

Farghalli A. Mohamed - Curriculum Vitae

Professor Farghalli A. Mohamed obtained his B.S. degree in Metallurgical Engineering from Cairo University, Egypt, in 1965. He received his graduate training (M.S. degree in 1970 and Ph.D. degree in 1972) from the University of California, Berkeley. After completing his Ph.D. degree, he joined the Department of Materials Science and Engineering at the University of Southern California, Los Angeles, as a Research Associate. In 1975, he was appointed as an Adjunct Assistant Professor and in 1976 he became a member of the faculty at the University of Southern California (joint appointment between Materials Science and Mechanical Engineering). In 1980, he joined the faculty of the Department of Mechanical Engineering at the University of California, Irvine as an Assistant Professor. He was promoted in 1981 to Associate Professor and in 1984 to Full Professor. Professor Mohamed is principally concerned with the relation between microstructure and the mechanical properties of materials at high temperatures. At present his research activities include investigations on superplastic flow, creep behavior of high strength aluminum alloys, metal-matrix composites, ceramics, nanocrystalline materials, and microstructures developed during creep deformation. Professor Mohamed has authored or co-authored over 150 publications in the field of mechanical properties of materials. He teaches elementary courses in materials science, dislocation theory, mechanical behavior, mechanics of materials, plasticity, diffusion, and phase transformations. From 1992 to 2005, Professor Mohamed served as the Director of the interdisciplinary Materials Science and Engineering Program in The Henry Samueli School of Engineering.

Education

<u>Degree</u>	<u>Year Conferred</u>	<u>Institution and Location</u>
B. S.	1965	Cairo University Cairo, Egypt
M. S.	1970	University of California Berkeley, California
Ph.D.	1972	University of California Berkeley, California

Professional Interests

Mechanical behavior of engineering materials (metals, alloys, composites, ceramics, nanomaterials); correlation between behavior and microstructure; creep; superplasticity; and strengthening and fracture mechanisms.

Research and/or professional

1994-	<u>Professor</u> ; Department of Chemical Engineering and Materials Science, University of California, Irvine, CA.
1984-1994	<u>Professor</u> ; Department of Mechanical and Aerospace Engineering, University of California, Irvine, CA.
1981-1984	<u>Associate Professor</u> ; Department of Mechanical and Aerospace Engineering, University of California, Irvine.
1980-1981	<u>Assistant Professor</u> ; School of Engineering, University of California, Irvine, CA.
1976-1980	<u>Assistant Professor</u> ; Department of Materials Science and Mechanical Engineering, University of Southern California, Los Angeles, CA

1975-1976	<u>Adjunct Assistant Professor and Senior Research Associate</u> , Department of Materials Science and Mechanical Engineering, University of Southern California, Los Angeles, CA.
1972-1975	<u>Research Associate</u> ; Department of Materials Science and Engineering, University of Southern California, Los Angeles, CA.
1968-1972	<u>Research Assistant</u> : Department of Materials Science and Engineering (Lawrence Berkeley Lab), University of California, Berkeley, CA.
1965-1968	<u>Teaching Assistant</u> : Department of Metallurgical Engineering, Cairo University, Egypt

Awards, Honors, and Biographical listings

- The School of Engineering University Service Award (1993)
- Cited in Science Watch Magazine for citations in Materials Science for the period 1990-1994 as number 20 in the world for citations per paper (see Attachment).
- Fellow of ASM International (for significant contributions to research and leadership in Materials Science education, 1996)
- Award of Excellence in Teaching at UCI (2002)
- Recognized by the Institute for Scientific Research as one of the most highly cited, influential researcher in the field of Materials Science and Engineering (2003)
- UCI Engineering Faculty of the year (2003)
- Fariborz Maseeh Best Faculty Teacher Award (2004)
- American Men & Women of Science (16th Edition)
- Who's Who in Engineering (Fifth and Seventh Edition)
- Who's Who in the West (20th Edition)
- Who's Who in the World (Fifth Edition)
- Who's Who in Technology (Fourth and Fifth Edition)
- International Who's Who in Engineering (Fifth Edition)
- The International Directory of Distinguished Leadership (First Edition)

Professional Service and Activities

- Member of the Review Board of Metallurgical and Materials Transactions.
- Member of the Editorial Board of Materials Science and Engineering
- Reviewer (Journals): Metallurgical and Materials Transactions, Acta Materialia, Philosophical Magazine, Materials Science and Engineering A, Scripta Materialia; Materials and Manufacturing Processes, J. Materials Research
- Reviewer (Funding-agencies): National Science Foundation, The Air Force Office of Scientific Research, Research Council, Department of Energy The Institute of Geophysics and Planetary Physics (IGPP), Los Alamos National Laboratory.
- Member of panels for reviewing proposals (the National Science Foundation).
- Member of the ASM International Committee on Mechanical Behavior.