

## IN MEMORIAM

### JOSEPH F. MALINA JR.

Professor Emeritus Joseph F. Malina Jr., born August 24, 1935, in Brooklyn, New York, passed away peacefully on June 14, 2016, surrounded by his wife, his children and their spouses, and his grandchildren. An outstanding teacher, gifted administrator, and worldwide-recognized Environmental Engineer, he served The University of Texas at Austin for over fifty years. Joe was the second of nine children born to Joseph F. Malina Sr. and Mary Wesolowski Malina, both first-generation Americans born to Polish and Czechoslovakian immigrants. Joe's fluency in Polish and Slavic served him well in numerous international assignments.

Joe began his life-long dedication to his work and education early on, receiving a Bachelor's degree in Civil Engineering from Manhattan College followed by M.S. and Ph.D. degrees in Civil Engineering (Sanitary Engineering) at the University of Wisconsin at Madison. He began his fifty-three-year career at The University of Texas Cockrell School of Engineering when he moved to Austin in 1961. Although he officially retired in the fall of 2012, he continued to mentor and supervise students until the end of 2014. After moving to Austin, his life changed for the better when he met Ida, whom he married on January 9, 1965. They were blessed with fifty-one years of marriage and a life centered on children, family, and his Roman Catholic Faith.

Joe leaves a lasting legacy as an educational and industry leader and as a respected professional engineer in the field of wastewater treatment. During his more than half a century at UT Austin as an environmental and water resources engineering professor, he supervised 192 graduate students, including twenty-six Ph.D. students. Many of his graduate students have been

instrumental in designing and operating wastewater treatment plants throughout the world, and so have helped the environment and society.

Joe joined the Department of Civil, Architectural and Environmental Engineering faculty as an Assistant Professor in 1961, attained the rank of Professor in 1970, and earned the endowed C.W. Cook Professorship in Environmental Engineering in 1980. An enthusiastic teacher and mentor, he drew on his extensive engineering experience, research, and consulting assignments to help thousands of students understand the real-world importance and application of civil and environmental engineering. He taught multiple generations of students from the same families, including one trifecta of grandfather, father, and grandson. For students, Joe Malina was one of the most interactive and highly respected faculty in his department. A fellow faculty member and member of the National Academy of Engineering said of him, “Joe Malina was probably one of the most student-dedicated professors and one who has contributed to what is now the CAEE [Civil, Architectural and Environmental Engineering] Department, more than anyone I know.”

Joe Malina’s strong relationship with students is a common theme of his colleagues’ comments about him. Asked what his favorite part of his long career had been, Joe answered that hands-down it had been working with students: “I guess my philosophy is, if you’re going to take on a job, either enjoy doing it or don’t do it!” Thanks to Joe’s dedication, expertise, and enthusiasm, thousands of engineers embody his wise counsel and continue his strong legacy.

As the C.W. Cook Professor in Environmental Engineering and a key part of the Environmental and Water Resources Engineering program, Joe researched a broad spectrum, from studies that document the treatability of municipal and industrial wastewater and sludge, to the characterization of the quality of highway runoff, and the development of best management practices for the treatment and control of highway runoff. A Licensed Professional Engineer in

Texas since 1970, a Board-Certified Environmental Engineer of the American Academy of Environmental Engineers since 1972, and a Diplomat of the American Academy of Water Resources Engineers since 2007, Joe was an excellent engineering role model who made significant and long-lasting contributions to the field of environmental engineering.

Joe Malina was a leader in a rapidly changing field. “When I started in this field, it was called ‘sanitary engineering,’ and people sort of snubbed their noses at it,” Joe remembered, “They thought it was all taken care of by people like sewer worker Ed Norton on ‘The Honeymooners.’ They assumed enough order was out there to manage wastewater and solid waste and didn’t give it a second thought.” Soon, however, awareness spread that environmental engineering covered a much broader spectrum of activities, including energy recovery and cost containment. “People began to realize that the organic portion of waste could be converted to methane gas, and began to look more closely at their options,” he said. Environmental Engineers regularly referred to the short courses he organized on advanced water pollution control that shaped treatment plant design and operations around the world. His professional contributions have been recognized by numerous awards, including the Lifetime Achievement Award from the Water Environment Association of Texas, the Arthur M. Wellington Prize from the American Society of Civil Engineers, the Edward J. Cleary Award from the American Academy of Environmental Engineers, the Gordon Maskew Fair Award from the American Academy of Environmental Engineers, the Engineer of the Year Award from the Travis Chapter of the Texas Society of Professional Engineers, and the Gabriel Narutowicz Medal from the Ministry of the Environment of Poland.

He was a life member of the American Society of Civil Engineers (ASCE), American Water Works Association, Water Environment Association, American Academy of Environmental Engineers, and National Society of Professional Engineers, as well as a founding member of the

ASCE Environmental and Water Resources Institute. Joe's deep involvement with the Accreditation Board for Engineering and Technology (ABET) was extremely important for the University. He served as a program evaluator for over thirty years, chaired twelve teams on accreditation evaluation visits, and served on the ABET Board of Directors. Joe long served as the UT CAEE Department's link to accreditation. He gave completely of his time and effort, carrying out accreditation visits of Civil Engineering Departments all over the USA. He returned with full knowledge of what was important and what was new, knowledge that gave UT Austin a leg up in preparing for numerous accreditation visits.

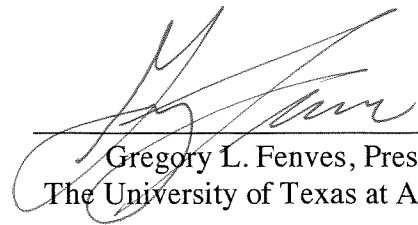
Undoubtedly, Joe's greatest contribution to The University of Texas at Austin was his service as CAEE Department Chair from 1976 to 1988. This twelve-year period was a time of great expansion of the departmental faculty and of departmental research programs. The reputation of the department advanced greatly, both nationally and internationally. Joe invested much time in recruiting extremely promising faculty, and he tirelessly worked to improve existing facilities and developing new ones. "I made it a point to attract national visibility for the program," said Joe, attributing his tenacity to his Brooklyn roots. He credited his father, an ironworker who helped construct the Empire State Building, for his strong work ethic. His Brooklyn-shaped personality was highly effective in his battling the other Engineering Department Chairs to ensure that CAEE received its fair share, and maybe a little more, of the college's resources. His extremely close professional relationship with then Dean Earnest Gloyna certainly helped, as it allowed him to know the limits to which he could push his arguments.

Joe also served as a consultant to more than seventy industries, to local, municipal, state, and federal governmental agencies, and to international organizations in matters dealing with aerobic and anaerobic municipal and industrial wastewater treatment. He authored more than 270

technical and professional refereed papers, books, manuals, technical papers, published discussions, and technical reports. These materials dealt with municipal and industrial water and wastewater treatment; sludge handling; treatment and disposal; the fate of bacteria and viruses in water and wastewater treatment systems; sludge and solid wastes; solid waste collection, disposal, recycling and management; hazardous water disposal and bioremediation; characterization of highway runoff; and runoff control and treatment.

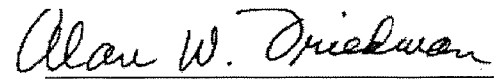
Joe Malina lived a very full and accomplished life of almost eighty-one years devoted to his family, The University of Texas at Austin, and his Catholic faith as an active member of the St. Austin Catholic Church community for over fifty years. Everyone who knew Joe realized how important his family, his friends, and his students were to him. Shortly before his death, responding to extremely strong support from former undergraduate and graduate students, he was elected an Honorary Member of the UT CAEE Department's Academy of Distinguished Alumni. Although he was not a UT graduate, there was a very strong feeling that he had been a key supporter of excellence in the department.

Joe was preceded in death by his younger brother, Tom. He is survived by wife Ida, daughter Kristyn and her husband Mark Rankin, son Joe and his wife Marianne Malina, daughter Mary and her husband Jaiden Eaton, daughter Alexandra and her husband William Alfaro, and daughter Frances and her husband Abraham Tucker. Joe also leaves ten adoring grandchildren: Madilyn and Amanda Biscoe; Isabella Rankin; Milo Malina; Kamdyn, Brinkly and Taitym Eaton; Mia Lucette Alfaro; and Emma and Noah Tucker. Joe's younger brother Robert is a Professor Emeritus in the College of Education at UT Austin.



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Gregory L. Fenves, President  
The University of Texas at Austin



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Alan W. Friedman, Secretary  
The General Faculty

This memorial resolution was prepared by a special committee consisting of Professors Kenneth Stokoe (Chair), Jack Breen, Davis Ford, and Des Lawler.