

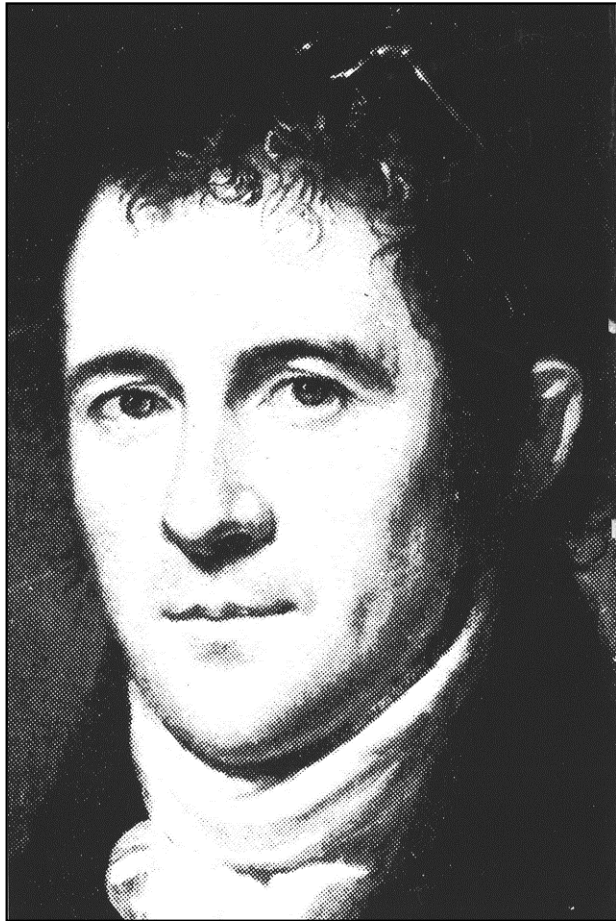


Water Works Operator's Association of Pennsylvania

Hall of Fame Awardees



Water Works Operator's Association of Pennsylvania



Benjamin Henry Latrobe

1764-1820

Benjamin Latrobe trained in England under the engineer, John Smeaton. Mr. Latrobe then immigrated to America in 1795 and in 1799, he executed the design of the City of Philadelphia water system; the first municipal water system in the United States, and first to use steam powered pumps and sedimentation basins for treatment. Later he became an architect for the construction of the U.S. Capitol Building. Mr. Latrobe died of yellow fever contracted while superintending construction of the New Orleans Water System.



Water Works Operator's Association of Pennsylvania



Ivan Maxwell Glace

1888-1958

Ivan M. Glace was a Division Engineer with the Pennsylvania Department of Health from 1910 until 1937. He became one of the early Registered Professional Engineers and one of the founders of the Water Works Operator's Association of Pennsylvania, where he was one of the first Secretaries and Editors for the organization. He was the National Director of AWWA and ASCE, National and State Sewage Works Organizations. He organized I. M. Glace Associates in 1936, which provided consulting services to municipal water and sewer systems. He was the initiator of the Ivan M. Glace Award for the Water Works Operator's Association of Pennsylvania.



Water Works Operator's Association of Pennsylvania



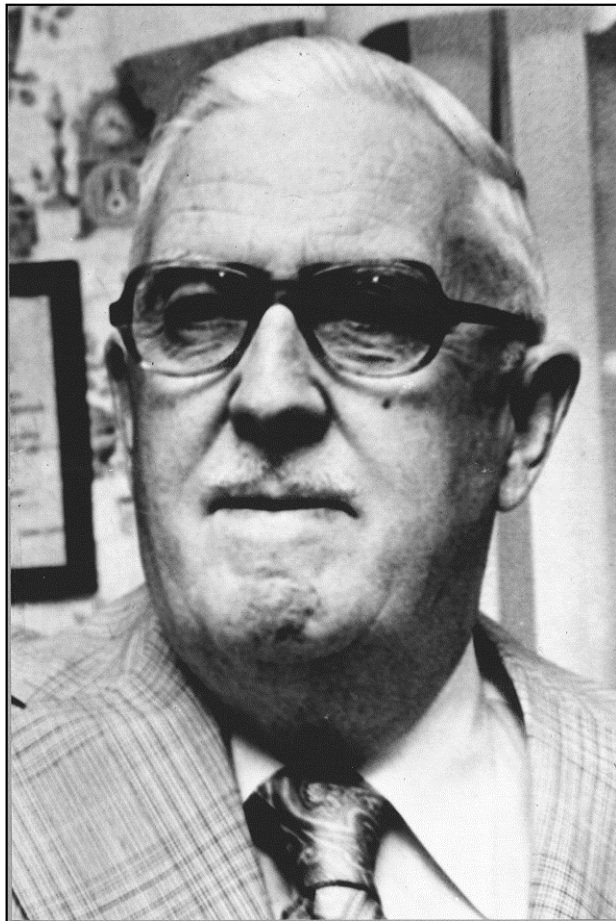
Linn Harrison Enslow

1891-1957

Linn Enslow was a 1912 graduate of Virginia Polytechnic Institute (now Virginia Tech). His early work with both the Maryland and Virginia Health Departments. He is the developer of the orthotolidine test for chlorine level and the Enslow stability indicator. He was the editor of Water and Sewage Works for many years as well as a past president of AWWA. Mr. Enslow was a Diven Medalist, a Goodell Awardee, and a Fuller Awardee.



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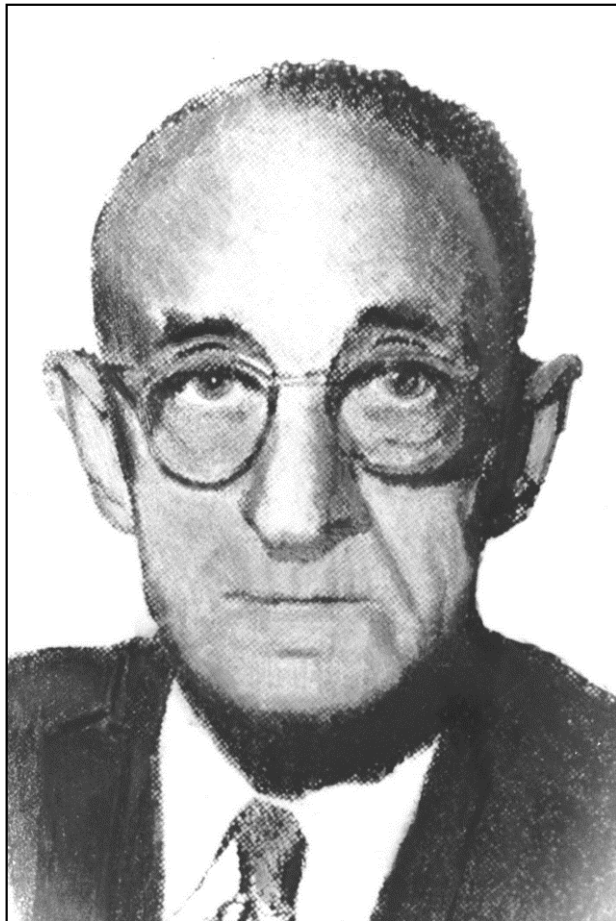
Reginald B. Adams

1907-1987

Distinguished service to the Water Utility Industry in the research, selection and installation of equipment and materials for better water quality. Dedicated service and leadership in the Operator Training and Certification Programs in Pennsylvania. His professional integrity, water treatment skills and outstanding leadership are to be recognized and commended.



Water Works Operator's Association of Pennsylvania



Harry J. Krum

1886-1976

Harry J. Krum, an Allentown, PA native, graduated from Allen High School in 1905 and the Philadelphia College of Pharmacy and Science in 1909. He was hired as Allentown's first "City Chemist and Bacteriologist" and instituted the practice of chlorinating Allentown's water supply in 1914. Mr. Krum progressed to the position of Superintendent of the City's Water Bureau and retired in 1958 following 44 years of faithful public service to his hometown where he was recognized as the "Pioneer of Allentown's Water and Health Programs". Mr. Krum was a Charter Member of the Water Works Operator's Association of Pennsylvania. He served as the organization's President in 1942 and 1943 and was the recipient of the Ivan M. Glace Award in 1954. In 1960, the WWOAP established the Harry J. Krum Award to honor Mr. Krum's distinguished service to the Water Supply Industry. Mr. Krum was a Life Member of the American Water Works Association and received the George Warren Fuller Award in 1955. He was a member of the American Chemical Society and President of the Federal Water Pollution Control Association. Mr. Krum authored numerous papers and articles pertaining to the operations of water and wastewater works and was very active in numerous civic organizations.



Water Works Operator's Association of Pennsylvania



William J. Murdoch

1908-1973

Early career spent with Pennsylvania Department of Health (DER); later worked extensively with Allegheny County. In 1939 he began serving municipal water utilities in his own practice and opened his own firm, William J. Murdoch Engineers, Inc., in the late 1940's. He was consulted by local, county and state governmental agencies and departments. Served on the advisory committee which reorganized the permitting process for the Department of Health (DER) by instituting the modular method of permit applications. Served as chairman of the Pennsylvania Section, AWWA; chairman of Pennsylvania Division of the Water Pollution Control Association; president of the Engineers Society of Western Pennsylvania. Recipient of AWWA's George Warren Fuller Award.



Water Works Operator's Association of Pennsylvania



Charles V. Roberts

1909-1989

Mr. Roberts was in the forefront in the development water treatment technologies, conceiving them, promoting them, and participating in their detailed development. An example is his leading role in advancing Dual Media Filtration and thereby the entire concept of High Rate Filtration.

Instrumental in the development of an Air Water Filter Media Surface Wash System that gained wide acceptance, he and his firm, Roberts Filter Manufacturing Company, participated in the construction of a 5 billion GPD Water Filtration System for the Atomic Energy Commission. He was also deeply interested in enhancing the status of the operators, and advocated tailoring the design of water treatment plants to the capabilities of the staff that would operate and maintain them. Mr. Roberts was a member and officer of many water industry groups and a driving force in the formation of several AWWA sections, most notably in Puerto Rico and Quebec.



Water Works Operator's Association of Pennsylvania



Kenneth E. Shull

1916-2014

Mr. Shull led the drive for improvements in the water industry for more than 50 years. His contributions include improved laboratory methods, treatment innovations, advanced management techniques, and helping to develop AWWA's Research Foundation. Mr. Shull introduced formal water works operator training in 1955 and instructed hundreds of operators. His genuine and far-reaching commitment to education he has been recognized by several universities. His equally impressive scientific contributions include methods of measuring low concentrations of aluminum, filterability techniques to improve clarification, and multi-bed filtration techniques. He has served AWWA on several national committees; as National Director, and as member of the Executive Committee. He also served as committee member, Section Trustee, Vice Chairman and Chairman of the Pennsylvania Section.



Water Works Operator's Association of Pennsylvania



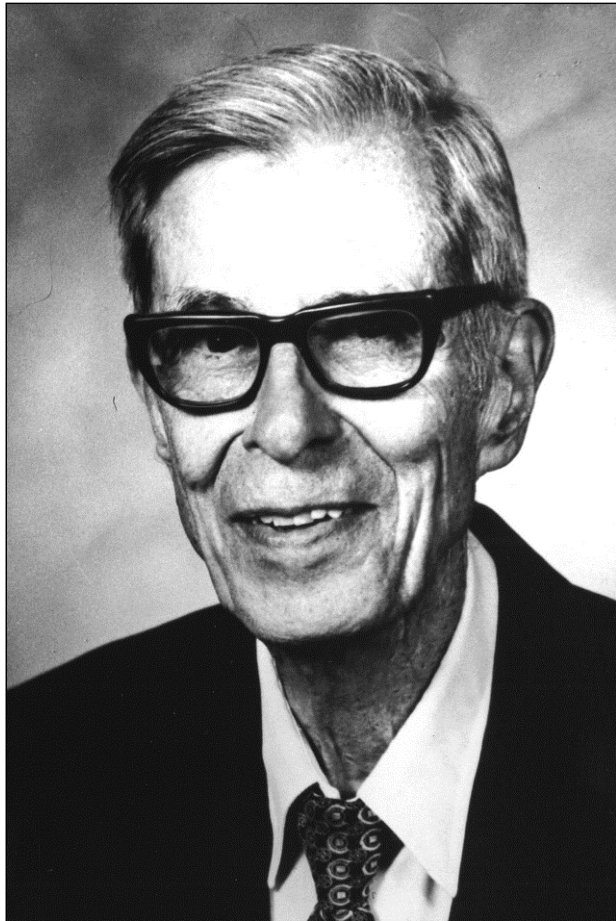
Martin E. Flentje

1897-1976

Mr. Flentje specialized in the purification and treatment of public water supplies. After working at the Matteson, Illinois and Oklahoma City filtration plants, he became chief chemist for Community Water Service Company in Harrisburg (later part of American Water Works) in 1927. Upon retirement in 1966, he entered private consulting and teaching. He served the U.S. Department of Public Health in Korea and Jamaica, and the World Health Organization in Pakistan. Mr. Flentje conducted seminars in water treatment and management, authored a book on water treatment and purification, and co-authored and revised Basic Water Works Management with Robert J. Sweitzer. A member of AWWA for 50 years; he was honored with Honorary Membership in 1967. Mr. Flentje received the Fuller and Distribution Division Awards, and as President of the Pennsylvania Water Works Operators' Association; and received its Glace Award.



Water Works Operator's Association of Pennsylvania



William H. Kain

1912-1998

Mr. Kain was director of The York Water Company from 1958 to 1969, vice president from 1970 to 1980, chairman of the board 1980 to 1993, and was a leader in developing The York Water Company into one of Pennsylvania's major shareholder-owner water companies. Under his leadership and guidance, the Company created a water district agreement that provided water service to municipalities that would not otherwise have been served; developed a precursor "acquisition, financing and sales agreement" with the York County Industrial Development Authority; and negotiated major financing at a lower rate, benefiting both the Company and its customers. He led the Company through significant growth after 1970, during which time the customer base grew by more than 35 percent and miles of water main doubled. Mr. Kain set a precedent for other utilities by sharing company lands with the public and working with York County to establish a public park at the Company's Lake Williams - Lake Redman Reservoir.



Water Works Operator's Association of Pennsylvania



David A. Long

1933-2001

Dr. Long's 31 years as an educator at Pennsylvania State University included a four-year term as the Director of Engineering for Continuing Education. He earned his BSCE and MS in Sanitary Engineering from the State University of Iowa and his Doctorate from the Pennsylvania State University. He was a registered professional engineer in Pennsylvania and Iowa, and a Diplomate of the American Academy of Environmental Engineers. Dr. Long practiced as a consulting engineer and was active in continuing education activities, with particular emphasis on water systems. He presided over the Reginald B. Adams Workshop at the WWOAP Annual Conference for many years and authored numerous technical publications. The Water Works Operators' Association, the Water Pollution Control Federation, the Water Pollution Control Association of Pennsylvania, and the National Association of Water Companies honored him for his long service. He was a life member of the AWWA



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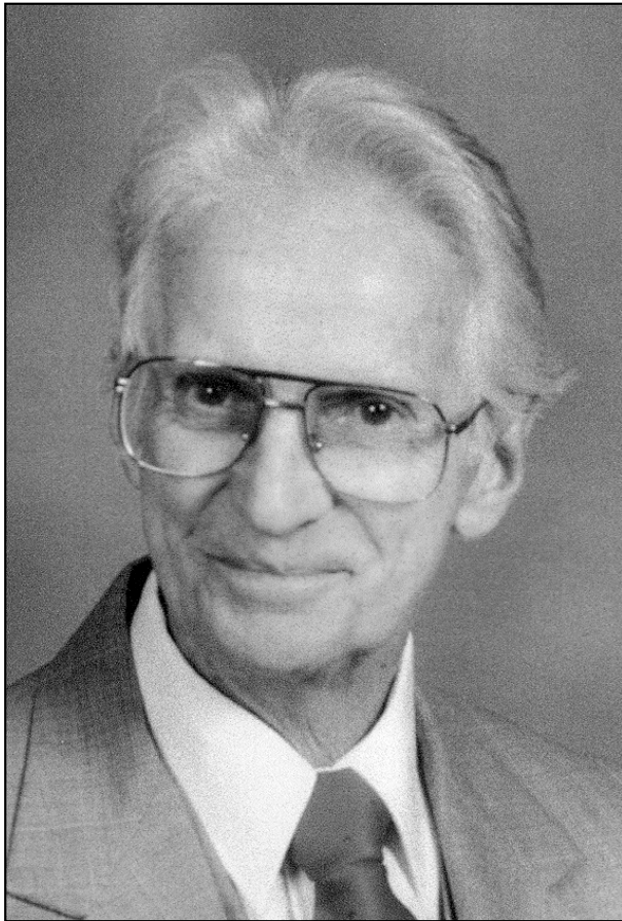
Ronald F. Spray

1926-1998

A professional engineer who devoted his entire 50-year career to the water supply industry, Mr. Spray earned his BSCE from Carnegie Institute of Technology (now CMU). Beginning as a designer with the Allegheny County Sanitary Authority, he moved to William J. Murdoch Consulting Engineers, eventually becoming Executive Vice President, then moved to Bankson Engineers, Inc. where he was President from 1987 until his death in 1998. Mr. Spray was a registered professional engineer in Pennsylvania, Ohio and West Virginia; a Professional Land Surveyor in Pennsylvania and West Virginia; and a Class A Type 1 Certified Water Treatment Plant Operator in Pennsylvania. He received the Portland Cement Association's Award of Excellence for the West View Authority's McKees Rocks Reservoir, had two projects featured on the cover of the Journal of the AWWA, and his numerous awards included WWOAP's Harry J. Krum Award. Mr. Spray was a pioneer in the use of granular activated carbon filters, which he designed for the West View WTP.



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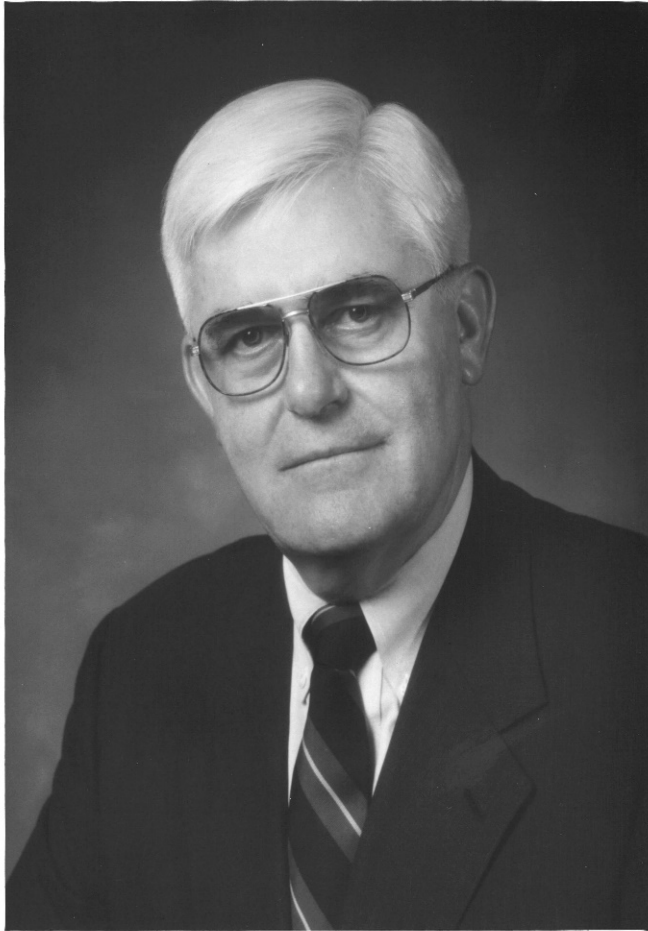
Harold F. Shea

1911-2001

Mr. Shea's career began in the laboratory of the City of Erie's water treatment plant and continued as Superintendent of the Water and Sewer departments in the City of Downingtown. He also worked for the West View Water Authority, where he applied innovative technology to meet the challenges of polluted groundwater. A visionary who lobbied for reservoir covers and water system security long before others in the industry, Mr. Shea was one of the first operators to be certified under the voluntary program. He taught water treatment classes for more than 20 years, served as liaison between operators and regulators, and was instrumental in developing PA DER's original regulatory exchange program. Mr. Shea authored numerous articles for the Journal of the AWWA and other trade publications. A Life Member of both AWWA and WWOAP, he served as WWOAP's Editor and on numerous committees. The first recipient of the AWWA Operator's Meritorious Award, Mr. Shea also received the Ivan M. Glace and Harry J. Krum Awards.



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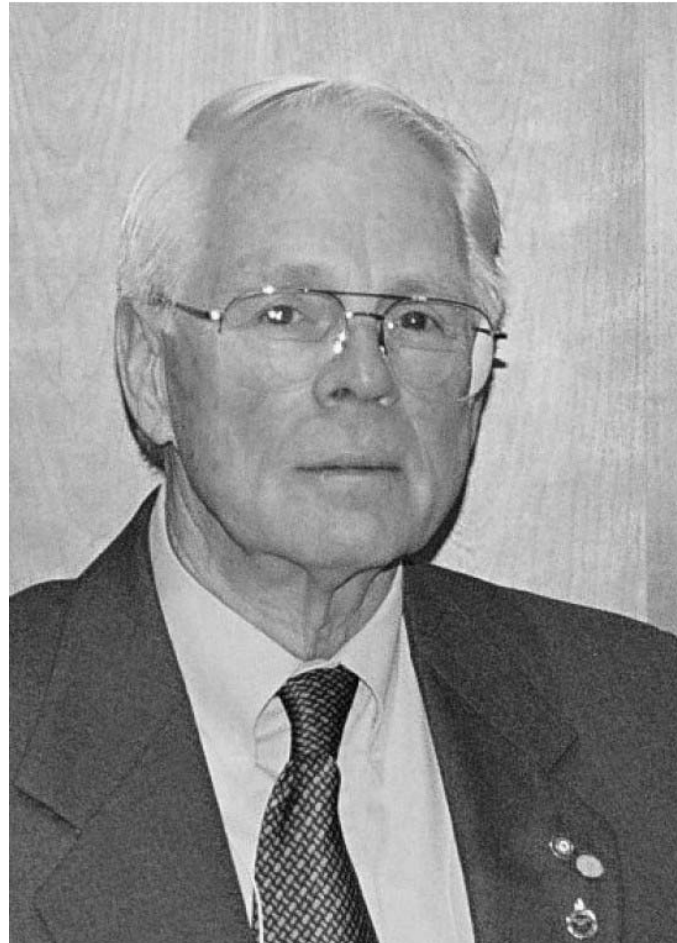
Raymond M. Best

1938-1999

Raymond M. Best, PE, PLS, was President and CEO of Buchart Horn, Inc. and other subsidiary firms of PACE Resources, Inc. in York from 1994 until his unexpected death in 1999. Mr. Best began his career in 1957 as a draftsman; in 1962, he joined Buchart Horn as a Project Designer in the firm's Sanitary Division, and over the next three decades, he ascended into progressively more responsible roles, culminating in his appointment as President in 1996. Mr. Best led BH in delivering expert engineering service to large and small water authorities throughout the mid-Atlantic region. During his 37-year tenure with Buchart Horn, Mr. Best oversaw and/or was directly involved with hundreds of projects and initiatives. Organizations of which Mr. Best was an active member include Water Works Operators' Association of Pennsylvania (President, 1980); the Construction Sciences Research Foundation, Inc. (Board of Directors); the Technology Council of Central Pennsylvania; the Pennsylvania Society of Professional Engineers; PA State Registration Board for Professional Engineers (President, 1984-1990); and the American Society of Civil Engineers. Mr. Best was the 51st President of WWOAP.



Water Works Operator's Association of Pennsylvania



Herb Spencer

1941 -

Herb Spencer attended multiple institutions of higher learning including Drexel University and served in the U.S. Army Security Agency. Mr. Spencer started his professional water industry career in 1964 and, at the time of his 2021 WWOAP HOF induction, served as the Director of Technical Services and President of the Rural Water Division with Shannon Chemical Corporation. Herb was a past president of WWOAP and a recipient of the organization's Harry J. Krum, Ivan M. Glace and the Fred G. Eckardt Awards. In addition, the PA-AWWA honored him with the Section's Special Recognition Award and the George Warren Fuller Award. Herb was the first recipient of the SE PA-AWWA District / WWOAP Eastern Section's Herbert Spencer III Special Recognition Award, which was named in his honor. Mr. Spencer, a consummate water professional, will forever be known for his countless contributions to the industry including his leadership in the field of corrosion control.



Water Works Operator's Association of Pennsylvania

Serena DiMagno

1951 -

Serena DiMagno attended Chatham University where she received her B.S. in Biology/Chemistry. Ms. DiMagno started her career in the water industry as the Director of Water Quality for the City of Harrisburg and continued her career with Dauphin Consolidated Water Supply in Harrisburg, where she was the Superintendent of Production. Serena then entered the private sector and has worked at multiple engineering firms including DiMagno Associates (a firm started and owned by herself), Rettew and Spotts, Stevens and McCoy. Serena is a past president of WWOAP and has extensive work and leadership in PA-AWWA, the PA Water Utility Council and the PA Technical Assistance Center (TAC) Board. Over her career, she has received WWOAP's Harry J. Krum, Ivan M. Glace, Fred G. Eckardt and Elton D. Walker awards as well as AWWA's Special Recognition, George Warren Fuller and Samuel S. Baxter awards. Serena will forever be recognized for her dedication to, and for being the voice of, the water industry in Pennsylvania.





Water Works Operator's Association of Pennsylvania

Stanley J. States, PhD

1948 - 2022

Stanley States earned a bachelors of science in Biology, master of science in Forensic Chemistry and a PhD in Environmental Biology all from the University of Pittsburgh. Mr. States began his career in the water industry as a sanitarian with the Allegheny County Health Department. He then transitioned to the Pittsburgh Water and Sewer Authority where he held many positions including the director of water quality and production as well as the director of research. He worked at PWSA for 36 years until his retirement. In addition to his roles at PWSA, Dr. States served as an instructor for Texas A&M University's Engineering Extension Service where he taught courses focused on counter-terrorism measures in the water/wastewater industry. Stanley also served his country for 25 years in the U.S. Army Reserves as well as being active in the Shriners Band. Mr. States will forever be remembered for his work in protecting one of Pennsylvania's most valuable resources.

