



Biography of Georgios Anastassakis

He is Professor at the National Technical University of Athens (NTUA), School Mining and Metallurgical Engineering, in the field of Mineral Processing and Director of the corresponding Laboratory. He graduated from NTUA 1983 and got his Doctoral degree in 1989. He started his career in 1989 as university teaching-associate by contract (1989-92), employed in LARCO GMMSA Ferronickel Co. (1992-94), and elected Lecturer in NTUA in 1994. Since then, he was successively promoted to Assistant, Associate and first-rank Professor in 2009. He served as Vice-Dean of the School (2014-2020), Head of the Division of Metallurgy and Materials Technology (2010-14) and member of several academic administrative committees of NTUA and the School, among which the following: Vice Chair of the NTUA Board of Undergraduate Studies (2015-2019), NTUA Quality Assurance Board (2015-2019, 2019-2023), Administration Board of the School Mining Eng. and Metallurgy, NTUA (2016-20 and 2020-2023). Also, member of Greek Organization of Academic Degrees Accreditation (2008-2015), Greek Central Examination Board (1996-8, 2003-4) for students' admission into Greek Universities from foreign universities and Greek Technology Institutions, elected member of the Board of Directors of the Scientific Society of the Mineral Wealth Technologists of Greece (1996-2014), elected member of the Administrative Board of the Greek Association of Mining Engineers and Metallurgists (1998-2000), etc.

He has been involved in many research projects referred to issues of Mineral Processing such as: Recovery of uranium from lignite, Gold recovery, Processing of many mineral deposits (sulfides, phosphates, feldspars, kyanite and sillimanite, antimonite, barite, magnesite, nickeliferous laterites, wollastonite, coal, chromite, quartz, volcanic tuff, pumice, etc.) by means of physical and physicochemical methods, Surface Chemistry of Minerals and Hydrodynamics of flotation, Flotation of sulfides and industrial minerals with environmental friendly collectors (organosolv lignin), Fine and ultra-fine particles processing by means of hydrophobic agglomeration processes (selective agglomeration, magnetic coating magnetic seeding), Flocculation and thickener operation both at industrial and lab scale, Electro-osmotic dewatering of red mud slurry, Iron removal from industrial minerals, study on the factors affecting fine particle generation in rotary kilns GMM SA LARCO Ferronickel. A significant part of his research refers to Sustainability issues through applying Mineral processing techniques on issues such as: Separation of

fine valuable materials from electric waste stream, Copper recovery from waste electric cables, Metal Separation from electric and electronic waste, Recovery of by-products from processing tailings (e.g. nickel from slag, quartz from nickeliferous laterite processing, magnesite from rejected material before hand-sorting), Management of SPL waste, Heavy metal ion and phosphates removal from waste waters by flotation and by using natural sorbents (minerals, chitosan), Soil cleaning using flotation, Metals recovery from wastewaters, Water purification from oil, etc. The results of his research have been presented in many international Congresses and Symposia and published in referred scientific journals, Congress Proceedings volumes, and chapters of international books. He has served as reviewer of numerous international journals referred on Mineral Processing, Surface Chemistry, Colloids, Adsorption, Waste treatment, and other Environmental issues; also, he has been reviewer of many papers submitted for publication in volumes of Congresses Proceedings, and of international research-project proposals.

He is member in international editorial boards, and served as Editor of the Greek journal "Mineral Wealth" (1994-2012). He has been invited to give several lectures in foreign Universities, Associations, seminars and Symposia and participated in several congresses, scientific meetings, and seminars. He served as National Representative of Greece in EU Coal and Steel Advisory Group-Steel Subgroup (2008-2010); Country Representative as Member of the Expert Group on Risk Management in the Extractive Sector (European Commission Directorate-General for Environment Waste Management & Secondary Materials) (2020-today); Country Representative as Member of EU Technical Advisory Group on Risk Management in the Extractive Sector (2020-today). He was also the Chairman of the XII Balkan Mineral Processing Congress (Delphi-Greece, 2007) and the editor of the proceedings. He is member of various professional and scientific bodies, among which: IMPC International Advisory Committee, Balkan Mineral Processing Congress (BMPC) Scientific Committee, Balkan Academy of Science on Mineral Technology BASMT, International Organizing Committee of the International Coal Preparation Congress (ICPC) (corresponding member), Society for Mining, Metallurgy and Exploration Inc. (SME) (2000-2010), International Solid Waste Association (ISWA) (2000-2010), Scientific Advisory Board of MiMeR (Minerals and Metals Recycling) Research Center at Lulea University of Technology, Sweden (2002-4), etc.