002-present); Organizer for symposia in TMS Annual Meeting Anaheim CA 1996, TMS Fall Meeting Indianapolis IN 2001, Thermec-2003 International Conference on Thermomechanical and other Processing Madrid Spain 2003, MSE&T New Orleans LA 2004; Session chair at various symposia (ASME-ESSDA 1996, Thermec-2000, Thermec-2003, TMS/ASM 2001, 2002)

Professional Development Activities (Last 5 years)

WSU Winter Quarter Faculty Workshop on Active Collaborative Learning, Winter 2001
WSU Winter Quarter Faculty Workshop on Improving Student Learning, Winter 2002.
Professional Developmental Leave/Sabbatical – AFRL/Materials Directorate, 2004-2005