

Technical Sciences Academy of Romania Honorary Member Prof. Emeritus Ioan DAVID, PhD

Prof. emeritus Ioan DAVID was elected as honorary member of the Academy of Technical Sciences Romania in the General Assembly that took place on June 2019. He is member of the Construction and Urbanism Section of the Academy of Technical Sciences.

Prof DAVID born in 1940 received the Dipl. Ing. degree in Civil engineering in 1963, the Diploma in mathematics in 1972 and the Ph.D. degree in 1973. In 1976-77 he performs a post-doctoral research program as "Alexander von Humboldt" fellow at the Technical University Darmstadt, Germany publishing the research results as Technical rapport Nr. 19, 1977 of the Hydraulic and Hydrology Department, Technical University Darmstadt (equivalent habilitation). *Prof. David performed his university teaching activity as assistant professor, associate professor (1964-1989) and since 1990 as full professor and PhD scientific supervisor in Civil engineering (about 25 PhD title). In the period 1993-2005 he was visiting professor for Numerical fluid dynamic and Groundwater modelling at the Technical University Darmstadt, Germany: http://www.iib.tu-darmstadt.de/mitarbeiter_iib/team_iib.de.jsp. In October 2005 restarts his professorship at the "Politehnica University" in Timisoara, Romania until his retirement in 2010. He is since 2006 also visiting professorship at the University of Applied Science Giessen, Germany where currently give semester lectures in the field of Renewable Energy (Waterpower and Wind power).*

The relevant international recognised achievements and performances in research and technic can be summarized as follow:

- *Elaboration of about 200 scientific papers as author/co-author published in Journals and Proceedings of International Conferences (e.g. Journals of the Romanian Academy, French Academy, Russian Academy) and Proceedings of numerous International Conferences (Austria, France, Germany, Greece, Netherlands, Romania, UK, USA etc.). Several examples to publication subject are: Extension of standard integral representations for solutions of groundwater flow and transport processes coupling Analytical Element Method (AEM) and Boundary Element Method (BEM) applied in conception and implementation of complex groundwater recharge/discharge systems (e.g. Groundwater recovery/recharges systems in "Hessisches Ried" Germany). He is author/co-author of 17 books some of them publishing abroad like Groundwater Hydraulic, Springer-Vieweg, 1998, Germany; Mathematical-Numerical Modelling of Technical Systems, Couvillier-Göttingen, 2005, Germany; Basics for modelling of flood runoff using advanced Hydroinformatics tools, (2015), IGI Global, USA.*
- *Coordination of laboratory experimental research programs for sizing of various hydraulic plants in frame of over 60 implemented water engineering projects in Romania and Germany.*



- *Coordination of International Cooperation Projects among others: TEMPUS Joint European Project "Environmental Sound River Basin Development", (TU. Delft, TU Karlsruhe, TU Wien, TU Budapest, TU. Timisoara), (1991-1993); LEONARDO DA VINCI EU-Project "Development of knowledge centres for flood risk management using advanced Hydroinformatics tools" (Romania, Hungary, Czech Republic) (2012-2013) and so on.*

Prof David performed notable activities in several professional and scientific organizations at national and international level as member or in leadership such as: American Romanian Academy of Arts and Sciences (ARA) vice president (2005-2009) and general secretary (2009-2013); External corporation of Hungarian Academy of Sciences (MTA) (2006); Consulting engineer in "Ingenieurkammer Hessen" (IngKH) Germany (2005); General Association of Romanian Engineers; International Association of Hydrological Sciences; European Geophysical Society; Dean of the Water Engineering faculty (UPT) (1990-2004); Scientific secretary of the Senate of Polytechnic University Timisoara; Editor in Chief of Transactions on Hydraulics, "Politehnica" University of Timisoara;

Prof. David obtained also several academic distinctions among another: Diploma awarded of the German Foundation "Alexander von Humboldt" for scientific research (1992); Academic title of Honorary Professor of the Technical University of Darmstadt Germany (1999); Title of Excellence from the Foundation "Polytechnica" (2010); Emeritus professor of the University "Politehnica" of Timisoara (2015); Marquis Who's Who (2006-2007) and Hübners Who's Who (2007).