

Resume

Farhang Sefidvash is:

- Professor of nuclear engineering at the Federal University of Rio Grande do Sul (UFRGS) since 1979.

Education

- Ph.D. : Doctor of Philosophy Degree in Nuclear Engineering from the Imperial College of Science and Technology of the University of London, England (1967).
- M.Sc. : Master of Science Degree in Nuclear Engineering from the North Carolina State University, Raleigh, N.C., U.S.A. (1964).
- D.I.C : Diploma of Imperial College from Imperial College of Science and Technology, London, England (1967).
- B.Sc. : Bachelor of Science Degree in Mechanical Engineering from West Virginia University, Morgantown, W.Va. U.S.A.(1961)

Permanent member of the honorary societies.

- Member of Tau Beta Pi , the American Engineering Honorary Society, since 1961.
- Member of Pi Tau Sigma, the American Mechanical Engineering Honorary Society, since 1960.
- Member of Sigma Pi Sigma, the American Physics Honorary Society, since 1962.
- Senior Scientist of the International Centre for Theoretical Physics, ICTP, Trieste, since 1988.

Distinctions

- Ranked number one in the graduating class of 1961 in the Mechanical Engineering Department of West Virginia University.
- Recognition of Teaching and Research Council of the Federal University of Rio Grande do Sul (COCEP) giving distinction to the merits of the research on the new nuclear reactor concept FBNR (1984).
- Classification as researcher of 1st category by “Conselho Nacional de Desenvolvimento Científico e Tecnológico - CNPq”, the scientific organization of the Brazilian government.

- 1958 Pi Tau Sigma award, 1961 American Society of Mechanical Engineering (ASME) regional award, 1961 ASME local award, 1959 & 1964 Iranian Government awards for scholastic achievements.

Scientific Achievements.

- Author of a new neutron scattering model for organic moderators.
- The inventor of a new nuclear reactor concept, namely the Fixed and Fluidized Bed Nuclear Reactor (FBNR).
- The winner of 1999 Best Social Innovation Award conferred by the Institute for Social Inventions, England.

Founder

- The founder and coordinator of the Research Centre for Global Governance, RCGG.
- The founder and director of World Institute of Retired Scientists, WIRS.

Specializations

- *Fallout Shelter analyst and Environmental Engineer for Shelters.* Certified by the United States Defense Department (1961). Register No. FTT0158564-601.
- *Nuclear Fuel and Power Management,* Massachusetts Institute of Technology (MIT), Boston, USA (1974).
- *Nuclear Reactor Physics Burnup.* Sponsored by the IAEA held in Mol, Belgium (1974).
- *Engineering of Waste Heat.* Organized by the Massachusetts Institute of Technology (MIT) held in Belo Horizonte, Brazil (1979).
- *Winter Programs on Nuclear Physics and Reactor.* Sponsored by IAEA and held at the International Centre for Theoretical Physics (ICTP) in Trieste, Italy in 1978, 1980, 1982, and 1986.

Consultancy

- Consultant ad hoc to the International Atomic Energy Agency, IAEA.
- Consultant to the “Conselho Nacional de Desenvolvimento Cientifico e Tecnologico - CNPq” the scientific organization of the Brazilian government.

Professional Experiences

- Professor at the Department of Nuclear Engineering of the Federal University of Rio Grande do Sul (since 1979).
- Visiting Scholar at the Nuclear Engineering Department of the University of Washington, Seattle, Wa. , USA (1989-90).
- Professor of Mechanical Engineering at the Arya-Mehr University of Technology (renamed as Sharif University), Tehran, Iran (1970-78)
- Consultant to the Iranian Atomic Energy Organization on the safety of nuclear installations (1972-78).
- Kraftwerk Union (KWU), Erlangen, Germany, Reactor Core Design Division, working on the problems of neutronics, thermal hydraulics and fuel management of 1300 MWe Standard Reactors (1974-75).
- Framatome, Paris, France, Nuclear Fuel Design Division, working on the problem of rod bowing in the pressurized water reactors (1976).
- Atomic Energy Commission of Finland, Reactor Laboratory, Otaniemi, Finland, performing experiments with cold neutrons (1967-70).
- Assistant Professor of Mechanical Engineering at the University of North Carolina in Greensboro, N.C, USA (1963-64).
- Research Assistant at the Imperial College of Science and Technology, London, England (1964-67).
- Teaching and Research Assistant at the North Carolina State University, Raleigh, N.C., USA (1961-63)
- Part-time Associate Researcher at ASTRA, Inc. in Raleigh, N.C, USA, working on a nuclear reactor for space. (1962-63)

Diplomatic Missions

- Member of an Iranian government scientific mission to create Regional Science Foundation for the countries of Iran, Pakistan, and Turkey under the “Regional Cooperation for Development - RCD” program with headquarter in Islamabad, Pakistan (1977).
- Participation in scientific negotiation meetings in regards to nuclear agreements between Iran and West Germany, France and the United States (1971-78)

Publications

- Author of more than 120 scientific publications.