

Tetsuo SHOJI



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Professor Tetsuo SHOJI received his Ph.D. in 1975 in Mechanical Engineering at Tohoku University, in Sendai, Japan. He got a position as a research associate of School of Engineering, Tohoku University in 1975. He was promoted to associate professor in 1984 and to full professor of Tohoku University in 1986.

He has been serving various positions in the University, such as director of Fracture and Reliability Research Institute, Vice-Dean of School of Engineering (for research), and Executive Vice-President of Tohoku University (research and international affairs). After he serviced the administrative mission as a board member of the University, he returned to the Fracture and Reliability Research Institute as a distinguished professor in 2008. Since then, he is also working as a Co-Director of CNRS Engineering and Science Lyon – Tohoku Joint Laboratory (ELyT lab.).

He has been working on mechanistic work of materials degradation and long term materials reliability in energy conversion systems based upon physics and chemistry of fracture with Fracture Mechanics, Electrochemistry and Materials Science. He co-authored more than 450 refereed papers, 16 book's chapters and submitted 22 patents.

Prof. Shoji was and is still involved in various committees, as for instance, as an expert member of US Nuclear Regulatory Commission («Proactive Materials Degradation Assessment» Experts' Panel), and as a member of Scientific Advisory Committee of European Commission PERFECT Project, etc. He is a member of the Editorial Board of Corrosion Science . More recently, he works on Proactive Materials Degradation Management research where he organizes an International Experts' Panel on Aging Mechanisms and manages more than 40 international experts on materials aging degradation.

Fracture and Reliability Research Institute is a member of Scientific Network of Materials Aging Institute, EdF. Professor Shoji received 14 national awards and 6 international awards including W. R. Whitney Award from NACE-International in 1998 and Lee Hsun Award, Institute of Materials Research, Chinese Academy of Science in 2007.

Professeur Tetsuo SHOJI a obtenu son doctorat en 1975 en génie mécanique à l'Université de Tohoku, à Sendai au Japon.

Après avoir occupé diverses fonctions au sein de son Université, parmi lesquelles celles de vice-Président à la Recherche et aux Relations Internationales et membre du Conseil de l'Université, il est revenu en 2008 en tant que « Distinguished Professor » à l'Institut de Recherche sur la Rupture et la Fiabilité qu'il avait dirigé auparavant, institut membre du réseau scientifique de l'Institut de Vieillesse des Matériaux d'EDF.

Il est également codirecteur du Laboratoire International Associé ELyT Lab « Engineering and Science Lyon - Tohoku Laboratory », en association avec le CNRS.

Il a étudié les mécanismes de dégradation et la durabilité des matériaux dans les systèmes de conversion d'énergie, en faisant intervenir la physico-chimie et la mécanique de la rupture. Il a contribué à plus de 450 articles scientifiques, 16 chapitres d'ouvrages scientifiques et 22 brevets.

Professeur Shoji est membre en tant qu'expert de nombreux comités scientifiques internationaux. Il a reçu de nombreux prix nationaux et internationaux.