

Professor Ghaly's Short Biography



Dr. Abdelkader Ghaly is a professor of Biological and Environmental Engineering in the Process Engineering Department of the Faculty of Engineering at Dalhousie University. Dr. Ghaly obtained B.Sc (1969) and MSc (1973) in Agricultural Engineering from Alexandria University, Egypt and Ph.D (1982) in Biological and Environmental Engineering from McGill University, Canada. He worked as an assistant lecturer at Alexandria University, Egypt (1973-1975), Graduate Assistant/Special Lecturer at McGill University, Canada (1975-1979), Assistant Professor and Head of Departmental at University of Zambia, Zambia (1979-1982) and Professor, Director of International Programme and Director of Graduate Programs at Dalhousie University, Canada since 1982. He was a Visiting Professor at University of Guyana (Guyana), University of Trinidad (West Indies), University of Sierra Leone (Sierra Leone), University of Bogor (Indonesia), University of

Oriento (Cuba), Utah State University (USA), University of Nigeria (Nigeria), University of Sana'a (Yemen), University of Agriculture (Slovak Republic), King Saud University (Saudi Arabia), King Monkut Institute of Technology (Thailand) and Harbin Institute of Technology (China).

Professor Ghaly specializes in the area of biotechnology (including microbial kinetics, production of high value molecules such as nutraceuticals, pharmaceuticals, cosmetics and industrial chemicals from waste materials, process control and development of fermentation technology), the area of environmental engineering (including waste characterization, management and utilization, remediation of contaminated air, water and soil, environmental assessment and development of environmental technology), the area of industrial ecology (including ecoefficiency, zero emission, life cycle analysis, integrated industrial biosystems and sustainable development) and the area of energy (including characterization of biomass, size reduction, agglomeration, production of biogas, bioethanol and biodiesel, gasification, fluidized bed hydrodynamic, modeling, energy management and development of energy technology).

Professor Ghaly established and directed several large international projects in developing countries (Zambia, Egypt, Nigeria, Guyana, Trinidad, Barbados, Antigua, Thailand and Sierra Leone), evaluated governmental policies and provided consulting services in several countries. He published 237 referred journal papers (in 42 international journals), 53 papers in refereed conference proceedings and 163 technical reports, and made 240 conference presentations. He supervised 47 MASc students, 26 PhD students and 73 undergraduate theses. He trained 14 Postdoctoral Fellows, hosted 24 Visiting Professors and employed 12 Scientists, 8 Technicians and 65 Co-op Students.

Professor Ghaly is a member of 13 technical societies and 14 international organizations, served as editor and editor-in-chief for 14 international journals, organized 13 international conferences and chaired 39 conference sessions. He delivered 57 distinguished lectures and gave 43 scientific interviews to TV, radio and newspaper around the world. Professor Ghaly has received 22 international awards in recognition of his outstanding contribution to research and development worldwide. He is a Past President and a Fellow of the Canadian Society of Biological Engineering and Past Trustee and a Fellow of the American Society of Agricultural and Biological Engineers.