

SHORT BIOGRAPHY

Cetin Morris SONSINO was educated at the Technische Universität Darmstadt (mechanical engineering diploma in 1972). He started his professional career at the Fraunhofer-Institute for Structural Durability (LBF), Darmstadt, in the department „Stress Analysis and Fatigue Evaluation“ (1973-1984), headed the department „Component Related Material Behaviour“ from 1985 to 2003, and since 2003 has been member of the “Managing Board” of the institute as well as head of the Business Unit “Automotive and Research Associations”. In 1995 as well as 2003 he was appointed as Deputy Director of the institute. Since 2012 he is scientific-technical advisor of LBF.

In 1982 he received his Dr.-Ing. degree with a thesis on the „Influence of Cold Working on Low-Cycle Fatigue“ from the Technische Universität Darmstadt. He was visiting professor at the University of Trento / Italy for „Fatigue in Powder Metallurgy“ in 1991 and 1992, was from 2004 to 2011 visiting professor at the University of Calabria/Cosenza/Italy for “Fatigue Design”, gave lectures 2012 at the University of Udine on “Structural Durability” and “Fatigue Design of Welded Joints” and has been lecturing since 1990 at the University of the Saarland „Component Related Material Behaviour under Constant and Variable Amplitude Loading“, where he was appointed as professor in 1995, and since 2002 at the Technische Universität Darmstadt “Structural Durability”, where he was appointed as professor in 2008. Since 2008 he is lecturing also at the AutoUni of Volkswagen.

His main professional fields are random amplitude fatigue, low-cycle fatigue, high-temperature fatigue, corrosion fatigue, development and fatigue life evaluation of welded, cast, forged, sintered and fibre reinforced plastic components and structures under service loading.

In 1986 he received the European Powder Metallurgy Federation (EPMF) Award for fatigue design of PM components, in 1995 the Joseph-von-Fraunhofer-Award for design of multiaxially loaded welded structures, in 1998 the European Powder Metallurgy Association (EPMA) Award of Merit for Innovations in Powder Metallurgy for the development of highly fatigue loaded, corrosion resistant seawater pump impellers, in 2001 the August Woehler Medal of the German Society of Materials Research and Testing (DVM) for his contributions in fatigue research, in 2005 the Skaupy Award of the German Association for Powder Metallurgy (FPM) for his merits in powder metallurgy, in 2008 the European Structural Integrity Society (ESIS) Award for his merits in the fatigue assessment of multiaxial and variable amplitude loadings in 2010 the Réaumur Medal of the Société Française de Métallurgie et de Matériaux (SF2M) for transmitting fatigue knowledge into practice and in 2010 the Erich-Siebel-Award of the DVM for his contributions in structural durability. 2012 he received from the International Institute of Welding the IIW Best Paper Award about experimental and numerical consideration of overload effects in spectrum loading of welded high-strength steel joints.

He has about 400 publications, 4 books, 140 seminars and lectures at conferences, universities and companies in Europe, USA and Far East and 3 patents.

Prof. Dr. C. M. Sonsino

July 2012