



Gajić Dj. Aleksandar, Full member of the Academy of Engineering Sciences of Serbia from 2009. (Corresponding 2002.), Full Professor at University of Belgrade Faculty of Mechanical Engineering since 1996. He was Head of Department for Hydraulic machinery and energy systems 2011-2015. He has been visiting professor at Institute of Fluid Science, Tohoku University, Sendai, Japan in 1993/94., University Politehnica Timisoara, Romania 2010 and University Chalmers, Goetheborg, Sweeden 2013. He was a member of the Executive Committee International Association for Hydraulic Research, Section for Hydraulic Machinery and Cavitation, in four terms between 1996. and 2008. He was born 1950, August 25-th in Belgrade. Graduated at Fac. of Mech. Eng. in Belgrade in 1974., M.Sc. in 1978., Ph.D. in 1983. He is married, wife Snežana (born Popara), has two daughters, Jelena Djindjić and Ivana Gajić.

He has taught 7 graduate courses and 6 post-graduate courses. He has worked part time at the Faculty of Natural Sciences and Mathematics, Faculty of Electrotechnical Engineering, Faculty of Mechanical Engineering Kraljevo and Faculty of Techniques, Podgorica. He has been member of the commission for selection of professors at the Universities in Belgrade, Kragujevac, Niš, Novi Sad, Podgorica, Montenegro, Skopje Macedonia, Timisoara, Romania and Goetheborg, Sweeden. Prof Gajić has given a number of lectures and seminars at the universities, institutions and companies in Great Britain, Japan, Yugoslavia, China, Macedonia and Serbia. He has delivered invited lectures in a number of international symposia held in Brazil, Yugoslavia, Japan, China, and Serbia.

Prof Gajić has been involved in several research and engineering organizations: he has been a member of the Institution of Diagnostic Engineers - sect. Experts-International Directory, since 1987, president of Yugoslav (Serbian) Institution for Standardization - Commission for Hydraulic Machinery since 1992, committee member of Yugoslav (Serbian) Association for Hydraulic Research since 1994. He has also been a member of IEC-TC4, International Electrical Commission, Technical Committee - Hydraulic Turbines, as the 1995. He was Special Advisor to Minister of mining and energy (2009-2011) and State Secretary in Ministry for education, science and technological development (2013-2014).

He was a member of the Executive Committee and the President of the Council of the Faculty of Mechanical Engineering, and member of Council of Faculty for architecture, University of Belgrade. He was also President of Governing Board of "Belgrade Waterworks", and member of Governing Boards of Thermo Power Plants "Nikola Tesla" Obrenovac, Institute "K. Savic" and Urban Planing Institute of Belgrade. Now he is member of Supervisory Board of Electric Power Industry of Serbia – EPS. He was a member of the Editorial Board of the international journal "FME Transactions".

The research interest of prof. Gajić has been in the domain of the analysis of flow in hydraulic machinery and systems, optimal exploitation of the multifunctional water supply and hydropower systems, development of the methods reliability and availability of hydro power plants. He has developed mathematical models and numerical programs for hydraulic transient analysis and also experimental methods for on-site tests. These numerical-experimental studies, under his supervision, were applied to the HPP "Iron Gate I" which resulted in an increase of the unit output from 174MW to 205MW and HPP "Perućica" total power output from 245MW to 305 MW! He commissioned more than 10 hydropower plants, and supervised the investigations of more than 35 water supply and hydropower systems, tested several turbine models. He participated in designing of equipment for hydropower and thermopower plants in Yugoslavia, Iraq, Iran, Jordan, and Cyprus and in preparing tendering documents for more than 10 hydraulic systems. He has designed and tested pumps for chemical and petrochemical industry, small fans for refuges ventilation, high pressure fans and blowers, boiler fans. He was the leading researcher for the analysis of accidents in 40 bar hydrogen compressor system in oil refinery Pancevo, and its reconstruction. He is author or co-author of several software packages for elastic and rigid waterhammer analysis in hydraulic installations. He made transient analysis for more than 50 large hydraulic systems.

Prof. Gajić author or co-author more than 10 university books, 20 textbooks, over 200 papers in Serbian, English and Russian, several of them are invited papers at international symposia and seminars or published in journals, and over 200 research Reports. He has been head of 21 national or regional research projects, participated in realization of 30 research studies. He has about 100 citations published in international and national journals and symposium or congress proceedings, as well as in Citation Index, by authors from the USA, Russia, China, Germany, Japan, Brazil, Czech, Norway, Uruguay, Swiss, etc. Prof. Gajić presented the invited papers and seminars in Great Britain, Brazil, Japan, Yugoslavia, China and Serbia and participated in numerous international symposia and congresses. He was member of programme or scientific committee of many international meetings held in Belgrade, Madrid, Charlotte, Tokyo, Timisoara, Barcelona, Yokohama, Iguasu, Brazil, Beijing, and Montreal. He was Vice-chairman of the 15-th IAHR Symposium, Belgrade, 1990. and chairman of the Int. conferencies "Case Studies in Hydraulic Systems", held in Belgrade, 2003., IAHR WG Meeting Cavitation and Dynamic Problems in Hydraulic Machinery and Systems, Belgrade, 2011, and finally Energy and Ecology Industry EEI2018, Belgrade.