

1. Name and Academic Rank

Adel A. Sharif, Assistant Professor

2. Degrees with fields, institution, and date

1998 Doctor of Philosophy
University of California, Irvine
Materials Science Engineering
Specialization: Structural Materials

1995 Master of Science in Materials Science Engineering
University of California, Irvine
Specialization: High Temperature Materials

1992 Bachelor of Science in Mechanical Engineering
California State University, Los Angeles

3. Number of years service on this faculty, including date of original appointment and dates of advancement in rank

Date of original Appointment: 9/2002

Number of years service: 3

4. Other related experience--teaching, industrial, etc.

Academic Experience:

2000 to 2002 Assistant Professor
University of Michigan, Flint

1998 to 2000 Post-Doctoral Researcher
Los Alamos National Laboratory

1992 to 1998 Graduate Student Researcher and Teaching Assistant
University of California, Irvine

Industrial Experience:

1991 to 1992 Air Quality Engineer
Los Angeles Department of Water and Power, Los Angeles, CA

5. Consulting, patents, etc.

6. State(s) in which registered

7. Principal publications of last five years

A.A. Sharif, A. Misra, and T.E. Mitchell: "Strength of MoSi₂-based Single Crystals at Ultra-High Temperature", *Scripta Materialia* vol. 52 pp. 399-402 (2005).

A.A. Sharif and M.L. Mecartney: "Superplasticity in Cubic Yttria-Stabilized Zirconia with 10 wt.% Alumina", *J Europ. Ceram. Soc.* 24, pp. 2041-2047 (2004).

A.A. Sharif and M.L. Mecartney: "Superplasticity in Cubic Yttria-Stabilized Zirconia with Intergranular Silica", *Acta Mater* vol. 51, pp. 1633-1639 (2003).

A.A. Sharif, A. Misra, and T.E. Mitchell: "Deformation Mechanisms of Polycrystalline MoSi₂ Alloyed with 1 at% Nb", *Materials Science Engineering A* vol. A358 pp. 279-287 (2003).

A.A. Sharif, A. Misra, J.J. Petrovic, and T.E. Mitchell, "Alloying of MoSi₂ for Improved Mechanical Properties" *Intermetallics*, vol. 9 No 10-11, 869-873 (2001).

A.A. Sharif, A. Misra, J.J. Petrovic, and T.E. Mitchell, "Solid Solution Hardening and Softening in MoSi₂ Alloys", *Scripta Mater.* vol. 44 No. 6, 879-884 (2001).

A.A. Sharif, A. Misra, J.J. Petrovic, and T.E. Mitchell, "Anomalous Effects of Alloying with Nb on the Yield Strength of MoSi₂" Proceedings of the AeroMat 2001, Long Beach, CA (2001).

A.A. Sharif, A. Misra, J.J. Petrovic, and T.E. Mitchell, "Slip Systems in Erbium Single Crystals" *Key Eng. Mater.*, **171**, 801-808 (2000).

A.A. Sharif, A. Misra, J.J. Petrovic, and T.E. Mitchell, "Elastic Constants of Erbium Single Crystals", *J. Am.*

Ceram. Soc., **83**, No. 9, pp. 2246-2250 (2000).

A.A. Sharif, A. Misra, J.J. Petrovic, and T.E. Mitchell, "Dislocation Motion in Erbium Single Crystals" *Mater. Sci. Eng. A.*, vol. 290, No. (1-2) pp. 164-170 (2000).

A. Misra, A. A. Sharif, J. J. Petrovic and T. E. Mitchell, "Rapid Solution Hardening at Elevated Temperatures by Substitutional Re Alloying in MoSi₂", *Acta Mater.*, vol. 48 No 4, 925-932 (2000).

A. Misra, A. A. Sharif and T.E. Mitchell, "Anomalous Effects of Substitutional Alloying on the Mechanical Behavior of MoSi₂" *Fab. Adv. Mat.* pp. 187-195 (2000).

J. J. Petrovic, A. A. Sharif, A. M. Kukla, R. S. Romero, D. Mendoza, and F. M. Pitek, "Mechanical Behavior of Erbium Oxide Single Crystals", Proceedings, AcerS 24th Annual Cocoa Beach Conference, Cocoa Beach, Florida, January 24-28, 2000.

8. Scientific and professional societies of which a member

American Society of Mechanical Engineers

9. Honors and awards

10. Institutional and professional service in the last five years

Recruitment:

Introduced Engineering to 6 Different Audiences

Department Committee Service

2002 – Present Mechanical Engineering Department representative for CFA
Advisor for Mini Baja Competition
Advisor for ASME
Advisor for SAE

School Committee Service

2002 – Present Instructional Affairs Committee
Engineering, Computer Science, and Technology Student Council Advisor
School of Engineering and Technology Member of the High School Speakers
Bureau

University Committee Service

2004 – Present External Awards Committee

11. Professional development activities in the last five years

Attendance at Teaching Related Courses, Workshops, and Conferences:

3/3/03 TMS Annual Meeting and Exposition, San Diego Convention Center, San Diego, CA
9/15/03 CSEM: Materials at the Fore: Beckman Institute, California Institute of Technology, Pasadena, CA
9/9/03 ASME Region IX Leadership Development Seminar, Irvine Spectrum, Irvine, CA
10/28/04 Fourth Annual Meeting of the Center for the Science and Engineering of Materials, California Institute of Technology, Pasadena, CA.
10/20/04 NAEF Dane and Louise Miller Symposium, Savannah, GA
8/1/04 NSF NCSI Workshop, San Diego, CA
4/1/04 ASEE Pacific Southwest 2004 Conference