

ALY M. SHADY, P. Eng.

Mr. Shady has led a distinguished career of over 40 years in several professional positions including academic teaching, research, extension, consulting engineering, project planning, management, and policy development. He has worked for universities, government agencies and departments, private sector as well as a self-employed consultant.

Mr. Shady has been actively associated with international development for the last 35 years in a number of capacities as independent consulting engineer, agricultural specialist, and irrigation and drainage engineer and water policy advisor. He joined the Canadian International Development Agency (CIDA) in 1979 where he established the Irrigation Sector in CIDA, and became its first head in 1988. Over the period, Mr. Shady has developed and managed more than 185 projects, in more than 38 countries in South and Central America, the Caribbean, Africa, Middle East, Asia, Eastern Europe and Central Asia. He has managed a program of total value exceeding \$1.7 billion. His main interests were the improvement of livelihood for the millions of the rural poor in developing countries. This was done through the implementation of measures for agricultural development, integrated rural development, river basin planning and management, the application of irrigation, drainage and flood control, soil salinity control and land reclamation. He worked tirelessly to promote cooperation and resolve conflicts between riparian countries emanating from transboundary water, most notably in the Nile Basin and Amu Darya and Syr Darya basins.

Among his unique contributions to international development are:

- The introduction of large scale horizontal subsurface drainage technologies for the control of salinity and water logging of irrigated lands in Pakistan, India and Egypt. These technologies enabled and impacted directly on the expansion and conservation of precious farm land and water resources to provide food and livelihood for millions of farmers in the Indus Basin in Pakistan, Rajasthan in India and the Nile Delta of Egypt.
- The application of Integrated Rural Development for balancing economic growth, natural resources conservation and social development for serving the rural poor in Honduras, Bolivia and Haiti.
- Development and use of socially acceptable and culturally adaptable concept of integrated water resources development (IWRM) as the backbone for sectoral reform in several outlying islands and provinces of Indonesia (East Java, NTT, NTB, Sulawesi) which emphasized a strong institutional building, decentralization and public participation.
- Adaptation of the Sector Wide Approach to development assistance in several sectors: Water Sector (Indonesia), Agriculture (Egypt) and Water control (Bangladesh). The concept was facilitated by sector funding earmarked to the removal of constraints and bottle necks in the system through small scale short-term interventions to ensure the successes of the main endeavors.
- Pioneering the application of the concept of multi-tracks diplomacy for transboundary water management. This was manifested in the leading of development of basin wide approach for River Nile Basin comprising 10 riparian countries (Egypt, Sudan, Ethiopia, Eritrea, Kenya, Uganda, Rwanda, Burundi, Democratic Republic of Congo and Tanzania). The approach resulted in adopting shared vision and common interest as guiding principles for development of the water resources for the benefits of all. It established and successfully completed the Nile 2002 Conference series rotating through the basin countries for 10 years; creation of TECCONILE as an interim inter-

governmental basin organization, adopting a common Plan and finally ushering in the multi and bilateral assistance for the Nile Basin Initiative (NBI) involving all basin countries and most of donors' organizations.

- Development and management of series of large scale water infrastructures from conceptual development, feasibility studies, construction and commissioning. These projects involved irrigation, drainage, flood control, drinking water supply, hydropower, navigation and river engineering in numerous countries. The most recent project is the award winning Dahla Dam in Afghanistan being the signature project for Canada in Afghanistan since 2008.
- Assisted in major water policy reforms and country strategy development mainly for Indonesia, China, Egypt and Pakistan.
- Advocated and initiated the work to adopt agriculture and food security as priority development objectives in the first decade of the 21st century.

He has devoted time to the advocacy of human rights and good governance by being active in the application of Employment Equity Act in Canada's Federal Public Service. He chairs the Visible Minorities Committee in CIDA and is a Member of the Canada's Federal Public Service, Visible Minorities Champions and Chairs Committee.

Mr. Shady has devoted a great deal of time and effort in supporting and actively participating in professional and scientific organizations and the establishment of new needed ones throughout his career.

In collaboration with several world water leaders he was instrumental in the formation of the World Water Council (WWC) in 1996 as a non-governmental, non-political, non-sectarian international water policy think tank dedicated to advise decision makers, advocate global water concerns and raise awareness of major water issues. He occupied the positions of: Treasurer, Vice President and Governor of the WWC. He went on to become the Chairman of the Vision Management Committee overseeing the implementation of the Vision for world water, life and the environment for the twenty first century. He personally participated in the several of the consultations leading to the development of the Vision in the organization of the Forum that will be centered on the presentation of the Vision. He developed and laid down the ground work for the World Water Forum (WWF) which flourished into major triennial gathering and platform for all global water related activities. He actively participated in all forums. Mr. Shady was awarded the Gold Medal of the World Water Council in 2000 in recognition of his outstanding contribution to the development of the World Water Vision. He worked tirelessly to establish the Western Hemispheric Bureau of the World Water Council in Canada in 1998 and became its first Chairman of the Board of Directors.

He spearheaded and supported the establishment of the International Program for Technology Research and Development (IPTRID) with the help of the World Bank, UNDP and other donors in 1990. IPTRID was latter hosed by the FAO was recently transferred to China's Institute of Water and Hydropower Research to continue supporting the R&D in several developing countries.

He has joined hands and participated with several water leaders in establishing the Arab Water Council (AWC) and became a member of its first Governing Board in 2006. The Arab Water Council is a major civil society organization with membership from the 22 Arabic speaking countries of: Iraq, Syria, Lebanon, Jordan, Palestine, Kuwait, Qatar, Bahrain, United Arab Emirates, Oman, Yemen, Saudi Arabia, Egypt,

Sudan, Somalia, Djibouti, Comoros Islands, Mauritania, Morocco, Algeria and Tunisia. Its membership comprises governments of the 22 Countries, regional and international organizations, private sector and NGOs actively involved in the water sector in the region. The Mission of the AWC is to promote better understanding and management of water resources for the benefits of all inhabitants of the Arab States region, the one which is facing the most severe water scarcity in the world today.

He served with distinction in the International Commission on Irrigation and Drainage (ICID) representing the Canadian National Committee of ICID (CANCID) since 1980. He served as a member of several working groups, elected Vice President (1990) and chairman of the Membership Committee (1994) and the Constitution Amendment Committee (1995-1996 and 2005-2006). He became a member of the Management Board in 1995. Mr. Shady was elected the President of ICID in 1996 for a three-year term and became President Honoraire in 1999. Under his leadership, ICID reformed its focus to adopt both social and environmental concerns in its practices and programs as well being an active advocate for the food security and rural development especially in developing countries. ICID became a major player in the field of Large Dams debate, water resources management and global issues related to pending world water crisis, globalization of trade, technology and information. The focus of the concerns centered on combating rural poverty and assuring water and food security for all inhabitants.

Mr. Shady is active in the International Water Resources Association (IWRA) for many years. He was first awarded the Distinguished Lecturers Award for 1993, elected Vice President for 1994-1997, chaired the Organizing Committee for the IWRA 9th World Water Congress held in Montreal in 1997, and has been regular contributor to its Journal Water International. He was elected as Fellow and later on became President of IWRA for 2004-2006 and continued to serve on the Board until 2009.

Mr. Shady has been a regular contributor to scientific and professional journals where he serves as member of the Editorial Boards of several periodicals dealing with Water Resources, Hydropower and Dams, Agriculture, Irrigation and Drainage. He has authored or coauthored more than 100 papers, several text books and numerous reports in these fields. He is also a regular speaker at conferences and lecturer at university campuses around the world, addressing mainly issues related to the topics of the water and food security in the 20th and 21st centuries.

Mr. Shady's outstanding contribution has been equally recognized at home and abroad. He has received several awards in this respect including: the Gold Medal of the Association of Professional Engineers of Ontario (PEO) in 1990, appointment as a fellow of IWRA in 1999 and Gold Medal of the World Water Council in 2000. He was recognized by the Head of Canada's Public Service - Award for Excellency in Policy for 2000, appointment as a Fellow by the Canadian Society of Agricultural Engineering (CSAE) in 2001, he was the recipient of the Gold Medal of the Professional Institute of the Public Service of Canada (PIPSC) in 2002, and received the Canada's Governors General - Queen Elizabeth Golden Jubilee medal in 2002. He was recognized as Distinguished Alumni by McGill University in its centennial celebration of Macdonald Campus of McGill University in 2007. He was awarded the Lifetime Achievement Award by the CANCEID in 2008 and the Star of CIDA Award in 2009.