



**Dr. Aleksandar Sedmak, professor emeritus**, was born in 1955, in Belgrade Serbia. He finished top Serbian high school (Mathematical Gymnasium) in 1973, graduated from the Faculty of Mechanical Engineering University of Belgrade (hydro-energy department) in 1978, M.Sc. from the same faculty in 1982. and D.Sc. from the Faculty of Mathematics, University of Belgrade, 1988. In 2021 he became professor emeritus at the University of Belgrade. He is the full Member of Academy of Engineering Sciences of Serbia.

**Working experience.** Since 1979 assistant, 1990 assistant professor, 1995 associated professor. 2001 full professor at the Faculty of Mechanical Engineering University of Belgrade. Visiting professor at Drexel University, USA, 1999-2002. Assistant Minister for Science and Technology Development 2003-2006. Vice-rector for international cooperation, University of Belgrade, 2006-2009. Director of Innovation Center of the Faculty of Mechanical Engineering in Belgrade, 2006-2021.

**Education and training.** Teaching since 1979 at the Faculty of Mechanical Engineering, University of Belgrade. Main topics are Engineering Materials, Welding, Numerical Methods, Fracture Mechanics, Structural Integrity. One of the founders of the module Welding and Welded Structures, at all levels of education (B.Sc, M.Sc, D.Sc). He also teaches Biomaterials at Bioengineering department. Advisor for 64 D.Sc. thesis, including foreign students, mostly from Libya, multidisciplinary studies at the University of Belgrade, as well as foreign universities (Timisoara, Skopje). He has published several textbooks on Welding, Computational and Fracture Mechanics.

**Scientific and research activities.** He published more than 300 papers in WoS journals with more than 5000 citations,  $h=34$  (SCOPUS), more than 300 papers in other journals, monographs and conferences, in total close to 1,000 references, mostly in Fracture Mechanics, Welding and Material Science. He was coordinator for more than 10 national projects and 12 international projects in the scope of EUREKA, bilateral, H2020, FP7, TEMPUS, COST, COSME and Interreg programs. He is the President of Serbian Structural Integrity and Life Society and Editor-in-chief of Structural Integrity and Life Journal (Scopus, eSCI), member of editor boards of top ranked international journals (Engineering Fracture Mechanics, Engineering Failure Analysis, FFEMS), and reviewer of a number of prominent world journals in Fracture Mechanics. He was the Chairman of European Conference on Fracture (ECF22), Belgrade, 2018.

**Engineering contribution.** He has several technical solutions, applied in industry (e.g. RHPP Bajina Basta), and over 100 reports for engineering projects and laboratory research. Strong cooperation in number of industrial projects, including renewal of Refinery Pancevo, i.e. sanitation of equipment damaged during bombardment in 1999. Member of Committee of Belgrade city council for best patent of the year from 2006-2014. He is the European Welding Engineer, licenced by European Welding Federation (EWF). One of the founders of the international welding engineer courses in Serbia, member of Steering Committee of Serbian ANB, and president of the exam committee for Serbia.

In the scope of **international cooperation** he has visited number of short visits to foreign Universities, especially through partnership in projects like TEMPUS-HUTON, coordinated by him, EUREKA, bilateral projects with Slovenia, Croatia, Romania, Czech Republic and Slovakia, H2020 (SIRAMM in cooperation with Politehnica Timisoara, IPM Brno, NTNU Trondheim and University of Parma, ), FP7, COSME and Interreg. He is longstanding member of prominent societies, such as ESIS (Vice-president 2014-2022, President since 2022, co-chairman of TC12, TC18 and TC20), AWS and ASME, honorary member of Italian Group on Fracture (IGF) and honorary professor at Brasov University since 2016, as well as foreign member of Hungarian Academy of Engineering Sciences since 2017. He has received Manson-Coffin medal from IGF and Robert Moskovic Award from TC12, as well as one-year professor fellowship from University of Brasov. He delivered many invited lectures and seminars worldwide, (Duke University, Durham, Drexel University, Philadelphia, USA, Technical Faculty University of Maribor, Technical Society, Tripoli, Libya, Brasov Univeristy, Romania, Miscolc

University Hungary, Xidian University Xian China, Chinese Academy of Science Beijing, NTNU Trondheim).