



ALL — IN THE — FAMILY

*Civil Engineering
Legacy Stories*

SECOND EDITION

ASCE FOUNDATION

Featured Families

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New additions to the second edition are indicated in blue.

Introduction

Dear Friends of the Foundation,

For the past two years, the ASCE Foundation has been collecting stories of families comprised of generations of civil engineers. These families have made strong contributions to the field, with world-renowned bridges, buildings, roads, and more, under their belts. Because of this, we decided to issue a call for stories, and began to create a collection of stories for posterity.

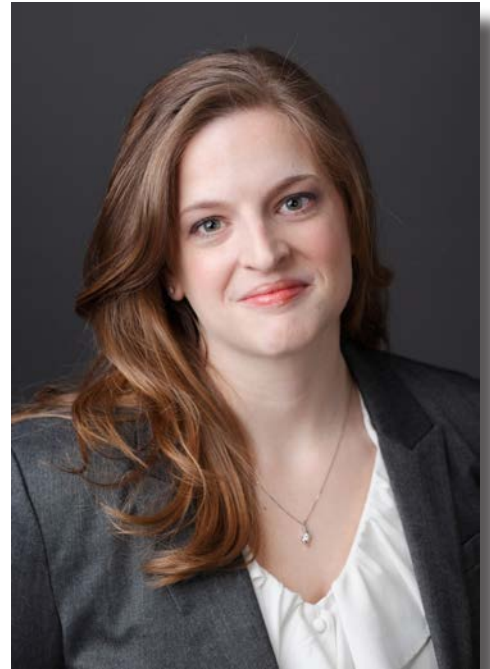
We are proud to release this second edition of our Civil Engineering Legacy eBook, and hope you enjoy learning about these families as much as we did.

Thank you all for your contributions to the profession of civil engineering. Enjoy the stories!



Natalie Zundel, CFRE, Aff.M.ASCE

PS: If you have a story to share for a future edition, please contact us at 703-295-6342 or ascefoundation@asce.org.



DiLORETO FAMILY

Service to the civil engineering profession and ASCE runs through the veins of the DiLoreto family.



Eugene "Gene" DiLoreto, P.E., P.L.S.

To be a member of the DiLoreto family means having a love for both building and design. The family consists of five civil engineers and two architects, but it all began with Eugene "Gene" DiLoreto, P.E., P.L.S., ASCE's 2013 President, Gregory E. DiLoreto, P.E., P.L.S., D.WRE, F.ASCE's father. After serving in the Navy during World War II, Gene returned home and attended Willamette University on the G.I. Bill. Following his studies, Gene began working for Multnomah County, Oregon, as an inspector and surveyor, and was later promoted to civil engineer. Greg fondly remembers at age six visiting his father's office, and being absolutely in awe of how large it was, "I have four brothers, and three of us shared a room... but my father had his own office, and drafting pencils, and a drafting table, and desk, and as a six year old kid, that looked great. So, it was then that I decided I wanted to be a civil engineer."

Greg followed his dream, and graduated in December 1975 with a B.S. in Civil Engineering from Oregon State University. He initially focused on transportation engineering due to his father's influence. But with the Clean Water Act of 1972 creating so many jobs, he quickly took an interest in environmental engineering. For 31 of his 37 years, Greg served in management roles for public works departments, and ultimately used his leadership skills to serve as the 2013 President of ASCE.

Not far from civil engineering, Greg's brothers, Chris and Mark DiLoreto, found a passion for architecture, and both are still in the field today. Chris is the President of DiLoreto Architecture, a company he founded thirty years ago, located in Portland, Oregon. Mark is the Director of Architecture with Planning Solutions Inc., also located in Portland. Both are graduates of the University of Oregon.

Like his brother Greg, Vince A. DiLoreto, P.E., attended Oregon State University, and graduated with a B.S. in Civil Engineering in 1979. Vince is currently providing asset management consulting services. Although he is no longer working in the profession, he has a son who is a civil engineer, as well as a second son who is a Construction Manager. Following in the footsteps of his elder brothers, Dale DiLoreto, graduated from Oregon State University in 1983 with a B.S. in Civil Engineering. Today, Dale is the President and Principle partner of WDY Inc., a mid-sized structural engineering company in Portland, Oregon.



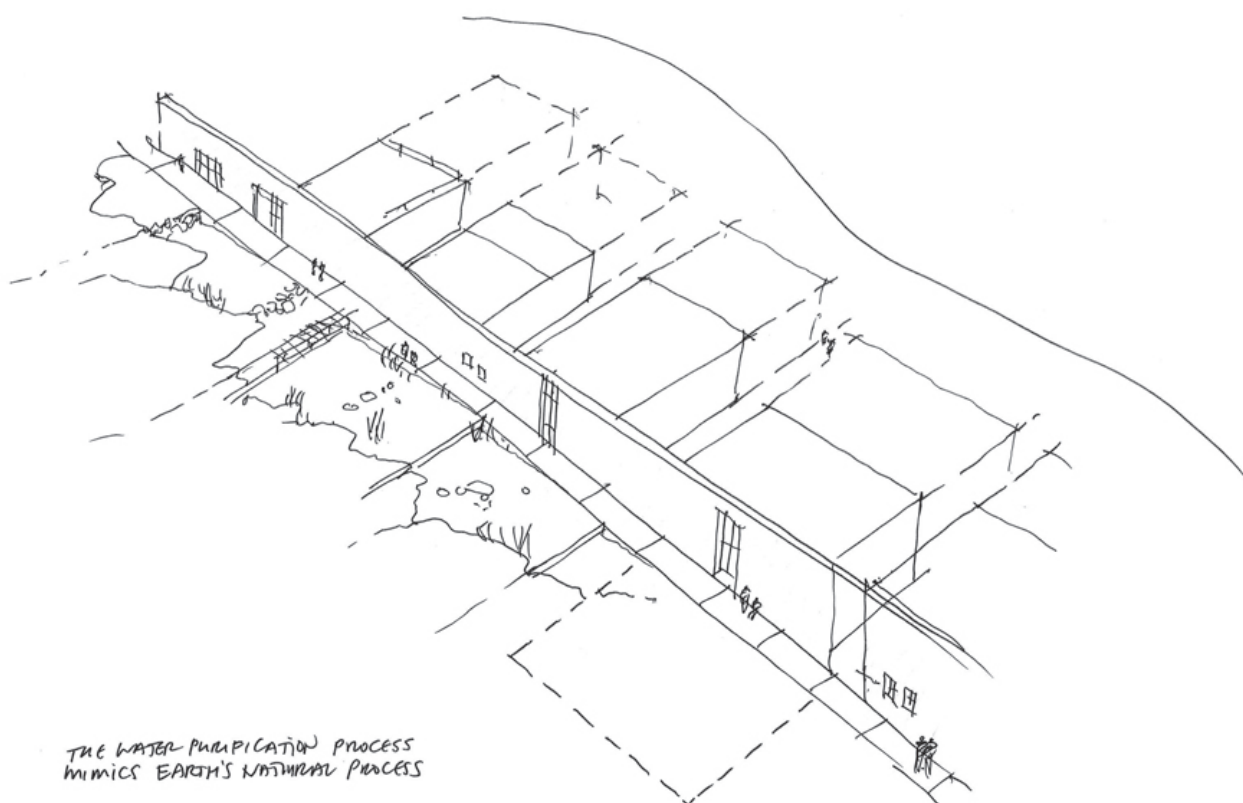
The DiLoreto brothers

Reflecting on his career, Greg noted proudly that, "In every agency I worked for, I was able to increase funding for infrastructure." And, infrastructure is what Greg is most passionate about. He continued, "We need future generations to design the next phase of our infrastructure, so they need to get more active politically, and take back the leadership we had in the 50's and 60's." Although Greg, his father, brothers, and nephew found a love for civil engineering, he never pressured his children to join the profession. Instead, his daughter, Natalie a graduate of Oregon State University with a degree in Merchandising Management works for Nike at their world headquarters in Beaverton, Oregon as a Category Information Specialist in men's athletic training wear. While, Greg's son, Nick, studied Car Design at the Art Center College of Design in Pasadena, California. After a year with Volvo, followed by work with a Santa Barbara product design firm, Nick form his own product design firm, Knot Design, three years ago, located in Ventura, California.



Greg E. DiLoreto, P.E., P.L.S., D.WRE, F.ASCE

Finally, when asked about his decision to run for the President of ASCE, Greg commented, "I wanted to represent civil engineering on the municipal level, and being the President of ASCE is great. You're the number one civil engineer for a year!" Greg laughed. Although Greg is enjoying retirement, he is still active in ASCE, just concluding his presidential term, as well as service on the ASCE Foundation Board of Directors and Council of Trustees.



ROBERTSON/SEE FAMILY

Structural engineering spouses work together to improve our communities, and tackle global issues.

Spouses Leslie E. “Les” Robertson, P.E., S.E., NAE, Dist.M.ASCE, and SawTeen See, P.E., Dist.M.ASCE, are both world-renowned structural engineers, but the paths that led them to where they are today were very different.



Leslie E. “Les” Robertson, P.E., S.E., NAE,
Dist.M.ASCE

After being discharged from the US Navy, Les attended the University of California at Berkeley on the G.I. Bill. Finding it hard to stay focused on his studies, Les took a break, and found a full-time job at a small town in Nevada, teaching at a one-room, one-teacher school, and a part-time job as an office person on a construction job. Later, Les decided to return to Berkeley to finish out his degree. He proudly received a B.S. in Mathematics but, due to his anti-war beliefs, had trouble finding work after graduating. Fortunately, Les gained employment as a mathematician in the Electrical Engineering Department of a construction company. With his excellent math skills, Les was able to solve problems dealing with the distribution of electrical power in large grids. Further, he set out to determine the consequences of a wire breakage on the towers holding up those lines, and was eventually switched to the Structural Department. He notes, “After studying very hard, I became a civil engineer through the back door... and it was all downhill from there.” Leslie eventually went on to work

on large-scale projects, like the IBM Building in Pittsburgh, Pennsylvania, the World Trade Center, in New York City, and the US Steel Building in Pittsburgh, Pennsylvania. In 1983, Les melded Skilling, Helle, Christiansen, Robertson into Robertson Fowler Assoc. which became Leslie E. Robertson Associates [LERA] in 1987. In 2013, he started his own firm, Leslie Earl Robertson, Structural Engineer.

SawTeen, on the other hand, grew up in Penang, Malaysia, with a dream to design beautiful buildings. She received a full scholarship to Cornell, where she began studying Architecture. Not finding it to be quite the right fit, SawTeen switched to civil engineering, and graduated in three years, earning her M.S. in Structural Engineering just a year later. With her excellent work ethic, and strong technical and aesthetic skills, SawTeen began her career at LERA. She commented, “What appealed to me about the firm was that the building designs they were doing were not run-of-the-mill factories and shopping malls but architectural buildings, those of more aesthetic interest and with very well-known architects.” SawTeen, years later, is still at LERA, now in the role of Managing Partner, living out her dream. She was featured in ASCE’s *Changing Our World: True Stories of Women Engineers*, a book telling the many accomplishments of women engineers.



SawTeen See, P.E., Dist.M.ASCE

However, SawTeen and Les are not the only ones in their families who are in the math and science sectors. Their daughter works in the mechanical engineering realm as a product designer at FitBit, San Francisco, while Les' son is a geotechnical engineer, and the Vice President of Shannon and Wilson in Seattle, Washington.

Together, Les and SawTeen have tackled very diverse and challenging projects around the world, in locations as far as Japan and China. A snapshot of these projects includes the J.W. Marriott Tower in Almaty, Kazakhstan; the expansion of the Baltimore Convention Center; the Rock 'n Roll Hall of Fame, Cleveland; the NASCAR Hall of Fame in Charlotte, North Carolina; the Bank of China Tower, Hong Kong; the San Jose Convention Center; the 492 meter Shanghai World Financial Center; Lotte's 555 meter World Tower, Seoul; the Miho Museum, Bridge and Chapel, Japan; KL 118 Tower, Kuala Lumpur; the National Constitution Center, Philadelphia; and the National Library of Latvia. When asked what it's like to work together, they both smiled, "It's wonderful!" Looking toward the future of civil engineering, SawTeen commented that she would like to see more recognition for the great things civil engineers accomplish. Les agreed, but added that he would like civil engineers to tackle the harder issues of world peace, women's and civil rights, and rescuing of the poor.



Shanghai World Financial Center



SawTeen signing the supporting beam at the Baltimore Convention Center

BURKE FAMILY

Fourteen engineers make up the Burke family, but many more may follow.

Christopher B. “Chris” Burke, Ph.D., P.E., D.WRE, Dist.M.ASCE’s family consists of fourteen engineers, nine of which practice civil engineering.

Growing up in the Burke household in Olympia Fields, Illinois, Chris initially became introduced to civil engineering through his father, Edmund Burke. Edmund, a graduate of Marquette University, began his own engineering firm, and even served as the Mayor of their town. He encouraged his children to join him in the profession, and sent all six of them to Purdue University for their studies.

Chris through his father’s influence, and love of construction sites and survey crews, earned his B.S., M.S., and Ph.D. from Purdue. His brother, Martin Burke, also shared the same interest, but took a different route, and earned his B.S. in Land Surveying.



Christopher B. “Chris” Burke,
Ph.D., P.E., D.WRE, Dist.M.ASCE

Chris began his career at MWH, but after just three years, decided to open his own firm in 1986. Starting with just one employee, himself, The Burke Group now consists of more than 400 employees in multiple companies throughout Illinois and Indiana. However, it was during Chris’ time at MWH that his interest in ASCE first began. MWH encouraged their staff to participate in the Illinois Section, and he even met a friend of his father’s, whom he had never had the pleasure of knowing prior to his ASCE involvement. Chris eventually served as President of the Illinois Section, and continues to encourage his staff to join ASCE, especially in leadership roles. Many of them have held positions on the Section’s Board of Direction, or as Presidential Officers.

Although Chris’ siblings pursued degrees in other fields, the civil engineering legacy lives on through his own children, and extended family members. Chris’ daughter Megan B. Elberts, P.E., M.ASCE followed in her father’s footsteps, and attended Purdue for both her B.S. and M.S. in Civil Engineering. While in graduate school, Megan was a Teaching Assistant for the Hydraulics/Hydrology Department, and has since joined Christopher B. Burke Engineering, Ltd., where she works as a Water Resources Engineer. Chris’ son, Edmund M. Burke, II, A.M.ASCE studied civil engineering at Virginia Military Institute, and graduated with his B.S. in 2008. Keeping with the family tradition, Edmund went on to study at Purdue, receiving his M.S. in 2010. He now works as a Drainage Engineer at Christopher B. Burke Engineering, Ltd.

Other engineers in the family include Chris' father-in-law, Roland Schafer; Chris' wife's great uncle, Alfred Kettler; Chris' cousin, Martin Burke; Chris' other cousin, Thomas T. Burke, Jr., Ph.D., D.WRE, P.E., F.EWRI, M.ASCE, and his wife, Penelope L. Burke, A.M.ASCE; Chris' brother-in-law, a mechanical engineer, Brian Kinney; Chris' other brother-in-law, also a mechanical engineer, Andrew Donovan; Chris' third brother-in-law, David Shuck, Ph.D., P.E., whom Chris earned all of his degrees at Purdue with; Chris' cousin, another mechanical engineer, John Caruso, P.E.; and finally, Chris' second cousin, Timothy LaFleur, a Naval Science engineer, who served as the Commander of Surface Force in the Pacific Fleet.

Chris' promotion of the profession does not just end with his family. Chris has chaired the Chicagoland Engineers Week for the past decade, allowing him to meet many famous engineers along the way. This past year, Chicagoland presented Bill Nye with the Washington Award, which recognizes engineers in all fields who have made major contributions to the profession. Chris also continues to work at the University of Illinois College (UIC), teaching Water Resources and Senior Design. Each year, he takes students from the UIC ASCE Student Chapter, to the Illinois Section for a dinner, as a networking opportunity. In fact, a third of the Illinois Section Board of Direction are former UIC Students!

Looking down the road, Chris hopes to see his grandchildren join the profession, but knows that they will ultimately make their own decision. When Chris isn't at the office, he enjoys spending time with his wife, Susan, a kindergarten teacher, and his other two children, Kevin, who works in Construction Management, and his daughter, Christina, who is in her first year of medical school at Midwestern University.



Front Row l-r: Chris, grandson Teddy (Megan's son), wife Susan, back row l-r: daughter Christina, son Kevin, Kevin's wife Lauren, Kevin's Daughter Isla, daughter-Megan, Megan's husband Joseph, son-Edmund

CALDWELL/COOK FAMILY

Kathy J. Caldwell, P.E., F.SEI, F.ASCE, Pres.11.ASCE followed her mother, Florence, in the civil engineering profession, and shares the passion for teaching and travel with her husband and fellow civil engineer, Ron.

Kathy J. Caldwell, P.E., F.SEI, F. ASCE, Pres.11.ASCE had the distinct honor of serving as the President of ASCE. However, she is not the only civil engineer in her family, and in fact, it was her mother who inspired her to join the profession.

Kathy's mother, Florence Caldwell, worked as a drafter at Dow Chemical Company in Cleveland, Ohio, and studied civil engineering, all while raising four children. She began her degree at a community college, then went to Cleveland State, but ultimately graduated with her B.S. in Civil Engineering from the University of Houston in 1983.



Kathy J. Caldwell and mother, Florence Caldwell

Florence always joked that with three younger brothers, Kathy got plenty of “home economics” practice at home. So, while enrolled in a drafting program in high school Kathy's interest in civil engineering grew. That, in combination with her good visual and spatial skills, led her to graduate in 1985 from the University of Tennessee, Knoxville, with her B.S. in Civil Engineering. And, for thirty years, Kathy has called ASCE “family.” She stated, “I can't imagine not being an ASCE member. It has given me a network of friends, as well as technical support. The value of ASCE is well above what I pay in dues.” Kathy, along with her husband (also a civil engineer), Ronald A. “Ron” Cook, Ph.D., P.E., F.SEI, M.ASCE, own Caldwell Cook and Associates in Gainesville, Florida.



Ron and Kathy at Falling Water

Ron began his career at the Tennessee Valley Authority in Knoxville, Tennessee, where he and Kathy met, and married. He became a full-time structures professor at the University of Florida (UF) in 1989 after obtaining his Ph.D. from the University of Texas. Recently retired, now, when Ron is not crafting an excellent meal, he is serving on multiple ASCE and ACI technical and code committees. Kathy also shared a love of the classroom with Ron after her retirement from consulting in 2008, and taught at UF as well. But, this wasn't Kathy's first “gig” at UF. She served as the Practitioner Advisor, and then Faculty Advisor for UF's ASCE Student Chapter for almost twenty years! Kathy and Ron are world travelers, but most recently began exploring America's back roads in their newly-acquired camper van.



Florence, Kathy, and Ron

Kathy named her greatest accomplishment as serving as the President of the Society, but she also knows the importance of giving to the Foundation. When asked why she is a member of the Foundation's James Laurie Visionary Circle, she commented, "It's not about me or my name on a list. It's about inspiring others to give as well." And, leading by example is something that we know Kathy does well. Serving on the ASCE Foundation's Council of Trustees, Kathy enjoys talking about the student programs that the Foundation supports; one of her favorite's being the ExCEED Teaching Workshop.

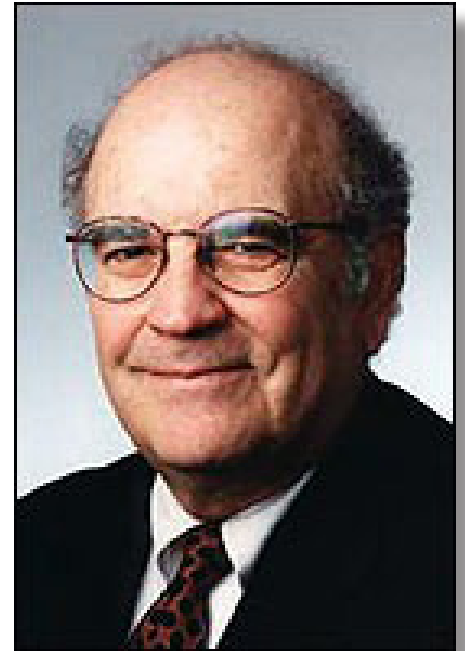
Looking down the road, Kathy hopes to see ASCE and the ASCE Foundation grow hand-in-hand, and become a global organization, known for supporting all the good things civil engineers accomplish world-wide. We are excited to watch as Kathy and Ron continue to influence the next generation of civil engineers through their teaching and service activities, and see them pass on their love of the profession.

TAMARO FAMILY

Father and son, George J. Tamaro, Jr., P.E., D.GE, NAE, Hon.M.ASCE and Mark J. Tamaro, P.E., M.ASCE, share the bond of civil engineering.

George J. Tamaro, Jr., P.E., D.GE, NAE, Hon.M.ASCE grew up in Cliffside Park, New Jersey in a first generation immigrant family, with aspirations of becoming an architect. However, at Manhattan College he found civil engineering to be the closest thing to architecture, and soon became involved with the ASCE Student Chapter. George commented, "Becoming a member was not only encouraged, but expected of us as students." After graduating with his B.S. in Civil Engineering in 1959, George continued his studies at Lehigh University. He received his M.S. in Civil Engineering in 1961, and immediately began working at the Port Authority of New York and New Jersey.

While at the Port Authority, George was awarded a Fellowship to travel to Italy to study reinforced concrete, under the guidance of Pier Luigi Nervi. Throughout his career, he has also had the opportunity of working in Germany on the MesseTurm and the Friedrichstadt Passagen, the World Financial Center and the JFK Light Rail Project in New York, the umbrella roofs in the Newark Airport, the construction of the original World Trade Center basement walls, the recovery of the World Trade Center basement, and the construction of the Freedom Tower. Although George is extremely well-known for his knowledge of slurry walls and deep foundations, many people do not know that he also has a M.S. in Architecture from Columbia University, fulfilling his childhood dream!



George J. Tamaro, Jr., P.E., D.GE, NAE,
Hon.M.ASCE



George at the World Trade Center basement

However, George is not the only Tamaro who is active in the profession. His son, Mark J. Tamaro, P.E., M.ASCE, showed an interest in civil engineering early in life. He commented, “This might sound cliché, but I always had an aspiration to build things, and never lost that... I’ve always wondered why things work the way they do.” Following in his father’s footsteps, he graduated from Lehigh University with both his B.S. and M.S. in Civil Engineering, in 1990 and 1992, respectively. He now works at Thornton-Tomasetti as a Senior Principal, and has even been featured in Civil Engineering Magazine numerous times, including four cover stories. George joked about his son’s accomplishments, “I did not get even one cover story in my five decades of practice!” Mark’s projects include the scaffolding of the Washington Monument, the Washington Convention Center, Washington Nationals Ballpark, and the Marriott Marquis Hotel in Washington, DC, to name a few.



George and son, Mark

While George never pushed his children to study civil engineering, he is happy that Mark has built such a successful career within his beloved profession. Sharing similar interests, George’s daughter is an architect, so, it seems, the Tamaro family will be building for our communities for generations to come.

When looking to the future of the profession, George commented, “We must always build better and bigger within economic and social constraints—and at all times—benefit the people.”

HAJJ FAMILY

The Hajj family's legacy spans across the world, with five family members in the profession.

Growing up, Muhammad R. Hajj, Ph.D., M.ASCE always knew that he wanted to become a civil engineer. He enjoyed math and physics, and found civil engineering to be a rich and broad discipline. Following his dream, Muhammad graduated in 1983 from the American University of Beirut with a B.S. in Civil Engineering. Upon receiving his degree, he joined the University of Texas at Austin as a graduate student. There, he met his wife, Victoria L. Mencio, who was also a civil engineering student. While Muhammad's specialty has mainly been in fluid mechanics, Victoria found her interests in hydrology. Victoria practiced in both Texas and Virginia, but has since left the profession. Muhammad is currently a Professor of Engineering Science and Mechanics and the Associate Dean of the Graduate School at Virginia Tech. He is an elected member of the Board of Governors of ASCE's Engineering Mechanics Institute (EMI), and, over the years, has served as EMI's Programs Committee Chair, an Associate Editor for the Journal of Engineering Mechanics, and Chair of the Turbulence and Education Committees.



Muhammad R. Hajj, Ph.D., M.ASCE

Following in their Muhammad's footsteps, two of Muhammad's brothers earned civil engineering degrees. Ahmed Hajj earned B.S., M.S., and Ph.D. degrees in Civil Engineering in 1985, 1987 and 1991, respectively. His career led him down the geotechnical path. He worked in England for a time, but now owns his own company in Lebanon. His other brother, Adnan, earned his B.S. and M.S. degrees in 1991 and 1993. He began his career in California in the fields of construction management and transportation before returning back to Lebanon where he currently works as a consultant.

The last Hajj (for now!) to become interested in this time-honored profession is Muhammad and Victoria's son, Ramez Hajj. Ramez earned his B.S. degree in Civil Engineering from Virginia Tech in May of 2014. As a student at Virginia Tech, he served as the Vice President of Virginia Tech's ASCE Student Chapter. Although Muhammad has never had the pleasure of teaching any of Ramez's classes at Virginia Tech, he is quite proud that his son has chosen to be a civil engineer. Ramez is currently continuing his graduate studies in civil engineering at the University of Texas at Austin.

Looking back on his career, Muhammad's greatest accomplishment has been seeing where his students are now. When asked about the future of the profession, Muhammad answered, "We need to continuously use advances made in materials, modeling, system design, information technology and other disciplines to build and maintain more reliable, sustainable and resilient infrastructure."

MORRIS FAMILY

"I really admired my grandfather. He gave to his family, his job, his profession, and his community," said John T. Morris, P.E., BCEE, Hon.D.WRE, F.ASCE, a third generation civil engineer.

It all started one hundred thirty-three years ago with John T. Morris, P.E. BCEE, Hon.D.WRE, F.ASCE's great-grandfather, B. Samuel Morris. In 1883, Samuel moved from Philadelphia, all the way out west to California. Although developing real estate was his primary job, Samuel also served as a member of the Board of Directors for the North Pasadena Water Company—a position similar to that which both John, and John's father, Brooks, would later find themselves in. Although not a formally educated civil engineer, Samuel's interest in water resources in California began a tradition of protecting this valuable resource in the Morris family.

The first "official" civil engineer of the family was John's grandfather, Samuel B. "Sam" Morris, P.E., Hon.M.ASCE. In 1911, Sam graduated with his A.B. in Civil Engineering from Stanford University, and took a job with the City of Pasadena. He worked as the General Manager of the Pasadena Water Department for many years, but made a switch to serve as the Dean of the School of Engineering at Stanford. For eight years he held this role, before beginning as the General Manager of Los Angeles Water and Power. Samuel also had the distinct honor of working with President Harry S. Truman on the Water Resources Policy Commission, and later was appointed by President Dwight D. Eisenhower to serve on the Atoms



Samuel B. "Sam" Morris, P.E., Hon.M.ASCE



John T. Morris, P.E. BCEE, Hon.D.WRE, F.ASCE

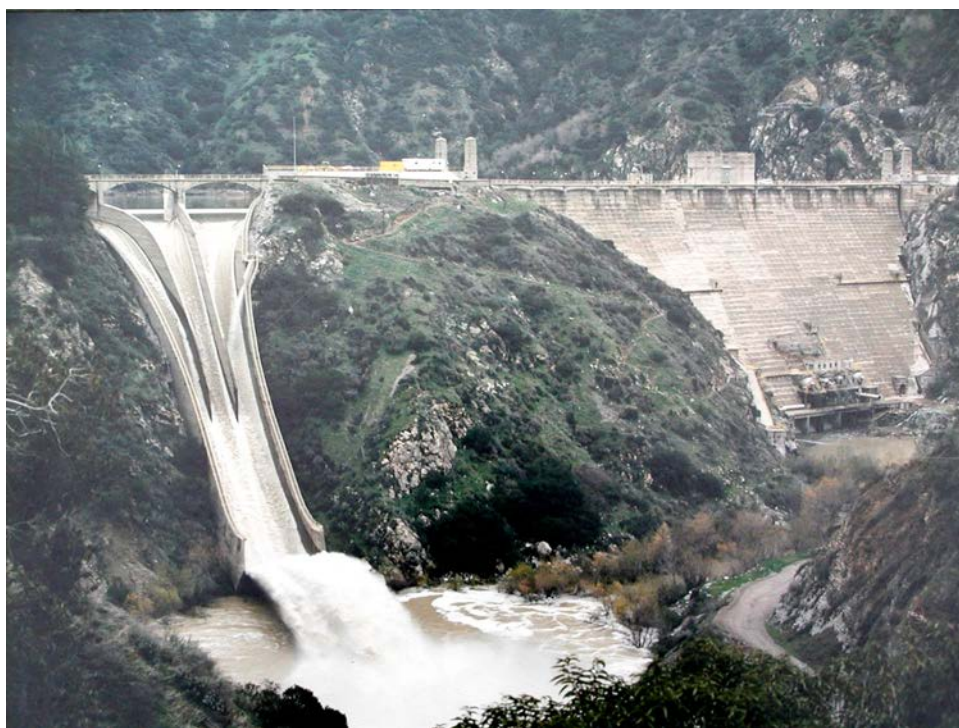
Next in line, came John's father, Brooks T. Morris, P.E., M.ASCE. Following in Sam's footsteps, Brooks studied at Stanford, and completed his B.S. and M.S. in Civil Engineering, as well as received his Engineering degree in Mechanical Engineering. While at Stanford, Brooks competed with David Packard, co-founder of Hewlett-Packard, to become a member of Phi Beta Kappa. Brooks was the first to obtain this distinction. Brooks first started his career by working on the Hoover Dam, but moved to Aerojet to complete rocket design. In the early 1950's, however, he became the Chief Propulsion Engineer of Marquardt, and also designed engines for the Bomarc Missile. Later, Brooks worked as the Head of Quality Assurance and Reliability at the Jet Propulsion Laboratory (JPL), and after the Apollo 13 explosion, served on

Undoubtedly influenced by those before him, John T. Morris, P.E., BCEE, Hon.D.WRE, F.ASCE stated, “The reason I am what I am, is because of my grandfather.” John worked part-time at the Pasadena Water Department, before joining the Navy Seabees and attending Engineering Aid School in Rhode Island. After the intensive program, he moved to Vietnam to perform design drafting. One project was an aerated lagoon system to treat the wastewater from Camp Tien Sha. Upon his return to the United States, he enrolled at the University of Southern California (USC) to obtain his B.S. in Civil Engineering. Once completing his degree, John solicited his neighbor, Irvan F. “Irv” Mendenhall, P.E., Pres.81.ASCE, for career advice. It was then that he was offered a job at Daniel, Mann, Johnson and Mendenhall (DMJM). During his career, he worked at other companies as a Project Manager, and Director of Engineering and Planning, before beginning his own practice. He has had the distinct honor of working on projects in Nepal, India, Egypt, Korea, and the Philippines dealing with water and wastewater design. John also helped with the National Water Resources Conference, served as Chair of the Policy and Procedures manual for the ASCE LA Section, and served as President of the ASCE LA Section.

Finally John’s son, J. Matthew “Matt” Morris, is the last (for now with hopes of more to follow) of five generations to work in water resources in California. After attending Harvey Mudd College, Matt earned his M.S. in Civil Environmental Water Resources Engineering from UCLA. Post-graduation, Matt worked initially as an intern for Montgomery Watson Harza (MWH), until they hired him full-time. However, Matt soon began Spatient Technologies, an internet-based water and water facilities software company, with his friends. Seven years later, it was purchased by Trimble, where he continues to work now.

Although not a Civil Engineer, there is one last piece to the Morris family’s engineering puzzle; John’s youngest son, Jeff. He is a fourth generation Professional Engineer, who works as an Electrical Engineer, completing design work for water and wastewater facilities.

The Morris family has contributed greatly toward creating efficient water supplies in California, and around the world. When asked about future generations of civil engineers, John commented, “There are 1 billion people without a quality water supply in the world, and there are 2 billion people without access to sanitation. I hope future generations will take care of that issue.”



Morris Dam in the San Gabriel Canyon

SARDINAS FAMILY

A family of civil engineers in Cuba bring their knowledge to the United States.

Alina “Ali” Morlote Sardinas, A.M.ASCE’s interest in civil engineering developed while she was still in high school. At that time, her uncle, Berty Morlote, was working on a new highway in Cuba, which was being built in a partnership with an Italian company. Berty invited Ali to come help with the project, and she completed small-scale technical work, while having the opportunity to see the job site. Fascinated by the project, Ali said, “I was hooked from then on!”



Ali went on to study civil engineering in college, and after completing her degree in Cuba, began taking graduate-level classes. Soon after, Ali emigrated to the United States, and received guidance from her great-uncle, Marcelo Morlote. In Cuba, Marcelo worked in roadway and railroad design, airport design, site development, and utilities design, but after he began his career in the United States, he mainly worked on highway and land development projects. Ali was similar in her interests, and roadway design remains her favorite specialty today. Complementing this perfectly is her M.S. in Civil Engineering with a concentration in Transportation from Florida International University.

Even though Ali was influenced by her uncles, her number one fan was always her mother. Being a college professor with a Ph.D., Ali’s mother understood the importance of education. Ali commented, “Above all, I credit my mother for promoting, endorsing, and contributing to my love for civil engineering... she made me realize that education is paramount. The choices you make influence your life and you need to study what you enjoy.” Ali has been able to do just that, and engineering for her is not just a job. She even incorporates it into her personal life; most recently, by visiting her cousin in Spain on vacation, and touring the work that he completed at the futbol stadium in Barcelona. She and her husband traveled to Norway to see the Atlantic Road and the Laerdal Tunnel, which--at 24 km--is the longest tunnel in the world.

Ali hopes that the engineering legacy will continue in her family. Her son, Albert Sardinas, is currently studying Biomedical Engineering at her Alma mater, the Florida International University, and she couldn’t be more proud of his decision. Ali’s husband, Alberto Sardinas, is also in the field, as he fixes and maintains bridges for the Florida Department of Transportation. Ali remarked, “Engineering is an important profession in my family, and keeping the tradition alive continues to be a priority for me.”

The Sardinas family truly understands what it means to be civil engineers, and through Ali’s son, Albert, it is clear that the next generation of engineers has a bright future.



Ali and her husband at graduation day

GRAVES FAMILY

Military service and engineering run through the veins of the Graves family. Ralph H. Graves, Ph.D., P.E., M.ASCE continued his family's tradition of engineering graduates from West Point.

The Graves family has a strong legacy of engineering and dedicated military service. Four generations of Graves men have graduated near the top of their class from the United States Military Academy at West Point, and went onto lead successful Army careers. Each generation has passed along a sense of devotion to pursue the profession.

Engineer Memoirs



Rogers Birnie, Class of 1872, No. 1



Ernest Graves, Class of 1905, No. 2



Ernest Graves, Jr., Class of 1944, No. 2



Ralph Graves, Class of 1974, No. 1

Four Generations of West Point Graduates

Four generations of Graves West Point graduates.

Rogers Birnie started the tradition of engineering at West Point with his graduation in 1872. He was commissioned in the Army Infantry as a junior officer and spent the early part of his career as a surveyor excelling in topography. Early engineers like Rogers became the teachers of others, and provided scholars the opportunity to explore the frontier by mapping the region. Later, he was in the U.S. Army Ordnance Corps and helped introduce refretage to the U.S. manufacture of artillery pieces. He is widely acknowledged for moving gun construction towards an exact science, and was recognized as one of the world's leading gun experts.

Ralph's grandfather, Ernest Graves, sought the security and adventure of an Army career after growing up in Chapel Hill, North Carolina. He excelled as a student and athlete at West Point, and graduated in 1905. He commanded the Vicksburg District, served as head football coach at West Point and line coach at Harvard, and worked as an Engineer Company Commander with General Pershing's 1914 Punitive Expedition into Mexico. Although

this force that pursued the infamous Pancho Villa was mostly cavalry, it was resupplied largely with trucks, which needed roads to drive on, and engineers to build them. Ernest then accompanied Pershing to France in World War I, overseeing construction of warehouses, supply roads, and railroads. After the war, he retired from the Army, but returned to active duty in 1927, serving as the Washington, D.C. "resident" member of the Mississippi River Commission until 1950.

Ernest Graves, Jr. was the third generation to also attend West Point, graduating in the D-Day class of 1944. He served in Europe, and in the occupation of Japan. Graves left Japan in September 1946 for assignment to the Manhattan Project at Sandia Base in Albuquerque, New Mexico to form a military unit to assemble nuclear weapons, and later helped set up the Army's Package Nuclear Power program. He attended the Massachusetts Institute of Technology, and earned a Ph.D. in physics in 1951. At the Lawrence Livermore Laboratory, he headed the Nuclear Cratering Group, experimenting at the Mercury Test Site in Nevada for a never realized sea-level canal to be excavated across the isthmus of Central America with nuclear explosives. After commanding an Engineer Group in Vietnam, he oversaw Corps activities in the Great Lakes region, and then was Director of Civil Works and Deputy Chief of Engineers. In retirement, he has volunteered to manage projects at the Army Navy Country Club in Northern Virginia, leading the renovation of the golf course, and the building of a new clubhouse at one of the club's two sites in the 1990's, and currently a \$52 million new clubhouse at the club's main site.

Impressed by the variety and excitement of his family's careers, Ralph Graves followed them to West Point, and graduated first in his class in 1974. After college, he served in Korea and Germany with Cold-War combat engineer units, and was deployed to Desert Storm with the 1st Armored Division. As deputy in the Baltimore District, and commander in Honolulu and Seattle, he oversaw hundreds of civil works, military constructions, and environmental restoration projects. Retiring from the Army in 2003, he next managed project controls on the Alaskan Way Viaduct Replacement Project (now under construction as a deep-bored tunnel) in Seattle for Parsons Brinckerhoff. Today, he serves as Capital Development Director for the Port of Seattle.

Ralph shares that his, "generational succession was the product of upbringing. Both fathers took a great interest in their sons' education, especially in math. My grandfather and my Dad built a fort for young Ernest's tin soldiers out of concrete. In turn, my Dad guided me in the perhaps unique father-son project of making a slide rule. (It's easy: you start at the logarithmic table....) Though they are both doing fine, neither of my children are civil engineers – maybe we should have made slide rules together."



West Point Academic Building

SCHUBERT FAMILY

The Schubert family tradition is launched by road and paving contractors in Illinois.

William Schubert, P.E., M.ASCE grew up seeing the fruits of his grandfather's labor every summer. William's maternal family members were road and paving contractors from Quincy, Illinois, and much of their work connects Quincy with the communities along the Illinois River. Starting at a young age, William was able to appreciate the railroads and roads that his grandfather built, commenting that the "experience caught my imagination and helped guide me to my profession in civil engineering."

After spending some of his spare time working on farms, William was fascinated by soils, and wanted to study agricultural engineering. However, Marquette University did not offer that specific major. He was advised that he could study civil engineering, and obtain a co-op with a soils engineering company. William agreed, and was eager to begin learning more about soil and geotechnical engineering. After getting his B.S. in Civil Engineering, he shifted gears and worked in design with Beling Consultants, while working evenings on a M.S. in Civil Engineering with Geotechnical Engineering from the Illinois Institute of Technology. It was at this job that he learned geotechnical design and environmental engineering in a variety of constructed projects, later leading him to a job at Waste Management (WM). He has been a proud employee at WM for thirty-two years, and feels grateful that he gets to work with the best in his field every day.



(L-R) Kevin, William, Mike, and Steve Schubert.

William's sons are carrying on the civil engineering legacy, for the Schubert family. His son, Michael Schubert, A.M.ASCE, attended the University of Notre Dame for his B.S. in Civil Engineering, and then later went onto the University of Iowa for his M.S. in Civil Engineering. He is now working as a Water Resources Engineer with HDR. His other son, Steve Schubert, A.M.ASCE, earned his B.S. in Civil Engineering from Valparaiso University, and his M.S. in Civil Engineering from the University of Wisconsin-Madison. Steve works as a Geotechnical Engineer at Patrick Engineering in Lisle, Illinois. At graduation, William proudly gave Steve a framed article about his great-grandfather's work, as Steve now continues the tradition of geotechnical construction and engineering. William also has a nephew, Kevin Schubert, P.E., who is a graduate of University of Wisconsin-Platteville, and works as the Assistant City Engineer in Onalaska, Wisconsin.

, AUGUST 30, 1940.

**OLD BRICKMAKER
RECALLS BUILDING
WORK YEARS AGO**

Headline from the article about William's grandfather, later framed and given to his son, Steve.

Beyond inspiring his own sons, William believes that engineering education for K-12 is vital, and is actively involved with STEM initiatives at local universities. He believes we "need to compensate" for the lack of engineering exposure provided to young students. He also feels that too many children are deterred from the pursuing the profession at a young age if they aren't stellar in math. His son, Mike, also shares this belief, and volunteers at a STEM initiative called Project Lead the Way, taking place at his local high school in Des Moines.

When asked about keeping the legacy alive, William commented, "I am proud of our family values of environmental stewardship and public responsibility. I am also proud of our entire family, and the decisions they make in their careers to contribute to society. I know that my sons and nephew made independent decisions to enter the profession, but I would like to think that our family history in the industry has affected those decisions in a subtle, but profound way."

MEANS FAMILY

Jerome Means, P.E., L.S., M.ASCE carries on his father's civil engineering legacy after his untimely death.

Noel Dennis “Denny” Means, P.E., was the second in his family to break the mold of medicine and dentistry. One of his cousins owned a local consulting engineering and land surveying firm in DuBois, Pennsylvania, and Denny “was always determined to find simple solutions to complex problems,” commented his son, Jerome D. Means, P.E., L.S., M. ASCE. After graduating from Lehigh University, Denny worked for two different engineering firms in Pennsylvania, before relocating to the Rochester, New York area in 1967. While in Rochester, Denny worked for two prominent consulting engineering companies, until he started his own consulting engineering firm in 1974.



Jerome Means, P.E. L.S. M.ASCE

Growing up, Jerome helped his father out with various civil engineering projects. He assisted in site development, water and wastewater treatment facilities, and completed typographic and construction stakeout surveying work. These experiences influenced Jerome to become a licensed Land Surveyor, and later to receive a B.S. in Civil Engineering from the Rochester Institute of Technology. After completing his education, Jerome later became a licensed Professional Engineer in Pennsylvania and New York. Although Jerome still maintains his Land Surveying license, he now works at Stantec Consulting Services, Inc., as a Senior Civil Engineer, completing projects in site development, hydraulics and hydrology, storm water pollution prevention, and flood control.



Denny on Graduation Day, 1958.

Unfortunately, Denny’s untimely death in 1989 prohibited him from seeing all of his son’s accomplishments, but Jerome would be happy to see the legacy live on through his own family. He said, “I would be honored if my children were to follow in my footsteps and my father’s, but I always want them to follow their own path in life...[they] all have the skills, knowledge, and desire to become great engineers one day if they so choose.” Jerome commented that his daughter in high school has expressed an interest in engineering, which would mark the third generation of engineers for the Means family.

When asked what his greatest accomplishment as a civil engineer was, Jerome said, “I am becoming a role model that other engineers in my firm look to for advice and guidance as they work on complex projects. I am also proud to be able to show my family the various projects that have been constructed because of my knowledge, commitment, and contributions.” Naming his father as the greatest influence in his career, Jerome is proud to carry on the Means family civil engineering legacy.

BYLE FAMILY

Jennifer Byle, P.E., M.ASCE recalls her family vacations with her father to civil engineering sites around Michigan. She now works on the reconstruction of the road that inspired her father.

Tom Byle, P.E., F.ASCE, began his interest in civil engineering in the 1960's with the building of the I-196 highway through downtown Grand Rapids, Michigan. When Tom announced that he wanted to drive the equipment and build roads, his father replied, "No, you want to be a civil engineer so you can tell the operators what to do. You need to go to Michigan Tech." Tom followed his advice and attended Michigan Technological University, where he successfully earned his civil engineering degree in 1972.

Tom joined the Kent County Road Commission immediately after graduation, and currently still works there, serving as the Assistant Director of Engineering.

His daughter, Jennifer Byle, P.E., M.ASCE, grew up watching her father work as a bridge engineer and travelled around Western Michigan to visit project sites. These engineering projects inspired her to follow her father's path to Michigan Tech, and major in civil engineering. After graduation in 2005, she joined the URS Corporation in Grand Rapids as a transportation engineer.

The Byle family came full circle when Jennifer worked on the reconstruction of I-196, the road that inspired her father. Since then, the father-daughter team have collaborated on the Fred Meijer M-6 Bikepath, jointly winning the Michigan Section APWA Project of the Year award in 2010. Jennifer and her father continue to work to improve the quality of life for their community, by strengthening America's infrastructure.



Jennifer and Tom Byle in 2010 with Project of the Year Award.

OZBEK FAMILY

Mehmet E. Ozbek, Ph.D., A.M.ASCE, has engineering in his family, with an international flair. His family originated from Turkey, and all hope a third generation will follow the family tradition.

Mehmet E. Ozbek, Ph.D., A.M.ASCE has an international engineering family from Turkey that started with his father, Mr. Ahmet Ozbek. Ahmet worked in the construction industry in Turkey for many years before retiring as the CEO of a construction company. His wife, Dr. Tulay Ozbek, also a civil engineer, is currently an Emeritus Professor in the Civil Engineering Department, at one of the most well-respected colleges in Turkey.

Engineering was a strong pull for the next generation of Mehmet's family. His older sister, Dr. Burcu (Ozbek) Akinci, Ph.D., M.ASCE, is a civil engineer who earned her bachelor's degree in Turkey. After moving to the United States, she attended Stanford University, where she earned a M.S. and Ph.D. in Civil and Environmental Engineering. She now works as a professor at Carnegie Mellon University in the Civil and Environmental Engineering Department. Burcu's husband, Mr. Mehmet Akinci, is also civil engineer, who received his bachelor's degree in Turkey. He moved to the United States to start working in the construction industry. He is currently the General Manager of a construction company in Pittsburgh.



Mehmet E. Ozbek, Ph.D, A.M. ASCE at the Hoover Dam in Nevada

Mehmet E. Ozbek followed the footsteps of his father, mother, and sister. He earned a degree in civil engineering in Turkey, and later attended Virginia Tech for both his M.S. and Ph.D. in Civil Engineering. He currently teaches as an assistant professor and the graduate program coordinator in Colorado State University's Construction Management Department. His wife, Dr. Pinar Omur-Ozbek, Ph.D., A.M.ASCE is an assistant professor in the Civil and Environmental Engineering Department at Colorado State University.

In short, the Ozbek family is a story of two generations chock full of civil engineers, with the first generation serving communities in Turkey and the second generation serving communities in the United States. They are also divided between one group working in the industry and one group working in academia. Regardless of the communities they serve, the Ozbek family shares a passion for this great profession and hopes to continue this legacy by inspiring the next generation. There is quite the discussion around the family dinner table as Mehmet's niece is in the process of applying for colleges, with civil engineering being her top choice, of course.



Mehmet Ozbek and his engineering family

HENDRICK FAMILY

Ten Hendrick civil engineers, ten University of Oklahoma graduates!

With ten civil engineers in the family, it goes without saying that the Hendricks are dedicated to the profession. Robert B. Hendrick was a founding partner at Hendrick & Hendrick Engineering with his brother, Finis Hendrick, and then later founded Robert B. Hendrick & Sons Engineering. Robert's son, Tom, fondly discussed the frequent trips that he took to the offices growing up, "I remember seeing people all drafting at desks, rooms full of blueprints, and the unique smell of the office from blueprints, which were printed on ammonia based machines back then... it was exciting." Robert's wife, five sons, and daughter all spent time at his company working on surveying teams, drafting, and performing administrative work. This experience, in conjunction with an aptitude for math and science, influenced four of the brothers to continue the engineering tradition, and head off to college in pursuit of civil engineering degrees.



(L-R) Dave, Michael, Bill, Tom, and Alan

Brothers Bill, Alan, Dave, and Tom attended the University of Oklahoma (UO) for their B.S.'s in Civil Engineering, as well as their M.S.'s in Structural Engineering. While at school, they relied on their advisor, Dr. Tom Murray, Ph.D., P.E., for guidance. Dr. Murray was instrumental in the decisions of all four to become structural engineers, and also helped each of the Hendricks publish papers to the American Institute of Steel Construction. During their college careers, they were able to learn from each other, in a literal sense. While Bill was working for the university, Alan was one of his surveying students. Alan was able to continue the tradition, and have Dave as a surveying student. Tom joked, "It was pretty funny that they had each other as students, even if I was left out!"

All of the Hendricks have different niches within civil engineering, but they would love to see the legacy continue on. This is already the case, as Michael Hendrick, Dave's son, graduated in May 2012 from the University of Oklahoma with a B.S. in Civil Engineering, and is currently working on his M.S. in Structural Engineering, again at OU. Unfortunately, Michael's grandfather, Robert, is not here to revel in the accomplishment, but "we all know how proud he'd be," commented Tom.

The Hendricks take pride in their family's history, and "we think we are somewhat unique," said Tom. Currently, Dave and Bill work as Project Managers at Sandia Laboratory, Alan is now the President of Robert B. Hendrick & Sons, and Tom is a partner at Wallace Engineering, a consulting company that works on buildings all over the United States. Robert's fifth son, Don, although not an engineer, but rather a retired teacher, recently returned to help with surveying work for Robert B. Hendrick & Sons; and sister, Sharon, also a teacher, still spends time at the company helping with mortgage surveys and administrative duties.



Courtesy Flickr/Edward Stojakovic

The University of Oklahoma is important to the Hendrick family.

PUNTIN FAMILY

A family works together to build a roof over their heads.

For Anthony “Tony” Puntin, P.E., F.ASCE, there was never an “aha!” moment when it came to choosing his career, but his interest in civil engineering can clearly be traced back to his grandfather. As an immigrant from Italy, Tony’s grandfather, Atillo, found a job as a heavy machinery operator. Tony’s father, Donald, inspired by Atillo’s career, decided to pursue a career in construction and went to UMass Amherst, receiving a B.S. in Civil Engineering.



Anthony Puntin, P.E., F.ASCE

Growing up in the Puntin household required a lot of heavy lifting, quite literally. There were never any outside contractors hired for repairs or additions, so the family worked together to get things done. In fact, the Puntin family crew built the house in which Tony’s parents still live today. Tony’s summer jobs throughout high school and college were in construction as a laborer, or loading trucks in the yard. While these were physically demanding and sometimes dirty jobs, Tony said, “I got to see things from the ground up which was very rewarding.”

Following in his father’s footsteps, Tony attended UMass Amherst, and graduated with a B.S. in Civil Engineering. He started his career at the Massachusetts Department of Transportation, and most of his experience has been in highway and roadway design. He is currently a Senior Project Manager for the Louis Berger Group, Inc.

Tony’s older brother, Brian, also had an interest in engineering, receiving his Associates degree in Science, with a concentration in Engineering. Likewise, Tony’s younger brother, Matt Puntin, P.E., M.ASCE, decided to pursue engineering as well, and obtained a B.S. from UMass Amherst in Civil Engineering. Tony has many other cousins who have chosen careers in civil engineering, and he hopes that the legacy will continue on in the family.

As a former ASCE Board Member, Tony believes that engineers have a duty to be leaders in their communities. He hopes that, “future generations will realize that they can be more than just engineers. They have the capability to be leaders in the community. They *should* be leaders of their community. I hope that the next generation will be able to better educate the public as to the vital importance of our nation’s infrastructure.”

Tony’s father has since retired from construction, his older brother is working as a teacher, and his younger brother works for a small civil engineering company. Tony has worked his way into a managerial role at his firm. When asked about his greatest accomplishment, he responded, “I take pride in knowing that I have worked hard to be responsive to clients and provide the best design possible. Additionally, I hope that my efforts within ASCE have contributed to the advancement of our profession.”



Brothers Brian and Tony, with cousins Chris and Matt at the site of their new home.



Brothers Brian and Tony helping their father build the foundation of their new home.

CASSIN FAMILY

Airport engineers are abundant in the Cassin family.

Richard B. "Rich" Cassin, P.E., M.ASCE is a proud, third generation airport civil engineer. He attributes his career to his mother, Jane's, influence saying, "She knew I was good at science and math, and her father, brother, and husband were all engineers. She strongly suggested that I apply to engineering schools." He didn't know it at the time, but he would also marry a civil engineer, marking the fifth Cassidy/Cassin family member to practice engineering.



Cassidy/Cassin family members taken in June 2013 at Hershey, Pennsylvania. (L-R) Maia Cassin, Stefanie Cassin, Daniel Cassidy, Garrett Cassin, Andrew Cassin, and Richard B. Cassin.

Although not a Civil Engineer, Rich's maternal great-grandfather, Joseph Cassidy, worked as a laborer at the Rosendale Cement Company in Ulster County, New York. This company supplied the concrete for many notable civil engineering achievements, including the Brooklyn Bridge. With possible motivations stemming from his father's career, Rich's grandfather (and Joseph's son), Daniel Cassidy, was the first to become a civil engineer, when he graduated from the University of Notre Dame in 1932 with a B.S. in Civil Engineering. After a long career, he retired as Deputy Administrator for the Federal Aviation Administration (FAA) in New York, based out of John F. Kennedy International Airport. Daniel was instrumental in negotiating the purchase of the land used for the airport, and traveled around much of America, spending a large amount of time in Alaska, planning for the construction of airports.



A barrel from Rosendale Cement Company.

Next in line was Daniel F. Cassin, Rich's uncle (and Jane's brother), who was also a graduate of the University of Notre Dame. After obtaining his degree in Civil Engineering, he went on to work in Ohio and New York, before settling down in the Harrisburg, Pennsylvania area. It is there that he also served as the Deputy Administrator for the FAA Regional Office at the Harrisburg International Airport. A true lover of aircrafts, he got his pilot's license, and still enjoys flying in his free time today.

Rich's dad, Richard H. Cassin, graduated in 1957 from Brooklyn Polytechnic University (now called Polytechnic Institute of NYU) with a B.S. in Mechanical Engineering. Throughout his career, he worked in many different and challenging places. His first job was designing helicopters, but he later worked for Grumman, completing work on the Apollo Lunar Module. He also spent time at several large engineering firms including Gibbs & Hill in New York City, which was later bought by the URS Corporation, the same company that Rich now works for.



Terminal 8 for American Airlines at JFK Airport.

After a long line of engineers, Rich graduated in 1990 from the University of New Hampshire with a B.S. in Civil Engineering. Rich's greatest professional accomplishment was building Terminal 8 for American Airlines at JFK Airport (see above photo during construction), something that he particularly enjoyed due to his grandfather's previous involvement securing land for the airport. Now, he works for URS on redevelopment for LaGuardia Airport, which includes new roads, and parking facilities.

Finally, Rich's wife, Stefanie, is a civil engineer, with a degree from Purdue University. She works at HDR, and is a Highway Transportation Project Manager. When asked about keeping the legacy alive in Rich's family he said, "Engineers have done some amazing things to conceive and build the modern world that we live in today. My family's history in contributing to these developments is interesting to learn about... I have two sons and a daughter... With both parents being engineers, it will be interesting to see how their careers develop."

KLOTZ FAMILY

A family of civil engineers, including a former ASCE president, starts a civil engineering company during a recession.

The Klotz civil engineering legacy dates all the way back to 1908, when W. Emmett Sampson graduated with a degree in Civil Engineering from Texas A&M University (TAMU). In 1942, his nephew, Bill Klotz, P.E., M.ASCE, graduated from high school, and had dreams of attending college, but unfortunately did not have the financial resources to do so. However, a phone call from Uncle Emmett changed his luck, and he was able to continue the civil engineering legacy at TAMU. After serving in the war for two years, Bill graduated in 1948 with a B.S. in Civil Engineering, and begun a fruitful career that would take him from Junior Engineer, to President of Lockwood, Andrews & Newnam, Inc. (LAN). And, fifty-one years after graduating, he proudly became a Distinguished Alumnus of TAMU.



D. Wayne Klotz, P.E., D.WRE, Pres.09.ASCE

After listening to Bill talk about work at the dinner table every night, his son, D. Wayne Klotz, P.E., D.WRE, Pres.09.ASCE, decided that he, too, wanted to study engineering at his father's alma mater. Wayne began on his path toward becoming a Mechanical Engineer, but, after a year, decided that the subject matter disinterested him, as did the faculty. With his father's blessing, he began taking Civil Engineering courses, and worked as a draftsman in the summertime. In 1974, Wayne proudly graduated with a B.S. in Civil Engineering, obtained a job, and began graduate school at the University of Houston where he received his MSCE in 1976. He commented, "I was married, working full-time, and going to school. I don't know how I did it!" Wayne then went onto work in



Bill and Wayne at Klotz Associates' 20th Anniversary Reception.

In 1985, Texas faced a major problem; the oil industry collapsed, and so did the real estate market. It was in this year that Bill and Wayne teamed up to start Klotz Associates after the bank took over another company's operations. Wayne commented, "It was extremely challenging. The motto was 'stay alive in '85.'" Two years later, Klotz Associates was still relatively small but thriving, with 12 employees on the payroll. Today, they have more than 100 staff members, and are currently in the process of hiring more! In fact, three of their staff are family members, Gary Struzick, P.E, CFM, David Klotz, and Mike McClung, P.E.

With family members in a variety of civil engineering specialties: structural, water resources, transportation, and hydraulics, the Klotz family has truly grasped the importance and breadth of this wonderful profession. Bill stated, "Civil Engineers contribute to the quality of life... as long as people are living, we will need civil engineers." Noting his greatest professional accomplishment as serving as the President of ASCE, Wayne has high expectations for the future of civil engineering. He said, "My personal belief is that we build civilization. I hope we continue to move towards sustainability... and use better materials that last longer and enhance the environment. Beginning now."



Bill and Wayne at Klotz Associates' 20th Anniversary Reception.

KOSITSKY FAMILY

Paying it forward is important to Andy Kositsky, inspired by his own civil engineering mentor.

Engineering not only keeps our society moving smoothly, it also can create a lifetime of professionals dedicated to “making a difference.” Andrew “Andy” Kositsky, P.E., M.ASCE and his family have spent their careers doing just that.

Andy’s legacy story starts with his great uncle Jack Kositsky, a Structural Engineer and Architect who helped communities stabilize buildings for earthquakes in California. You can see Jack’s influence with the renovation of the Campanile Bell Tower at the University of California, Berkeley. This project improved the tower’s resistance to earthquakes and erosion from rainwater, and it created a new architectural and structural frame for the tower bells. Jack also assisted engineers in rebuilding Pearl Harbor after the WWII attacks, and worked on the Alaskan Highway. His passion in engineering inspired both family and community members.

Andy, with a little push from Jack, completed his B.S. in Civil Engineering from Drexel University, and later graduated in 1991 from the University of California, Berkeley with a M.S. in Civil Engineering. As a geotechnical engineer, he has overseen the successful execution of geotechnical engineering in consulting practice, as well as created an innovated earthwork/foundation design

for the Yahoo! Campus in Sunnyvale, California. He designed battered micropiles for a winery building on landslide deposits, shoring for a deep excavation in rock for a hydroelectric plant, wine cave tunnels, and anchored shotcrete retaining walls for tunnel portals.

As an ASCE member for over 20 years, Andy finds involvement in technical seminars and publications rewarding, as it allows for relationships in engineering, construction, and social circles to develop.

In the future, Andy hopes to “pay it forward,” and introduce younger generations in his family and community to the civil engineering profession. He is optimistic that future civil engineers will achieve success through careful use of computer tools, along with observational skills and engineering judgment. He also wants them to develop more innovative and cost-effective designs, and construction methods that utilize alternative materials. Andy’s story would not have been possible without the inspiration from Jack’s message to “make a difference.”



Andrew “Andy” Kositsky, P.E., M.ASCE



Campanile Bell Tower at the University of California, Berkeley.

KERR FAMILY

Kenneth Kerr P.E., M.ASCE, immersed himself in ASCE student competitions during his time at college, relishing the hands on experiences they provided.

Growing up in South Florida, the Kerr family had the experience of watching one of America's busiest road systems develop over time. Kenneth Kerr P.E., M.ASCE, was inspired by his father, Harold Kerr, Jr., who was a civil engineer, and wanted to follow in his footsteps by helping to shape our transportation system. Kenneth was fortunate to have many opportunities as a child to spend time with his father and his colleagues at their office. It was there that he learned about civil engineering and the importance that infrastructure plays in the community and came to appreciate the value of engineering for the development and welfare of the public.

Harold Kerr, Jr.'s career took place with the Florida Department of Transportation (FDOT) as a Professional Engineer. As the FDOT District 4 Department Head for Project Development and Environmental Management in the 1980s and 1990s, his responsibilities included developing the preliminary design and obtaining FHWA approval for many of the main projects throughout most of South Florida; including I-595, I-95 and I-75. He retired after spending more than 33 years with the FDOT and continued working in the civil engineering profession conducting Value Engineering studies for many DOTs across the USA.

Kenneth was so impressed with what civil engineers could accomplish that he attained both his Bachelor and Master Degrees in Civil Engineering from the University of Florida. During his college years, Kenneth joined the ASCE Student Chapter which allowed him to work with other students on the Steel Bridge and Concrete Canoe competitions. He recollects "relishing time as a student member and the hands-on practical experience it brought with team-building and problem solving." He continued his work with professional societies by later serving as President of the ASCE Florida Section - West Coast Branch.

He currently works with Jacobs Engineering Group specializing in transportation structures and is a Professional Engineer registered in multiple states. He has been a part of complex design challenges throughout the USA; including five-level interchanges, tunnels and long water crossings. His design experience includes curved steel girders (box and plate), spliced post-tensioned concrete girders as well as many other bridge types and transportation related structures.

Kenneth believes that "each generation is tasked with creating better and more sophisticated solutions to help society cope with the demands that our community places on our profession," and hopes "future generations of civil engineers continue to expand the knowledge and understanding of the applied physical sciences that the past generations have developed in order to solve tomorrow's ever growing problems."



Kenneth Kerr P.E., M.ASCE



Harold Kerr, Jr

GOUDA FAMILY

Not all legacies require blood relationships. Moustafa Gouda, P.E., D.GE., F.ASCE, found his inspirations from a mentor after arriving in the United States.

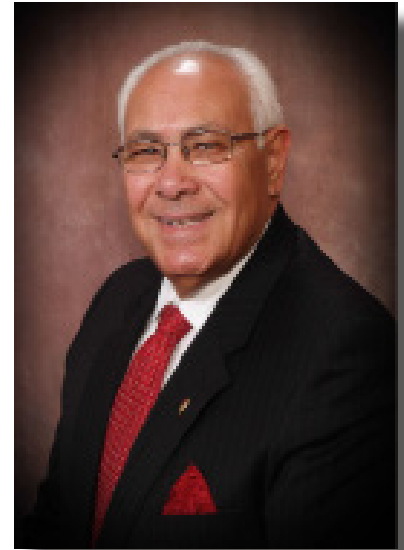
Moustafa Gouda, P.E., D.GE., F.ASCE, has been an outstanding leader in the civil engineering profession - the US Congress even declared a holiday in his name: Moustafa Gouda Day, celebrated on May 14, 1999.

His story begins in Egypt, where he was born in 1942. Moustafa had a wonderful K-12 education which prepared him well for his collegiate studies. He received a B.S. in Civil Engineering from the University of Cairo in 1964, and during his time there worked two separate summer internships in Germany. This was just the beginning of his global adventures. He then went on to obtain his M.S. in Geotechnical Engineering from the same university in 1968. From 1964-1969, Moustafa worked as a Resident Engineer constructing two Sheraton Hotels; one at a resort on the Red Sea (pictured below), and the second a 40-story hotel in the heart of Cairo.

Moustafa immigrated to the United States in 1970 with his fiancée, Nelly, and \$200 in his pocket, in search of the American Dream. He had hope in his heart, and ambition and determination in his mind. He walked the streets of New York City, copying the names of consulting firms from each high-rise building he passed. He then knocked on doors, introducing himself as a civil engineer who just arrived from Egypt. Some were kind enough to let him fill out applications, but others said that he was either over-qualified, or did not have relevant U.S. experience. Finally, when he walked into Frank H.

Lehr Associates in East Orange, New Jersey, they offered him a job on the spot for \$9,500/year.

Shortly after being hired, Moustafa was called into Mr. Frank Lehr's office. Mr. Lehr questioned when he planned on getting married to his fiancée. Moustafa explained that he was not familiar with the American wedding process. As the Mayor of Summit, New Jersey, Mr. Lehr assured Moustafa that he would take care of the details, and his wedding date would be February 14, 1970. Luckily, everything fell into place, and Moustafa and Nelly were married at Hotel Suburban in Summit, New Jersey with Mr. Lehr officiating.



Moustafa Gouda, P.E., D.GE., F.ASCE



Moustafa at his first job at the Sheraton Hurghada on the Red Sea in the 1960's.



Although twelve inches of snow fell that day, they had a lovely reception that included the entire Frank H. Lehr staff, courtesy of Mr. Lehr himself. Moustafa jokes, "I always tell my wife the marriage license only cost \$2, but has cost me \$2 million since!" Following their wedding, Mr. Lehr continued to take Moustafa under his wing and mentor him. He even spent hours teaching him how to drive before the work day began, so that Moustafa could eventually receive his driver's license.

Moustafa returned 35 years later to Hurghada, where he started his career.

After happily working at Lehr for two and a half years, Moustafa moved on to take a job at Raamot Associates in New York City as a Project Engineer. During his time at Raamot, he lived in Algeria for three years, building compressor stations. The people there appreciated the fact that he was able to speak Arabic, as well as his willingness to travel. In 1978, Moustafa left Raamot Associates to take a job as a Project Manager for Mueser Rutledge, also in New York City.

In 1980, Moustafa joined Lippincott Engineering in Riverside, New Jersey, as Chief Engineer. Soon after, he became a Principal, and the company was renamed Lippincott, Jacobs & Gouda. When he first began working at the firm, he asked his boss if they would pay his ASCE membership fee. His boss told him that he would only do it if he participated fully in the Society's activities. Little did he know just how involved he would become. Moustafa served as the Philadelphia Section President, the NJ Central Branch and NJ Section President, ASCE Board Member and Treasurer on the Board of Direction, a Governor of the Geo-Institute, and held numerous other volunteer positions. Moustafa was nominated for ASCE President-Elect in 1999, where he shared the ballot with past president Kathy Caldwell, P.E., F.ASCE. Currently, Moustafa is the Chair of the Public Policy Committee.

Moustafa presently works as a Principal of Maser Consulting in Red Bank, New Jersey, with future plans to become a consultant before retiring. He has received many accolades throughout his 49 years as a civil engineer, including the Philadelphia Civil Engineer of the Year in 1987; the Central Jersey Outstanding Civil Engineer of the Year in 1995; the South Jersey Distinguished Engineer of the Year in 1999; and the Lifetime Achievement Award by the Delaware Valley Engineering Council for Services to the Engineering Community in 2006. Moustafa received his first P.E. license in New Jersey in 1973, and he now holds licenses in ten different states. He also received a second M.S. in Civil Engineering from New Jersey Institute of Technology in 1982.

Moustafa and Nelly reside in Marlboro, New Jersey. They are blessed with two sons, Tamer, 36, and Saher, 34, and one daughter-in-law, Hoda Gamil. While Moustafa has been to many different countries throughout his lifetime, there are two spots left on his bucket list: Scandinavia and China. He hopes to travel to both soon.

ZIMMERMAN FAMILY

Diane Zimmerman P.E., M.ASCE, is the eldest of three sisters, all civil engineers. Their father is proud to have inspired his daughters' career paths.

Diane Zimmerman P.E., M.ASCE, the eldest of three sisters is proud of her civil engineering family. Her father John Bridwell P.E., F.ASCE, inspired her career path, and she in turn inspired her siblings.

John started his engineering profession in 1961 after graduation from the University of Kentucky in 1959. He was passionate about designing and building bridges along the new Kentucky interstate highway system, often sharing stories at the dinner table. Family outings revolved around engineering projects, most frequently bridges. His daughters caught the engineering bug, and Diane followed his path to the University of Kentucky. Then, Linda Bridwell and Nancy Albright later followed their sister, Diane, in earning civil engineering degrees.

The Bridwell sisters continue to work in Kentucky communities, and also are involved with their ASCE section activities, including serving in leadership positions. John received the ASCE Kentucky Section Robert M. Gillim Professional Recognition Award in 1990, and a decade later Linda received the same recognition.

Diane is also married to Albert Zimmerman P.E., M.ASCE, also a civil engineer and graduate of the University of Kentucky. The sisters are hopeful that their children will gain an interest in pursuing civil engineering as well, but in the meantime, are happy to have the support of one another.



Albert, Diane, Charlene (mother), Linda, John, (father), Nancy, and James (Nancy's husband)

COSTICH FAMILY

A family engineering firm keeps the tradition alive.

In 1950, Chuck Costich (Charles Joseph Costich II), left his girl, and his way of life in upstate New York behind. He walked onto a plane that would take him half a world away working for the US Army Corps of Engineers in Korea. His job was two-fold: to build roads, dams and bridges for the United States and destroy North Korea's infrastructure to gain an advantage in the war. He was 22, and an "Engineer" in the Army.

Great soldiers are disciplined, tough and always perform; similar characteristics are those of a valuable engineer. In 1953, Chuck left the Army, keeping a keen sense of the built world around him. He would spend the rest of his life building his legacy; an engineering firm. Like so many others, the G.I. Bill got him started. Attending Syracuse University was the first step. Chuck learned the science and theory behind the roads and bridges he had been blowing up. He graduated with a B.S. in Civil Engineering and with the knowledge and life experiences begun his career in the mid 1950's.

As America hard wired itself in the post war years, civil engineers were in demand. Contracts for government work and private development were plentiful. Chuck was young, talented, and personable. Before long, he was a partner at a prominent firm in Rochester, New York. His clients loved him and so did his employees. Soon enough, he decided that he wanted to be the owner, not a partner, and Costich Engineering was born.

Costich Engineering was a success from the start. Chuck's contacts meant instant municipal work. Costich was also an early mover into major residential subdivisions in Western New York. Chuck acted as an engineer and also a mentor to up and coming engineers. Often there was more work than workers. The firm grew from 1 to 30 almost immediately. Chuck even put his wife, and three teenage children to work on inspections, surveys and deliveries.



Costich Engineering, P.C.

COSTICH FAMILY

Chuck's sons would take Costich Engineering to the next level. They grew up as football players and hard workers. On the weekends, they designed and built a lake-front cabin as a family. Soon they would be leaders in the office. Mark studied engineering at Rochester Institute of Technology. CJ (Charles Joseph Costich III) studied business at St. John Fisher College. Like their father, they took action soon after graduation. Mark became a licensed P.E., and CJ became a Licensed Surveyor. The firm invested heavily in new technology and quality employees. The client list grew to include regional powerhouses Wegman's Supermarkets and Genesee Brewery and national brands like Verizon Wireless, Kohl's and Walgreens. The firm also developed a specialization in waterfront development, with major projects on the Genesee River, Irondequoit Bay and Lake Ontario.



Mark R. Costich, P.E., M.ASCE

As Costich Engineering flourished, Chuck moved from President to advisor. Mark became the president and CJ the Vice President. Employees remained loyal and by 2010 the average term of employment was over 17 years. After 35 years, the firm had become a high-end regional firm with a reputation for discipline, toughness and performance.

Much like their father had done years earlier, Mark and CJ re-invested in Costich Engineering. They partnered with their sister Laurey Ritchie, a geologist, to form Stormwater Solutions, a firm specializing in storm-water management plans and inspection services. They acquired experienced professionals and they hired the next generation of Costich family members, Sarah Costich (Bachelor of Landscape Architecture, SUNY ESF 2009) and Michael Ritchie (Bachelor of Science, Civil Engineering Technology, R.I.T. 2009) after they graduated from college.



Charles J. Costich, III, L.S.

Today, the firm is thriving, and the next generation is following in the tradition of leading the company. Sarah and Michael are making progress in their paths to professional licensure. Times have changed, but discipline, toughness and performance Chuck Costich had learned a soldier and engineer are on display as his family directs Costich Engineering into the future.

DARTER FAMILY

Michael Darter, Ph.D., P.E., M.ASCE, takes an interesting trip through time to recall his father and great uncle's experiences in civil engineering.

Michael's father, Frank Darter, grew up in Fort Worth, Texas, in the 1890's, and as a teenager, learned surveying and mapmaking by helping his uncle, William A. Darter, the Tarrant County surveyor who prepared the first complete map of Tarrant County in the 1880s.



Michael Darter, Ph.D., P.E., M.ASCE

Michael's great uncle, William Darter, helped lay the foundation of Fort Worth, Texas, and was instrumental in bringing the railroad to the city. After fighting in the Civil War, William was educated and headed to Sacramento City, California, where he viewed a "parallel" ceremony of "driving the last stake" of the Union Pacific uniting the Atlantic and Pacific states. He returned home to Fort Worth where, in 1872, he was elected to Tarrant County surveyor. He held this position for six years as he prepared the first complete map of Tarrant County in the 1880's. He became active in the city and advocated bringing the railroads to Fort Worth. He was successful in bringing Texas Christian University to Fort Worth in 1910.

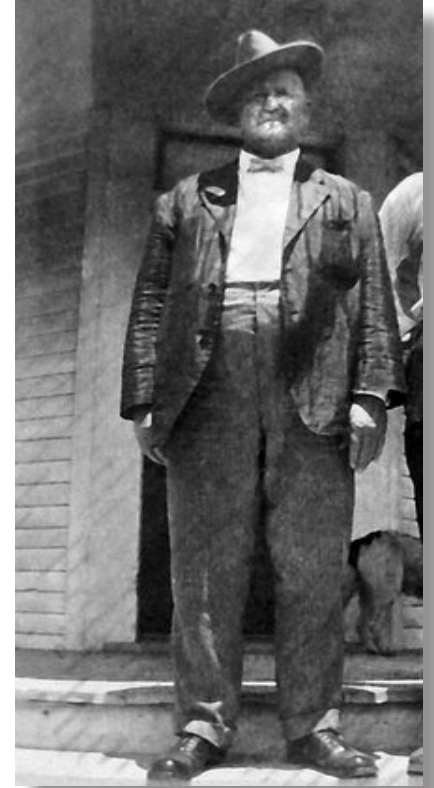
In 1902, Frank joined the US Navy and helped map American Samoa and other islands in the South Pacific for four years. In fact, he saved the life of his commanding officer on top of a mountain, when the officer took a transit reading of the long baseline established on the beach far below them, and stepped back into thin air. Luckily, Frank grabbed and pulled the officer to safety, just as the officer fainted. Under Frank's leadership, the crew returned down the mountain safely to the ship. The next morning after checking Frank's results, the navigator reported that the traverse closed properly, and they would not have to return to the mountain, to the amazement of his Captain.



Frank Darter circa 1930

DARTER FAMILY

Frank returned to San Francisco the day after the April 18, 1906 Earthquake, and observed firsthand the devastation and death that occurred from both earthquake and fires that broke out--about 3,000 people died and over 80% of San Francisco was destroyed. He often recalled that this horrible event focused him more than ever on a career in civil engineering to help people live more safely. After discharge from the Navy, he attended the University of Texas at Austin and got his B.S. in Civil Engineering, and promptly started working for Southern Pacific in Los Angeles. He spent his entire career in construction of bridges, buildings, and tunnels. He often recalled the many errors in plans that ended up costing lots of extra money to fix, and disgracing the design engineers who were sometimes fired. Frank would very often tell Michael to "check your work son, check your work" over and over again! When he retired, his supervisor described him as an engineer whose work even "God would not bother to check." Michael continues to teach his students and employees to do that also, to never accept results without checking them independently.



William Darter, Tarrant County Co Surveyor and inspiration to his nephew Frank Darter



Frank Darter with the University of Texas Survey Team, 1907

Michael started college as a typical child of the 1960's--as a music major--but staring poverty in the face he soon changed to Civil Engineering, inspired by all the exciting stories his father shared about his engineering career. He earned his B.S. in Civil Engineering from the University of Utah in 1966, M.S. in 1968 again from the University of Utah, and Ph.D. from the University of Texas at Austin in 1973. Although Michael continues to greatly appreciate music, he has never regretted his choice of career and has enjoyed all of his work in highway and airport infrastructure research, design, and construction. He became a professor of Civil & Environmental Engineering at the University of Illinois at Urbana-Champaign, establishing a consulting firm in highway and airport infrastructure engineering. His major contribution to the civil engineering field was in leading the concrete pavement team in developing the new American Association of State Highway and Transportation Officials (AASHTO) mechanistic based design procedure now under implementation across the United States and Canada. He recently served as a pavement designer for the \$2 billion concrete pavement reconstruction of Interstate 15 in Utah County.

The Darter family has been involved with various aspects of civil engineering for more than 130 years, and continues to be involved. One of Michael's children graduated in electrical and software engineering, and currently works in a traffic engineering consulting office. Michael explains, "we are very proud of serving the public in many ways over the years. And of course, we always check our work!"



Michael Darter and son in 2012

GOODKIND FAMILY

The Goodkind family consists of an past ASCE Foundation President, and a pair of bridges as their namesake.

Past ASCE Foundation President, Michael N. Goodkind, Ph.D., P.E., S.E., CVS, F.ASCE, has an extensive history of civil engineering in his family. In fact, his grandfather and uncle even have a pair of bridges spanning the Raritan River named after them. Located on U.S. Route 1 in New Jersey, the Morris (Northbound) and Donald (Southbound) Goodkind Bridges connect Edison on the north with New Brunswick on the south.



Michael N. Goodkind, Ph.D., P.E., S.E., CVS, F.ASCE

Michael's grandfather, Morris Goodkind, began the civil engineering tradition in 1904 when he graduated with a B.S. in Civil Engineering from Columbia University. He worked for the State of New Jersey, serving as the Chief Bridge Engineer for 25 years. During World War II, he also worked as a consultant to the war department in Washington, DC. Morris was involved in the founding the National Society of Professional Engineers, and was a District Director of ASCE, as well.

Michael's father, Herbert Goodkind, became the second engineer in his family after graduating with a B.S. in Civil Engineering from Rutgers in 1938. Originally planning to complete his degree in 1936, he took time off his sophomore year to work for a contractor. Morris was not happy with this decision, and even went as far as telling the contractors in the state to never hire him again if they wanted to work in New Jersey! Herbert joined the US Army after graduation, and was due to get out in 1942, but World War II intervened, causing him to spend time in Europe building bridges, which included working with his father on some of those projects. After the war, he worked for D. B. Steinman. Among the projects he was involved with while at Steinman was the Mackinac Straits Bridge in Michigan. In 1953, he joined the consulting engineering firm of Goodkind & O'Dea, which was started by his brother, Donald Goodkind, and James J. O'Dea.

Donald R. Goodkind, Michael's uncle, graduated from Cornell in 1942. In addition to studying civil engineering, Donald played football, and was part of the team that beat The Ohio State University in 1940. Following graduation, he joined the Navy, and originally trained to go to Europe, but was switched to the Pacific. After serving in the war, he attended the University of Illinois to obtain his M.S. in Structural Engineering. Then, in the early 1950's, Donald co-founded the consulting firm of Goodkind & O'Dea (now part of Dewberry). Twenty years later, Donald left the firm to become Deputy Commissioner of Transportation for the state of New Jersey. Following his tenure, he became involved with the consulting business again and moved to California, where he resides today.

One of Donald's sons, Steven Goodkind, P.E., left New Jersey and received his B.S. in Civil Engineering from the University of Vermont. Upon graduation, Steven decided to stay in the state, and is now the Director of Public Works for Burlington, Vermont.

After seeing all of his family's contributions to the field of civil engineering, Michael decided that he wanted to be a part of the tradition. He spent his last two years of high school working summers at Goodkind & O'Dea, further reinforcing in his mind that this was the career he wanted to pursue. Over the next 11 years, Michael obtained his B.S. in Civil Engineering from Rutgers in 1965, his M.S. in Civil Engineering from Iowa State in 1967, his Ph.D. in Structural Engineering from Northwestern in 1973, and his MBA from the University of Chicago in 1976. Michael spent time working for his father's firm, and in between his Ph.D. and MBA programs, completed structural and civil engineering work at other firms. After graduating from his MBA program, Michael began his career at Alfred Benesch & Company. He originally worked on civil projects, but later got involved with business development. In 1989, he proudly became the President of the company, and served in that role for 19 years. Michael stepped down as President in 2009, and retired in May of 2013.

Michael enjoys retirement, but is still involved in internal training on an "on-call" basis. His wife, Mary E. Goodkind, also has her M.S. in Civil Engineering, making her the sixth civil engineer in the family. A true people person, Michael said, "My favorite part about engineering is definitely the people. I have loved being a part of the ASCE Board, as well as the ASCE Foundation. I enjoy going to events with other civil engineers, and learning about the profession, and not just in a technical sense." In his retirement, Michael plans to stay involved with the Civil Engineering Departments at both Rutgers and Northwestern, and in the loop with everything happening at ASCE.



The Morris and Donald Goodkind Bridges.

OVER FAMILY

The Over family boasts of leadership within the civil engineering profession, including the 2014 ASCE President.

Robert S. Over, P.E. became a professional engineer by eminence in 1947, and began the tradition of engineering service within the Over family. Early in his career, Robert worked at the Pennsylvania Department of Highways, before moving to New Enterprise Stone and Lime Company. As the Chief Engineer and Chief Estimator, Robert was responsible for all construction projects and project estimating for this Central Pennsylvania-based heavy highway and bridge contractor and did not retire until he was 78 years old. He also was active with ARBA (now, ARTBA). His two sons, R. Stanton Over, P.E., F.ASCE, and John H. Over, P.E., M.ASCE, found that they, too, had an interest for civil engineering, as well as a passion for the profession.

Robert's eldest son, Stanton, obtained both his B.S. and M.S. in Civil Engineering from Carnegie Mellon University in 1957, and 1963, respectively. Stanton worked as the President of a medium-sized consulting firm, EADS, but spent a considerable amount of time perfecting his engineering knowledge through conference attendance. Stanton did not travel "light," but instead brought along his whole family on the trips, igniting the passion for civil engineering in his two of his sons, Randy and Thomas. Stanton also participated in ARTBA as the Chairman of the Highways Committee and Member of the Planning and Design Division. Other societies he was active in included American Council of Engineering Companies (ACEC), where he served as the Chairman of the Transportation and Public Relations Committee and as a National Director; The Pennsylvania Society of Professional Engineers (PSPE) where he served as a State Director and before retirement, served as Associate Executive Director of the National Society of Professional Engineers (NSPE).



Robert S. Over, P.E. at the Pennsylvania Department of Transportation in 1940.



Stanton and Randy in Montreal

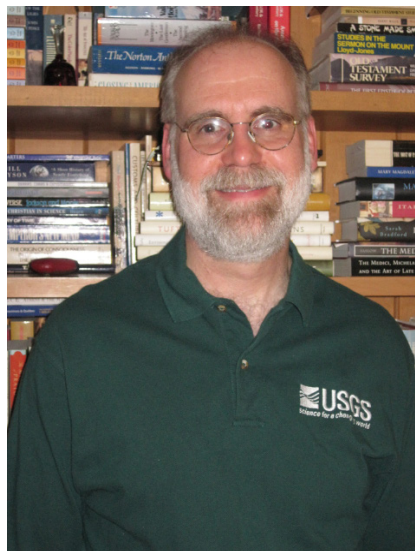
Next in line came Stanton's first son, ASCE's current President-Elect, Randall S. "Randy" Over, P.E., F.ASCE. Randy knew from a young age that he was interested in all things civil engineering. He fondly recalled memories of his childhood, saying, "I remember one time watching and smelling the asphalt being paved at my father's house, and I just loved it." As a child, Randy frequented his father's office, and recalled the highway building craze of the 1960's and 1970's. He knew this was a career he was interested in, but wasn't quite sure where his niche would be. After dipping his toes into architecture, he made a firm switch to civil engineering. Randy jokes, "I refer to those years as 'archi-torture.'"

After graduating from the Ohio State University in 1983 with a B.S. in Civil Engineering, Randy started at a small consulting firm, before he moved onto a medium-sized consulting firm, now known as Arcadis. In 1991, he moved again to work as the City Engineer and then the Safety-Service Director for the City of North Ridgeville, Ohio.

Three years later, Randy became the Ohio Department of Transportation Cleveland District Construction Engineer, which he still serves as today. Randy's wife and children also have an aptitude for both math and science. His wife, Ann, works as a Division Chief at NASA Glenn Research Center, and similarly, his daughter, Sarah, received her B.S. and M.S. in Aerospace Engineering. Sarah is now in the process of earning her Ph.D. in Nuclear Engineering. Randy and Ann's son, Ryan, has a B.S. in Biochemistry, and is pursuing his Ph.D. in Biology, and his youngest daughter, Molly, is still in high school.

Randy's brother, Thomas M. Over, P.E., M.ASCE, gained an interest for hydrology while enrolled at M.I.T. Finishing with his B.S. in Civil Engineering in 1983, he continued onto Stanford for his Master's degree in Water Resources Engineering. Thomas spent time as an Associate Engineer at Nolte and Associates in San Jose for four years, but moved to study at the University of Colorado, Boulder. In 1995, Thomas graduated with his Ph.D. in Civil Engineering, and went on to teach at Texas A&M University as an Assistant Professor. Currently, Thomas works at the United States Geological Survey as a Hydrologist in Urbana-Champaign. He is involved in a number of professional organizations, including the American Geophysical Union, the American Water Resources Association, and the American Society for Engineering Education.

Looking back at his family's contributions to civil engineering, and their leadership within the profession, Randy commented, "If you benefit from a profession, you have a duty to give back for those who will come after you. I now have the ability and opportunity to serve as ASCE President, and I would feel guilty not to." Randy hopes that the future of civil engineering becomes much broader; "We need to embrace Civil Engineers taking on different career paths. Those working on infrastructure and environmental policy should be embraced as civil engineers, as much as those who build the tallest buildings."



Thomas M. Over, P.E., M.ASCE



John H. Over, P.E., M.ASCE