Curriculum Vitae

Prof. Dr. Mehdi Farshad

Swiss Federal Laboratories for

Materials Testing and Research (EMPA)

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Education:

1968-1971 Doctoral Degree (Ph.D.), Applied Mechanics, Stanford University, U.S.A.

1965-1968 Master of Science (M.S.) and Professional Degree (PE) in Civil Engineering & Applied

Mechanics, Columbia University, New York, U.S.A.

1960-1964 Engineering degree (BS) in Civil Engineering, University of Tehran, Iran

Professional Experience:

1991-> Senior Research Scientist at the Swiss Federal Laboratories for Materials Testing and

Research (EMPA), Dübendorf, head of engineering group, section Polymers/Composites

1998-2000 President, Research Commission, EMPA

1991-> Lecturing at the Swiss Federal Institute of Technology, ETH Zürich,

Titular professor since 1995

1971-1991 Professor, school of engineering, university of Shiraz, Iran

1971-1991 Consultant in various engineering projects, including failure analysis, product development

1985-1986 Visiting professor, university of Toronto, Canada 1974-1975 Visiting professor, university of Toronto, Canada

1971-> Conception, management, and realization of numerous engineering projects
1971> Supervision of numerous international research and development projects

Areas of expertise

Polymeric materials, composite materials, shell structures, dynamics and vibrations, stability, modeling and Finite Element analysis, Piping systems, biomechanics, structural systems

Areas of recent research

Composite materials and structures, multifunctional materials, smart materials and systems, magnetoactive polymers and composites, modeling of material systems with coupled electromechanical magnetoelastic behavior

Awards:

1991 Citation and prize for publication of the book-of-the year entitled Design, Analysis, and

Construction of Gabion Structures

1989 Presidential citation and prize as the "Outstanding Scientist" for R&D in shell structures

1966 Citation for outstanding achievement, Columbia University, USA
1964 Medal of Science, for academic achievement, university of Tehran

1960 Medal of Science, Iran Ministry of Education

Honors:

1995 Titular Professor, Swiss Federal Institute of Technology (ETH) Zurich

1990 Member of the *Iranian Academy of Sciences*

Professional Affiliations:

1995-present Member of the Expert Group for Mechanics and Industry, ETHZ

1994-present Member of ISO /TC 138/ SC4 WG 5 (RCP)

1990-present Member of the advisory committee of Scientia Iranica

1988-present Member of the advisory committee of Iranian Journal of Science and Technology
1978-1982 Member of the elasticity committee of the American Society of Civil Engineers (ASCE)

Publications and patents:

Papers: about 180 papers in international journals

Books: 29 books, including:

• M. Farshad, Design and Analysis of Shell Structures, Kluwer Academic Publishers,

Dordrecht, 1992

• M. Farshad, Stability of Structures, Elsevier, Amsterdam, 1994

M. Farshad, Systems Thinking with Applications to Materials and Structures (in

preparation)

Patents: End connection system for CFRP tensile elements