

CH2MHILL® ALUMNI NEWSLETTER

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Publisher's Note

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Greetings everyone,

I'm glad 2020 is over and the outlook is much more encouraging for 2021! The COVID-19 vaccine is now being distributed across the country with more coming and hopefully better distribution plans to help meet the needs. I hope you and your families are coping well and staying healthy.

So here's some good news. Our postponed Atlanta Reunion is now scheduled for October 13 – 16, 2021, and all hands are on board. Check Bob Chapman's article for the updated plans. Happily, everyone who previously registered had their reservations rolled over to the new date, with only a few exceptions.

The big CHAA story is the new officers and directors joining the board. Don't miss Rick Luebbers' new "President's Corner" and exciting message and plans for the coming year. The CHAA website continues its expansion, and we appreciate the gracious reviews from our ever-increasing membership. We hope our "Members Corner" section will encourage more membership growth, more perks, and participation.

Another highlight is our success in reaching the year-end goal of our Legacy Outreach Program. With lots of help from alumni across the country (and many legacy staff still working for Jacobs) we've added over 600+ names to our master list. A number of legacy staff who retired as part of the Jacobs Voluntary Retirement Program (VRP) (similar to what CH2M did with its VRP in 2014) shared their farewell messages and are part of this newsletter and more will be shared in future issues as we track down their contact information. We always seek and appreciate getting leads from our readers and legacy staff regarding folks retiring from Jacobs. Please keep it up and remember that no story is too big or small for our newsletter (that's why we have the "Tidbits" section). Same for feedback, suggestions, kudos and concerns (if any). Our goal is to celebrate everyone's career and life as a member of the CH2M family to the extent we can.

Thanks also to those of you who let us know of the loss of any dear friends, colleagues, and spouses. It's a sad but important part of our newsletter. We couldn't do this without your help! I'll end with a special thanks to our entire CHAA team for their efforts, especially our superb newsletter production duo: Angie and Sarah; Don, our CHAA treasurer, mailing list guru and helper for getting new members on board; and Dan, our webmaster extraordinaire who we so appreciate his patience, expertise and help! Best wishes to all our readers for healthy and safe 2021!

Take care,

Gordon

(gkoblitz1@outlook.com)

Retirees/Alumni News

FINDING NEW PROJECTS

By Tim Graves (timsuziegraves@gmail.com)

My 30-year career at CH2M began on the Lowry Landfill Superfund site project outside Denver and ended on the Mare Island redevelopment project north of the Bay Area. In between, and while working in the Denver, Albuquerque, Phoenix, and Portland offices, I worked on a variety of fascinating projects (one notable example: Honeywell 34th Street) and served for 8 years as the Environmental Services Western Region's staffing manager and operations manager. While educated as a hydrogeologist, it didn't take me long after starting my CH2M tenure to recognize that my skills weren't on the technical side but rather on the project management/operations side, and that's what I did for most of my last 20 years.

The Lowry Landfill project was so high-profile that one day Robert Redford came out to visit. Even though I'd been working 13-hour days on the site for many months, and never missed a day in the field, on that day I had to be in the Denver office for a project meeting with our outside technical experts. One of our experts was Allan Freeze (co-author of a well-known hydrology textbook on groundwater). So, while I missed the chance to meet one celebrity that day, I did meet another.

Most of my last 9 years was helping the firm try to close out the Mare Island project. When that project closed out in late 2017, I decided to retire rather than find another project that would have required me to travel frequently. Between the Honeywell 34th Street project, my staffing and operations manager roles, and Mare Island, I feel like I spent as much time working with lawyers during my last 20 years as I did with technical people.

In early 2020, Suzie (my wife of 43 years) and I bought a new house right next door to our daughter, son-in-law, and grandsons. With the pandemic, our daughter Alex (former CH2M, now working for a high-tech startup) and son-in-law Eric (current CH2M/Jacobs Revit 3D designer) are fortunate to be able to work full time from their house so Suzie and I watch our 6-year old grandson Henry and 7-month old grandson Everett during the workdays. My task is to help Henry facilitate online kindergarten.



Tim and Suzie in Elkhorn ghost town, Montana.



Tim with grandsons Henry and Everett.

We moved to the suburbs after 8 years in an almost 100-year-old bungalow in inner Portland, and I absolutely do not miss the challenges of living in an old house. One of the advantages of a new house with only a small side yard is the small amount of maintenance needed. Suzie once said that I am the world's least-mechanical man, and she probably wasn't far from wrong on that. Nevertheless, and after watching a bunch of YouTube "how to" videos, I recently built a ground level cedar deck. My current project is building large cedar planters to contain bamboo for a privacy screen.

Like all reading this, I always felt extremely fortunate to have been able to work for a firm like CH2M, and mostly because of the outstanding people that gravitated to it. While I enjoy being retired, I do miss old friends. My email is timsuziegraves@gmail.com. Drop me a note sometime.

FROM WATER TREATMENT PLANTS TO ROAD TRIPS

By Warren Jacobs (warp.eng@gmail.com)

I joined Gore & Storrie Consulting Engineers (G&S) in Toronto, 6 years before CH2M established its first office in Canada. My first assignment was laying out pumps and piping for a wastewater treatment plant (WWTP) primary settling tank gallery. Six months into employment, I got a tap on the shoulder, literally; being “voluntold” for a posting as the lone resident engineer at a greenfield water treatment plant (WTP) and reservoir for the small remote whistle stop of Fauquier in northern Ontario. I was single at the time so I accepted. The butterflies set in that night; I had absolutely no prior field experience. However, relief came the next day at work in the form of 50 photocopied pages of a variety of disciplines – sort of a predecessor of “Resident Engineer for Dummies.” Fast forward – this firsthand field experience would help me over my design career. When G&S agreed to merge with CH2M in 1995, I began designing projects for Canada and the US, while training of design staff on the use of process and instrumentation diagrams.



Warren and wife Karen at a CH2M dinner dance.

Looking back on the simpler life of the early 1970s, there were no fax, computers, or cell phones. For example, for the Fauquier project, I needed a boat to survey the installed location of the raw water intake structure. The nearest boat rental store was far away. To save some expense, since I already had the requisite trailer hitch, I offered a local resident to rent his boat for a case of beer. Not a problem! Later, when submitting my expense claim, it clearly showed “boat rental” complete with attached cash register receipt from the beer store. Reimbursement came through successfully!



Warren and Karen on Race to the Sun, Montana.

I retired in the fall of 2016; it was easy to remain at one firm for 44 years when surrounded by such talented and friendly people. I’ll forever cherish memories of interesting technical design projects, the fun job-site startup and commissioning, but more importantly the extra-curricular activities that staff participated in.

My wife Karen and I have two grown children living in the Toronto area and a third living in Seattle, Washington. We look forward to road trips on our motorcycles; we have been to the Rockies, San Antonio, East Coast, and Tennessee. When COVID-19 is behind us, we want to ride from Toronto to Seattle for a stay with our daughter and her family, and include a ride along US Route 101. Life is good!

[\(Click here for Warren’s full story on the CHAA website.\)](#)

WORKING TOGETHER AGAIN IN RETIREMENT

By Phil Smith (psmithw318@gmail.com); Mike Jury (mjury331@gmail.com)

Phil Smith and Mike Jury first started working together during 1983 in the Milwaukee office. Mike had transferred from Seattle to Milwaukee to work on the REM/FIT Superfund contract. At the time, the REM/FIT contract, which began in late 1982, was CH2M’s second biggest program (after the Milwaukee Water Pollution Abatement Program). In those days, hazardous waste management was a new to the firm and, to a large extent, the environmental consulting industry. Project work was being exported from Milwaukee to project teams all throughout CH2M. In those early years, many times we were writing the book on how to investigate and remediate these sites. It was an exciting time.



Phil Smith



Mike Jury

So that was more than a few years ago, but who's counting? These days, Phil and Mike are working together again – this time as volunteers for Citizens' Climate Lobby (<https://citizensclimatelobby.org>). Citizens' Climate Lobby (CCL) is a non-profit, nonpartisan, grassroots advocacy organization focused on national policies to address climate change. CCL's focus is on what it sees as the single most impactful solution to climate change – a national carbon fee and dividend. Phil and Mike were drawn to CCL by its mission and respectful approach (<https://citizensclimatelobby.org/about-ccl/values>).



CCL is a class organization with lots of great people – reminiscent of CH2M. CCL has over 600 local chapters and is adding more all the time. Volunteers are given guidance, resources, and a lot of leeway to pursue CCL's goal in the CCL way.

For several years, Phil and Mike have been among the 1,000+ CCL volunteers that have twice a year lobbied Congress in Washington, DC on the need for action on climate change and in support of CCL's preferred initial step – The Energy Innovation and Climate Dividend Act (EICDA). The EICDA, which had 86 co-sponsors in the 116th Congress, is a revenue-neutral carbon fee and dividend. It will be reintroduced in the new 117th Congress.

Although fewer now with COVID-19 precautions, Mike, joined at times by Phil, gives solutions-oriented climate change presentations to local organizations such as civics groups, churches, and businesses. Phil started a local CCL chapter in Waukesha, Wisconsin. Phil also gives presentations on the use of ENROADs, an online model that allows the relative effectiveness of climate solutions to be compared.

Phil and Mike encourage CH2M alumni that have a similar commitment to the environment to join CCL and take action to slow the overheating of our planet. Check out CCL's website. Don Marske did, and he joined. How about you?

AN UPDATE FROM HEATHER HARRIS

By Heather Harris (heathergharris@gmail.com)



Heather, Rob, and their daughter Sidney.

Hello! I am happy to connect with the CHAA crowd and join as a member! CH2M was my first job out of Texas A&M. I started with the Water Business Group in the Phoenix office in June 1999. I transferred to the Austin office in October 2000. I served as project manager, client account manager, and area manager in the subsequent 19 years in Austin. I left Jacobs in May 2019, and started my current job as Texas Director of Stormwater Practice for Carollo Engineers in Austin.

My spouse is Rob Cullwell, who is also a former CH2M employee. Rob started with the Environmental Business Group in San Antonio around 2001, transferred to the WBG after a couple of years, and then transferred to Austin (for me) in 2010. Rob currently serves as the Texas Infrastructure Practice Lead for Carollo Engineers, and he's worked with Carollo for 7 years. He had nothing to do with them recruiting me, I promise.

MIKE ANGLEA RECOGNIZED BY HABITAT FOR HUMANITY

(Provided by fellow Sisters resident Gordon Koblitz after seeing an article in the local newspaper)

Mike Anglea (dunedoo@bendbroadband.com)

Six volunteers are new members of Sisters Habitat for Humanity's 1,000 Hour Club for having volunteered more than 1,000 hours of service. Three volunteers also achieved the Lifetime Achievement Award for exceeding 4,000 hours of service, including Mike Anglea. Mike and the other volunteers were recognized in a ceremony on October 6.

A friend introduced Mike to Habitat for Humanity while he was living in Texas. In 2005, after moving to Sisters, Oregon, Mike began working with Sisters Habitat's construction crew. He has been a team lead and loves to teach college students who come to help build houses during the spring Collegiate Challenge each year, giving them solid construction skills.



Mike and his Lifetime Achievement Award for exceeding 4,000 hours of service to Habitat for Humanity. Photo courtesy of Jerry Baldock, Nugget News.

FAREWELL TO COMET NEOWISE

By Art Storbo (astorbo@nwlinc.com)

Comet Neowise has a return period of about 6,800 years. How far has human civilization come since Neowise last visited our inner solar system? How far will we humans evolve by the next revolution? In the past 50 years, humans have traveled to the moon. World human population has swelled to almost 8 billion. Our spacecraft have reached all the planets and the outer solar system. Our telescopes can reach out to the closest stars and their solar systems. We hope to visit Mars soon. But in the grandest of travel modes, we humans will never be able to leave our solar system.

Comet Neowise's next visit (year 8800) – what will planet Earth and humans look like when Comet Neowise returns the next time? Our great-grandchildren and all those in the next 250 generations who will follow us will not see Comet Neowise. Halley's Comet returns every 75 years and was last here in 1986. So some of today's younger population will see it in 2061. But will humans ever again see Comet Neowise?

We were busy with our astronomy hobby while Comet Neowise graced our skies last year. We were on comet watch for 4 nights, catching up on sleep in the daytime. Attached is a photo of Comet Neowise from southeastern Washington, taken by a friend of a friend, someone with much greater skills and equipment than I have at night photography. We held our Bellevue Astronomy Club star party (10:30 pm to 12:30 am), held in a local cemetery on a hilltop overlooking downtown Bellevue, the last time we'll see Comet Neowise (not because we're permanently relocating to the cemetery). But it did make me realize it really is the last time we'll see the comet, and maybe the last time human civilization will see it as well. ([Click here for Art's full "Farewell to Comet Neowise" article.](#)) ([Click here for full screen view of the Comet Neowise.](#)) (Photo)



Photo of Comet Neowise, courtesy of Bill Rodgers.

ENJOYING SEMI-RETIREMENT

By Kevan Sharp (ksharp0518@gmail.com)



Kevan, right, with his second-degree black belt in mixed martial arts.

Hi everyone, it is a great pleasure to reacquaint my associations with my friends and co-workers from CH2M days.

I was hired in 1984 by Dick Foster to work in the Seattle (Bellevue) office. I moved to Bellevue in late October from Utah, where the sun shines 340 to 350 days per year. It was quite a shock to move just as the rainy season began. My original intent was to work for 5 years and return to the university to teach, but the projects that I was assigned to were challenging and I was enjoying life at CH2M, so I never did hit that goal of returning.

I quickly gravitated to working with the Water Group under Gary Graham who taught me much about project management, design and construction of outfalls. In 1987 I was given the opportunity to work with Jim Goetz, another great mentor, for the West Point Wastewater Treatment Plant. I then transferred to Calgary, to be the regional business group manager (RBGM) for Transportation. The business unit was barely on wobbly legs and I helped get them firmly planted with CH2M processes to be successful and profitable. Being RBGM was my favorite job I had in my entire career. In 2009, I transferred back to corporate to be the quality and technology director for Transportation, working under Mike Kennedy and then Mark Lasswell. I loved working with Mark, and his creative genius – we made a good team. My final role was risk manager for Transportation until I left the firm

in 2012. Upon reflection, one of the best things I loved about CH2M was the opportunity to work with committed and engaged people across the company and the teams that formed so solve problems. I fondly look back at all the people and friends who influenced my career and in turn, all the people whom I mentored. I miss them all.

After leaving CH2M, I was hired by Terracon to help them bring business processes up to date. We revamped the project accounting system, built and delivered management training, and developed tools and processes for project managers. I left Terracon in mid-2019 after new management was put in place.

Currently, I am semi-retired, still open for opportunities, but mostly enjoying not working. I earned my second-degree black belt in mixed martial arts but had to quit due to health issues. My wife of 33 years and I raised two children and I now have three grandchildren. In my spare time, I am an investor which is my current job. My other new job is being a grandpa (papa) who can help at the drop of a hat. Along with family life, I have a large reef aquarium, which requires frequent maintenance with many species of coral and fish. I have learned a lot about reef keeping and water chemistry! I am also involved in the local unit of the Young Marines. The Young Marines is a program for youth ages 8-18 and teaches them principles of leadership, discipline, and teamwork. Currently I am the unit, battalion and regiment XO (Executive Officer). One of our major activities is community service, particularly to veterans. We help lead and implement the Wreaths Across America program at our local National Cemetery among many other things in our community. We also attend the annual celebration of Navajo Code Talker Day, held in Window Rock, Arizona, on August 14. I have attended this event every year since 2012. It is such an honor to associate and be affiliated with these World War II heroes and their families.



The Young Marines in attendance at Navajo Code Talker Day.

A SPECIAL “SLIDESHOW” – THE ALEXANDRIA, EGYPT, WASTEWATER PROJECT

By Ted Downen (ted.downen@gmail.com)



One of the many photos found in the Alexandria, Egypt gallery on SmugMug.

OK, here we go again with another one of “Ted’s Tales.” However, this one has significant historical significance, involving one of the first major overseas wastewater projects that CH2M initially undertook, the 15+ year effort in Alexandria, Egypt. So many of our alumni were involved, either by being on location as an expatriate, or working intermittently short term onsite, or by providing support from their home office (or all of these). Therefore, hopefully, this will bring back those challenging but also rewarding memories.

This reflection was prompted by what was recently found in one of Jim Howland’s storage boxes by our alumni staff. In that box were various 35mm slides regarding the Alexandria project as compiled by Fred Harem. The slides were a collection of Fred’s slides, plus mine, that formed the basis for a slideshow presentation about the project.

So, the question was, “what do we do with these slides”? Since my name was on quite a few of them, Gordon Koblitz contacted me and said, “I have a request and an idea..” Well, since I was involved for almost 8 years on that project, and managed to take numerous slides and prints myself, how could I not resist on finding a way to share Fred’s visual presentation.

For many years now, I’ve subscribed to a photo sharing site called “SmugMug.” Using this tool provides an opportunity to share Fred’s slideshow presentation. Gordon sent me the slides at the first of October and I dove into the project. It took some work, but after some diligent time of sorting out images and scanning the slides, the process was done and the photos were uploaded into a SmugMug gallery (link is provided below).

There were more slides than what was actually used for the presentation, so some of these have been uploaded, as well, into a separate segment in the gallery. As I worked more with the data, I set up two more supplemental segments; one that includes additional photos about the project, and, another that is the slideshow that I put together back in 1988. Note that prior to Fred’s slides, I’ve included his outline of the images and topics. And, at the end of his presentation, I’ve included various articles and information about the project. So, there’s a lot there to see and read.

Once you are in the gallery, there is an initial narrative that should be read prior to viewing the photos. To read that information, be sure to click on the “Read More” notice. That narrative provides a general, high level overview of the project plus some important notes about how to view the images, including how they are organized. Note that I’ve inserted some “dividers” to help separate the segments.

One important comment: Although I’ve attempted to provide the best and correct information I can, there could be some misrepresentations. If you should find anything amiss, please contact me so that I can make correction(s). Or, if you have questions, difficulty in accessing the gallery, or would like to add some additional photos, again, just contact me at ted.downen@gmail.com. [Here’s the link to Ted’s full article and slideshow.](#) Enjoy!

For additional information on Alexandria staffing over the years, click link and please share information of others who should be included: https://ch2mhillalumni.org/Documents/StaffListing_AlexandriaEgypt.pdf

(An important quick aside: For a very informative discussion and detailed insight regarding the Alexandria Project, please see the “International” section of Les Wierson’s Vignette in the CHAA archives for a most interesting behind the scenes report.) Click here: <https://ch2mhillalumni.org/alexandria-egypt/>

VARENNA WINERY'S PRIMITIVO 2019 VINTAGE BOTTLING

By Dave Evans (shootmyage72@gmail.com)

This summer a group of 25 or so residents in Varenna at Oakmont, where we live in Santa Rosa, prepared for bottling our 2019 Vintage. It was quite an operation done in four shifts, each incorporating nine individuals doing specific tasks. It looks like we will be again doing about 30 cases or 360 bottles of wine from the 2020 growing season. Carol from inside our apartment labeled the wine bottles using a jig made by our resident winemaker and I was on the production line preparing to cork a bottle.

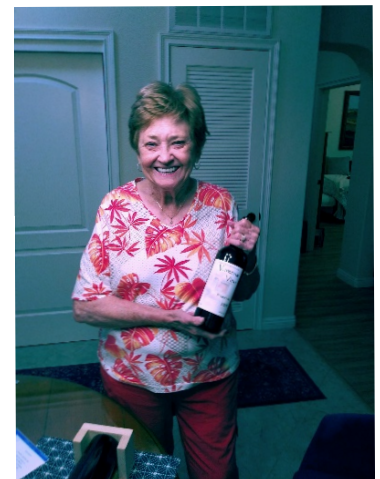
Sadly, the smoke from the 2020 fire season destroyed the entire crop as it did to many other vineyards. The picture here shows the largest view of today's nude vineyard, and the beginnings of hope for no fires and a great crop to be harvested in the fall of 2021. I am the one in the background along with the structure are where Carol and I live.



Large view of the vineyard, the beginning of a new season for growing.



Dave on the production line.



Carol labeling the wine bottles.

New Jacobs Retirees

35 YEARS OF SERVICE

Mark Bowen (ktml300e@cableone.net) (from Jacobs posting)



After a 35-year career with the firm, Mark Bowen has made the decision to retire.

I have had the privilege of working with Mark since the mid-90s. He is an incredible man of integrity and has a heart of gold for family, friends and coworkers. Mark has been an icon in the Boise Market place and I will miss his never-ending smile and can do attitude.

Mark has been a leader in our Boise office since 1985. Boise was the second CH2M office, established in 1950. The office has only had three office managers in the last 70 years, with Mark being the third. Mark received a B.S. in civil and environmental engineering from Utah State University in 1983 and his M.S. in structural engineering from Stanford University in 1984. He received his Professional Engineer license in 1988. Throughout his career, Mark has served as Chairman of the Board for the Boise Metro Chamber of Commerce in 2008 and 2009 and was appointed to the Governor's Transportation Funding Task Force in 2010. He also served on the Utah State College of Engineering Industrial Advisory Board from 2000 to 2017.

Today, Mark serves on the Boise State College of Engineering Industrial Advisory Board, Boise Watershed Exhibits Board, and the St. Luke's Children's Hospital Advisory Board.

Mark recently shared his "words of wisdom" after 35 years with the company ([click here to read his interview](#)). As the pandemic lightens, we will look to celebrate Mark's career with colleagues in early 2021. Please join me in thanking Mark for his dedicated service to our team. He will truly be missed. With appreciation, Brian Painley, Geographic Sales Manager.

Jacobs Voluntary Retirement Program Retirees

The following are farewell messages from our legacy staff (messages came from Jacobs website and other postings). More articles will follow as we track more VRP retirees down and get their emails and stories. Several of the following articles had photos to share but no email addresses. If you know them and have an email address, please share with fkoblitz1@outlook.com.

IT'S BEEN A BLAST!

By Peter Nicol (whiskeyharbour2000@gmail.com)



Every day for the last 40 plus years I have had the opportunity to work with the smartest, most innovative and passionate team of engineers, scientists, planners, architects, water and wastewater operators, finance, administrative, marketing and communication colleagues and focus on solving our clients most challenging and complex problems. I started my career following graduation from the University of Toronto and earning a Bachelor of Applied Science degree in geotechnical engineering. I finished my last exam on a Friday and started at Gore & Storrie Limited in Toronto on the following Monday.

That was the start of my journey and now after 40 plus years it is time to tackle some new and different adventures spending more time with my family, more time fishing and kayaking at the cottage and hopefully one day having the opportunity to travel once again. Thanks to my colleagues both past and present who mentored me, challenged me, and guided me throughout my career long journey of learning.

Flexibility and adaptability are two key traits that are necessary to work in our ever changing world and you need people around you who take the time, have the patience and care enough to partner with you to help you make the journey successfully and I have truly been blessed in that regard.

Congratulations to all of my fellow retirees! Your contributions to the success of Jacobs and our respective legacy organizations is an inspiration and your leadership and mentorship in transitioning to the current leadership has provided Jacobs with a platform that is the envy of our industry. Best wishes to all!

MY 8-COUPON P3 RIDE

By Scott Trusler (slthiker1@gmail.com)



Scott enjoying the beautiful scenery of Singapore.

Colleagues and co-workers surprised Scott Trusler with a retirement party on December 3 in Singapore, where he had been working on the Deep Tunnel Sewerage System and Changi Water Treatment Plant. Staff there set up a "Tribute to Scott" with many co-workers and friends recording video messages and sharing photos. With his retirement, Scott shared some thoughts on his work at CH2M:

"I came to CH2M way back - 37 1/2 years ago from as they say in small town USA. No computers, cell phones, and we were doing ink on mylar drawings - hard to imagine really. I wanted to design water treatment plants. I could not have foreseen the opportunities that unfolded. As I reflect back, it's been quite a ride and to have shared it with so many wonderful colleagues only adds to the journey."

People. It's the people that come to the front always and will be the longest lasting memories. People make everything happen. So many that I could not possibility list them all here. To have worked with all you talented and

dedicated people was energizing and inspirational – the can-do crew who always seemed to find a way to get 'r done! I appreciate you putting up with me all these years – your patience, your teaching, your support, your trust and faith, your feedback and debates, your laughter and your friendship.

Projects. Yes, there were some water treatment plants but so much more. From Alaska to Arizona, California to New York, Washington to Florida and small parts played on projects in Canada, UK, India/Kashmir, Middle-East, Australia.. and yes, Singapore. I could not have imagined.

We really do important work that improves, enables, and safeguards lives and the environment. Every project, big and small, was important. A little round well house, our first DBO, and the last 4 over years on a truly amazing undertaking - Tuas WRP - what good fortune.

Passion. A code word for so many things embodied in the people, the teams, that made these projects happen. Hard work. Dedication. Courage. Collaboration and inclusion. Solution invention. Bold at times yet always measured. I was lucky to know some of the firms founders and great leaders – they had passion and vision. I give credit to one leader, Ralph Peterson, for the words in my blog title that have stuck with me some 20 years now. As I recall, we had just gotten Ralph’s approval for the Cedar DBO final submission, a big deal for us back in 1999, and he said, “If nothing else, it will be an 8-coupon ride.” Back in the day, when you went to the fair or amusement park, you bought coupons at the entrance. You needed 8 coupons for the really big, scary, exciting rides, the ones that leave your head spinning and legs wobbling.



Scott on a “big hill” trek.

Looking back, my time with CH2M and then Jacobs has truly been an 8-coupon ride of People, Projects, and Passion – P3. Whether carrying on with Jacobs or chasing new endeavors, let’s all cherish all the people on our journey, take on and achieve challenging projects, and never lose our passion for whatever we are doing. I will keep my copy of the *Little Yellow Book* for ready reference as well – it will surely produce great memories and a smile. To the people of Jacobs, going forward you and the company will prosper by these words: Do Good Work. Make Some Money. Have Fun!

As for plans – well, I hope to travel in North America and abroad, maybe another trip or two to some “big hills,” and spend time with family, friends, colleagues. No plans to work (but never say never), but maybe some volunteer activities.

CONGRATULATING GARY NUSS AS HE RETIRES FROM JACOBS

(From JacobsConnect) (gsnuss@gmail.com)



After a career spanning almost four decades with CH2M/Jacobs and associated companies, Gary Nuss, Senior Vice President of Growth and Sales for the Americas Region of People and Places Solutions, retired on November 2, 2020. In his most recent role, Gary has provided critical leadership to our teams in winning and implementing client projects in the transit, rail, utilities, highway, aviation, water and wastewater and private development sectors – and leaves behind an incredible legacy and impact on our company.

After graduating from engineering at Oregon State University, Gary landed his dream job working with CH2M in Redding, California, giving him numerous challenging opportunities across the U.S., including a role as project manager for the Santa Rosa Geysers Recharge Project. In 2006 he joined Carter & Burgess, which then became part of Jacobs. After successfully completing his key role as Chief Operating Officer for Scottish Water Solutions (a \$1B public-private partnership between Jacobs and Scottish Water, based in Edinburgh), Gary returned to the U.S. to assume various progressive leadership roles, including VP for Central Region Operations, VP for Sales for North American Infrastructure, and then VP for Growth and Sales for the Asia Pacific Region. He is one of a few individuals who has worked in nearly every region of the globe.

Gary has had a unique ability to drive sales and growth while being highly sensitive to the operational needs of the business. It is no coincidence that Gary’s knowledge of both the Jacobs and CH2M businesses, and his subsequent leadership role in bringing the two organizations together has led to one of the most successful integrations the industry has seen. We wish him all the best as he embarks on his next big adventure.

IT HAS BEEN THE OPPORTUNITY OF A LIFETIME

By Scott Haskins



As I retire from this amazing company, it is with gratitude, humility, and love that I reflect on my treasured CH2M/Jacobs work experience. After spending the first part of my career in the public sector, mostly with the leading edge public utility at the City of Seattle, I stepped into the private sector world. Some said, “welcome to the dark side;” I said it was the “bright side,” where the opportunity existed to surround myself with talent and apply experience, leadership, values and leading practices to many geographies, clients and markets. And to have fun, meet inspiring team members, and to improve the quality, efficiency and functioning of many organizations and communities. I was attracted to the leadership, talent and reputation of this company; and the relationships, with sustained performance, have sustained and inspired me.

Teams. It’s all about the people, as they say; and I’ve been privileged to work with the finest, who are too numerous to mention. I treasured my leadership roles with the Water Business Group, Operations Management, Solutions & Technology, and Strategic Consulting—but more than that, my association with so many individuals and areas of expertise. Leaders Elisa Speranza, Steve Meininger, Peter Nicol, Nina Wollman, and their many team members across the US and world, are among my heroes. Many of these individuals are friends for life, and I’d do anything to support them.

Clients. The client lens has been the most important one for me. And, oh my gosh, there have been so many. As Scott Trusler once said, when I was a client working on Seattle’s Cedar project with Liz Kelly and others, the goal is to be a resource for each client for life. He lived that example and I tried in my consulting career to emulate that.

Changing the World, One Encounter/Project at a Time. Thanks for being an organization which strives to make a difference in the world, that sees the larger purpose, and for delivering on that promise. As one of the most travelled employees in our firm, largely living on the road for many years, and often with my colleague John Fortin, it has been my supreme privilege to serve you and so many clients. Hopefully we have also inspired improvement, change and progress, even among clients, their communities, leadership, staff and the industry too.

Those who know me would expect that I will be active after retiring from Jacobs, even if the pace is a bit slower. I expect some of our paths will cross, but know how grateful and in awe I am for the privilege to work with you and to call you a friend.

THANK YOU ALL FOR THE MEMORIES

By Bob Hayden

Thanks so very much to all my colleagues and friends for the memories, life lessons and personal sacrifices that so many have made in contributing to our team successes and my enjoyment with you since 2006. The numbers of mentors, former bosses and colleagues to be thanked are many. I owe a debt of gratitude to my wife and family for their forbearance and patience with extensive travels.

Andy Granatelli, late CEO with STP, is famous for saying: “When you are making a success of something, it’s not work. It’s a way of life. You enjoy yourself because you are making your contribution to the world.”

The joy has been magnified 10 times over with many great colleagues at CH2M and Jacobs trusting each other and joining together as teams with common goals to improve the lives of other people, most of whom we never meet. Even many of the 12-hour days still do not seem like work thanks to the energy and efforts of my colleagues, our focus and purpose. Below are examples of teamwork, focus on serving our clients, planning work and embracing diversity that I’ve been so privileged to be a part of and experience.

I remember the first day at the Denver office upon joining CH2M and asking to be excused at the midpoint of the orientation session to join a team meeting a prospective client. Our team spent several days understanding the client’s ongoing delivery dilemmas and developed a 14-point plan to assist. With a laser focus on the client needs, passion for teamwork across the program, and application of innovative first-of-their-kind solutions, we finished under budget, ahead of schedule and helped the client pick up the PMI Project of the Year Award.

On another occasion, we were told that the British client, French and American delivery companies would not be able to come together to successfully execute a complex and challenging London project. After all, the rationale went, the French and British have been annoying each other for 1,000 years. Our great team not only got the job done but also helped the client win a coveted global award. This is one of those challenging today and reinventing tomorrow stories with a lesson for us..... Be careful in listening to nay-sayers but also don’t be blindly optimistic about our future. Instead apply the Stockdale Paradox:

“Never confuse faith that you will prevail in the end—which you can never afford to lose—with the discipline to confront the most brutal facts of your current reality, whatever they might be.” – James Bond Stockdale, former Vietnam POW, Congressional Medal of Honor Winner, mentor and friend

Living diversity has been a fact for this hillbilly from North Arkansas when going from Baghdad, Bioka and Bontang to Yuzhno-Sakhalinsk and then adjusting in big cities such as New York, London, Moscow, Riyadh, Dubai, Abu Dhabi, Cairo, Manila, Lima, Sao Paulo and other places. There was one mid-career year when the summer was spent in upper Egypt, one of the hottest places of the planet, and the winter was in Siberia, one of the coldest. Experiences have been so rich with radically different backgrounds, beliefs and world views of team members. I thank all those who opened up assignments and who shared their lives. We would fill a huge ballroom if we all assembled together for a reunion.

- We can learn from everyone we meet no matter where we come from; the more diverse, the more we can learn
- We are all fundamentally equal as human beings with similar life aspirations
- Teams achieve high performance when we trust each other so we need to overcome barriers, false assumptions and stereotypes
- It is most helpful when we learn about and respect the culture of our work colleagues and host countries



I'm still feeling through what the next phase looks like. Firstly, looking forward to spending more time with my wife and family and then finishing more than a few home projects that kept getting pushed back! Also, there are ministry opportunities through our church and I'm working with regional leaders on public-private collaboration to help overcome impacts of the current pandemic.

As others have said, "There is no success without team effort." I'm going to miss the team members and individual friends who have greatly enriched my life experiences. Many thanks, Bob

THANK YOU

By Kevin Slack (kevinslack64@gmail.com)

For my entire professional career (31 years), I've been blessed with the good fortune to learn and grow with two truly great companies – CH2M and Jacobs. I started with CH2M in 1989, fresh out of college as a transportation engineer in the Chicago office. At the time, I couldn't have imagined where my career would lead me and the countless experiences, relationships and lifelong friendships that would be forged along the way.

I was extremely fortunate to have been a part of the transportation business that grew from a small U.S. practice within CH2M that we affectionately referred to as the "hood ornament on the company car," into a major industry leader with Jacobs. Our portfolio of projects and programs spanning the Aviation, Highways, Bridges, Ports & Maritime and Rail & Transit markets are truly best in class – as are our thousands of transportation professionals around the world. With great thanks to their tireless dedication, our global transportation team has not only consistently delivered critical infrastructure projects for our clients, they've also delivered results for our company.

Thank you for the memories and thank you to everyone who supported me, included me, taught me, challenged me, ignored me when I needed to be ignored, mentored/coached me, celebrated with me, tolerated me, shared life experiences with me, laughed with me (sometimes at me), encouraged me, saw things in me that I didn't see in myself, and reminded me every day how fortunate I was to work for a great company and in the company of great people.

In the near-term, I plan to spend quality time with family and friends and more time in the great outdoors. Retirement will be a big change, but I'm looking forward to this next phase of my life and tackling some new adventures that will keep me more than occupied. My wife Lee Anne and son Jared will make sure of that.

I wish you all the best and a look forward to keeping in touch as you continue to develop amazing solutions to the world's most complex challenges. Thanks, Kevin

THE NEXT CHAPTER

By Kelly Sobczak

On my very first day with CH2M 31 years ago, I met Jim Howland and received my personal *Little Yellow Book*. I didn't know then what a wonderful career path I was starting down. I have had an amazing career starting in Denver, Colorado, then relocating to Anchorage, Alaska, and finally Tampa, Florida. The friendships I have made over the years and across the company are by far the best part of the job and will stay with me always. My retirement plans include traveling, scuba diving, fishing, camping, photography, and more adventures.



Pre-Retiree/Alumni News

NOT OVER YET

By Don Holmes (Don.Holmes@jacobs.com)

My first “real” job was with Stone & Webster in Boston, where I worked for a couple of years contributing to environmental assessments for nuclear power stations. I was invited to move to Denver when they opened their first “western” office. That sounded like fun and gave me the opportunity to continue the work with the nukes, as well as with relicensing applications for some of the largest Columbia River hydro dams.

When it became clear that opportunities for an increasingly challenging career were not going to crop up for biologists in an old-line engineering firm, I began looking for alternative employers. A friend of mine had a friend at CH2M in Portland, I interviewed there (with Vic Kaczynski and Ken Durant), things clicked, and I moved there in 1978.

Looking for additional opportunities, I moved to Tampa in 1982, and then to San Juan, Puerto Rico in 1999, to take a CH2M contract position as compliance director of a consortium of the Puerto Rico Infrastructure Financing Agency and the Puerto Rico Aqueduct and Sewer Authority (PRASA); we moved back to Tampa in August 2001. My wife, Lee (*nee* Williams, who was the CH2M business development coordinator in Atlanta for 6 years and the IT coordinator for our CH2M joint venture in San Juan for 3 years), set us up for a sailing vacation in Maine in October 2001 on the oldest continuously commissioned vessel in the U.S. (the schooner *Stephen Tabor*, commissioned in 1871). We were already sailors, fell in love with coastal Maine, and moved to our current residence in Sedgwick in June 2002.

There was an interesting 18-month work/life interlude starting in June 2002, during which Lee would tell you she moved to Maine and I moved to Hong Kong. During that time, I was commuting between Hong Kong (for a 6-week stint), Sedgwick (long weekend), San Juan (1 week), Sedgwick (long weekend), and Hong Kong (6 weeks). Lee came over for the first 6 weeks, but then went home to set up housekeeping in our new abode. The crazy commuting ended when SARS broke out, luckily with the project coming to a successful conclusion at the very same time. With Hong Kong exactly half a world away from Puerto Rico, I found I could literally work 24 hours a day keeping up with everything that was going on. Luckily, my health and our marriage survived the ordeal.

Since 1999, most of my work has focused on managing the Puerto Rico Aqueduct and Sewer Authority (PRASA) Compliance Program, so I’m currently aligned with the Florida/Puerto Rico business unit. Total top line for the PRASA Compliance Program at this point is around \$200 million, for a total business development investment through the years of about \$45,000 – a testimony to the old CH2M network, great technical expertise AND teamwork, and the old Fred Eidsness motto: “Follow the money and work for your friends.”

It’s been a great run, and it’s not over yet!

GREETINGS FROM DENMARK

By Howard Thomas (howardpthomas@gmail.com)

Initially as part of the design team for the Trans-Alaska Oil Pipeline, I spent the early part of my career in Alaska, and joined CH2M in Anchorage in 2001. CH2M transferred me to British Columbia in 2006 to head geotechnical engineering on the signature Golden Ears Bridge project over the Fraser River. My wife Ingrid and I made good friends there as my role evolved into leading our geotechnical engineering practice across Canada.

I rejoined our US company as a teleworker assigned to Portland in 2014. Teleworking has suited me well, not only helping to reduce our carbon footprint but also avoiding the heavy traffic and commute time in and out of Portland. I can also add that it helped to prepare me for working under COVID-19 restrictions that Jacobs faced suddenly in early March of 2020.



Don and wife Lee enjoying a sailing trip.



Howard and Ingrid celebrating their 50th wedding anniversary.



Howard and Ingrid with family at Frederiksborg Castle in Hillerød, Denmark.

of Denmark where our younger daughter settled with her husband 9 years ago and where the virus seems to be better controlled. Ingrid and I made many cruises to faraway places before this year. These have afforded us an opportunity to see and experience new places.

Last year, we spent two enjoyable weeks in England, including a week in London with our younger daughter and her husband. London was where Ingrid and I had first met 52 years before, working together in Arup's engineering office there. It was great fun to get back to see how many things had changed but some had not.

Our son and his family still live in Anchorage. We invited family and friends to join us there in August 2019 to cruise down to Vancouver, British Columbia, aboard the Coral Princess to help us to celebrate our Golden Wedding Anniversary. It was a happy voyage with shore stops in several Alaska panhandle towns. We had a follow-up anniversary party here in Denmark this June for family and friends who couldn't make it to Alaska last year. It was soon after the Danish government started allowing gatherings of limited size. Because of the closed borders, vacation travel has been restricted this summer. However, we were able to make it to Norway with several family groups. Combining ferry, driving, flying, and cruising, our four-person group made it up to Tromsø in the Land of the Midnight Sun.

Ingrid and I hope all of you are managing to stay safe and healthy. We are enjoying living in Denmark for now. It is a small nation (a constitutional monarchy) with a cohesive cultural identity developed over the past 200 years. In some ways, it reminds me of CH2M's unique roots in Corvallis with people of principal and integrity like Jim Howland, author of the familiar *Little Yellow Book*.

Even though I was back in the US, much of my work continued to be in Canada. While based in Portland, I helped as a "pre-retiree" to get our fledgling self-funded CH2M HILL Alumni Association off the ground by serving on the Reunion Planning Committee and helping to build our mailing list. Our initial effort was a successful mini-reunion held in the Tri-Cities of Washington in 2015. The following year was a larger, successful regional event held in Vancouver, Washington.

I joined Jacobs with the merger in 2017 and by now am semi-retired. I was unable to attend the 2018 Reunion in Denver but did participate in planning for that event.

Ingrid and I love to travel. We are currently living in her home country

PROMOTION OF CHRISSY THOM TO SENIOR VICE PRESIDENT, GROWTH, STRATEGY AND SOLUTIONS



Jacobs has announced the promotion of Chrissy Thom to Senior Vice President, Growth, Strategy & Solutions for People & Places Solutions. This is the culmination of a robust selection process that resulted in a very strong pool of over 40 applicants who responded to an open expression of interest.

Our Growth, Strategy & Solutions (GSS) team helps our People & Places Solutions (P&PS) line of business strategically position for growth and is a key enabler, supporting the delivery of our strategic aims of optimizing our global, market, and digital connectivity.

In Chrissy's new role she will provide leadership across regions and business units to facilitate even greater connectivity, with oversight of the following functions:

- Program Management
- Business Management Systems, Quality, and Risk
- Project Delivery & Transformation
- Solutions & Technology
- Global Market Directors & Sales Council Oversight
- Strategic Plan Development

Chrissy has been with the company since 2005, joining Jacobs via the CH2M acquisition. Her most recent role has been as Vice President, Solutions & Technology (S&T) in P&PS. Chrissy is a driven, authentic leader and has demonstrated her global and cultural strengths since taking on the S&T role. Chrissy has experience grounded in all facets of our business – Operations, Sales, Project Delivery and Solutions & Technology. She is both an active and inclusive mentor and role model for many; and a strong communicator and connector, operating in a boundaryless way across the business.

CH2M HILL Alumni Association President's Corner

By Rick Luebbers (rluebber@hotmail.com)



Greetings Fellow CH2M HILL Alumni,

The CH2M HILL Alumni Association has progressed rapidly from a simple company-endorsed activity in 2017 to an official stand-alone, non-profit organization in 2019. In spite of the turmoil of 2020, the CHAA Board was formally increased to 13 members and great strides were made in organization, membership and planning.

These efforts were led by Gordon Koblitz as president through the formative years. During that time, he also managed to orchestrate and produce exceptional CH2M HILL Alumni newsletters. He, along with Don Marske, has carried much of the load in developing the new CHAA organization. We owe them both a debt of gratitude, along with those who have helped them.

With the expanded Board of Directors, we have the opportunity to spread the CHAA workload and engage the intuition and energy of all 13 members. As a brave first step, Gordon chose to step away from the President's role to concentrate on the newsletter and other membership issues. Susie Gaare, who has served as the Secretary since the inception of CHAA, has also chosen to step aside to focus on other activities. At the January 18, 2021 Annual Board Meeting, the officers for 2021 were approved as follows: President, Rick Luebbers; Vice President, Jim Schwing; Treasurer, Don Marske; Secretary, Terry Sheldon. In addition, Jerry Boyle and Susie Gaare rotated off the Board, with Mark Lasswell and Ted Downen welcomed as new Board members.

At the Annual Meeting, the Board adopted the new Strategic Plan for CHAA. The Plan captures much of what has been done to date and establishes a framework to move the CHAA forward. You may have noticed the newly adopted Vision Statement in the header for the Alumni Website. It, along with a Mission Statement and six primary goals, set the stage for upcoming activities by the Board and CHAA membership. The complete Strategic Plan may be found on the CHAA Alumni Website. Several committees are being formed to implement the Plan. We will be seeking CHAA members to join the committees to help with planned activities and to learn more about the workings of the CHAA organization. It will be a great stepping stone to future Board and officer positions. Stay tuned for more on this.

Finally, as the new year unfolds and the nation begins to open up again, we believe it is important that CHAA accomplishes a few key things this year. Over and above normal operations, the Board has selected three things to focus on in 2021: 1) The Alumni Reunion scheduled for Atlanta in October is absolutely the highest priority. It was postponed in 2020 due to the pandemic but is now fully rescheduled for October 2021. Please consider attending if not already signed up. 2) Reach out to the many small groups of CH2M HILL alumni who meet informally to stay in touch and retain friendships. While independent, they maintain the local spirit of the company we once all worked for. 3) Find and secure a long-term repository for the many historical CH2M HILL documents and materials. Discussions are underway with Oregon State University and Benton County Historical Museum and we hope for good news soon.

As you can see, the CH2M HILL Alumni Association is very active, with many exciting times ahead.

Be safe, stay well,
Rick Luebbers
CHAA President

CH2M HILL Alumni Association News

By Don Marske (donmarske@gmail.com)



Greetings all...

Aside from the pandemic keeping us separated from family and friends, it was a good year for the Association, thanks in large part to you!

As of January 20, we now have 390 paid members. That is up 27% from our year end 2019 list of 307 members, and it beat our goal of 360 for 2020. Thank you all who joined and renewed.

Our Master roster of alumni stands steady at 2,140. There has been some attrition, but thanks to Gordon's Legacy Outreach Program, we have been able to add many new members, including several who are now with Jacobs. Gordon's program is now complete, but we plan to continue to reach out to folks who forgot to renew, other legacy folks with

Jacobs, and those who have gone missing. For all of this we need your help. Please give us a holler if you hear of a colleague who is looking to join.

Financially, the Association ended the year with an income of \$13,100 against expenses of \$7,500, leaving a net balance of \$5,600. The favorable balance was due to the nice increase in membership and several generous donations while expenses were kept in check thanks to our very efficient webmaster, Dan Lagomarsino. For 2021 we are budgeting a membership of 410. With this and a few more generous donations, prospects for another financially sound year look good. 2021 dues will remain at \$20. 😊

The biggest challenge in meeting our financials goals is member renewal. Last year the challenge was getting everyone to register and select a payment option: PayPal, or offline/manual (cash). This year the process will be a lot more user friendly. When your subscription is about to expire, you will receive a reminder email on the anniversary of your 2020 payment. You can then just follow the directions in the email to renew or, heaven forbid, unsubscribe. If you are curious about the status of your subscription, or if you forgot your password, we have added a [MANAGE ACCOUNT](#) button to the Homepage where you can see your expiration date or reset your password.

Our refreshed website, <https://CH2MHILLalumni.org>, continues to get rave reviews. If you have not jumped on yet, and I have said this before, we think you will agree it is one-of-a-kind in our industry. Over the past year we have added many new alumni biographies, activities, and historical updates. We encourage you to browse now and then as we strive to keep it fresh.

If you have any questions about the Alumni Association membership, renewals, or its programs, please feel free to contact me at CH2MHILLaa@gmail.com.

Again, thank you to all who have joined, renewed, and donated in 2020.

Don Marske
CHAA Director, Treasurer

Special Announcements

2021 REUNION UPDATE

By Bob Chapman (bobchap43@gmail.com)



Atlanta's exciting Olympic Centennial Park, near the venue for our October 2021 Reunion.

The Reunion Planning Committee has rekindled planning activities in January toward our CH2M HILL Alumni Association reunion in Atlanta, October 14 – 16, 2021. We are pleased that there have been very few cancellations for activities and rooms at the Embassy Suites, as a result of the re-scheduling from 2020. This fact, coupled with a growing list of recent retirees, and an accelerating COVID-19 vaccination program for seniors, leads to optimism for a strong turnout!

The committee is reviewing the program, and checking in with the various presenters, and excursion and venue providers. Changes and refinements will be made in consideration of best protocols for health and safety, and to make the program even more interesting and relevant to the striking changes in our world.

Communications with the committee can be initiated by sending an email to CH2M HILLaa@gmail.com, or for those who have received an invitation via Greenvelope, by using the email link therein. We look forward to seeing many of you in October!

Note that your system may treat the invitation as spam, so be sure to check your junk mail folder if you are expecting an invitation or message regarding the Reunion.

Meet Your CH2M HILL Alumni Association Members!

We are especially pleased to introduce our continuing and new members of the CHAA as of January 20, 2021! We also like to include all the spouses of our deceased alumni who, by the way, receive their complimentary membership free of charge. If you know others who qualify, please let us know.

We hope you all will look over the list below, and if you DON'T see some of your good friends or colleagues, reach out to them and encourage them to join. If any of our readers haven't yet joined (or need to renew) and would like to support our goals and activities, please contact Don Marske at CH2M HILLaa@gmail.com or go to our CHAA website:

<https://CH2M HILLalumni.org/> and click on MEMBERSHIP.

Our CHAA Members:

Steve Aasheim	James Black	Bob (George) Davis	Dale Gabel	Don Heyer
Stephanie Abe	John Blakney	Stu Davis	JoLee Gardner	Tom Higgins
Jory Abrams	Jim Bloomquist	Hiran de Mel	John Gaston	Brad Hill
Christopher Adamo	Bill Blosser	Ranae Decker	David Gee	Jacque Hinman
Annette Adams	Arlen Borgen	Starr Dehn	Steve Gelman	Randy Hoffman
Karl Adams	Bob Bornheimer	Randy Denton	Jean Gibbs	Lawrence Holm
Ron Advani	Jane Bower	Drew Desher	Scott Gibbs	Don Holmes
Scott Ahlstrom	Clifford Bowers	Joy Dittberner	Michelle Girts	Wayne Holt
John Aho	Jerry Boyle	Michael Doleac	Richard Glanzman	Thomas Holz
Alan Aikens	Mike Bracken	Kathleen Doll	Jim Goetz	Grace Horning
Omur Akay	Rod Brauer	Jacqueline Dowds	Elizabeth Goldman	Richard Horning
Lisa Alliger	Mark Bricker	Bennett	Mabel Gong	Ann Hovland
John Almon	Gwendolyn Buchholz	Dan Dowell	Leila Goodwin	James Howey
Mark Alpert	John Burke	Ted Downen	Tom Gorman	George Howroyd
Melody Ambrose	Shella Buros	David Dunagan	Luigi Grande	Mons Hoyrup
Alan Amoth	Bill Byers	Dan Dupies	Tim Graves	Shirlene Humphrey
Donald Anderson	John Caldwell	Jerry Duppong	Frank Gray	Sam Iapalucci
Jerry Anderson	Don Calkins	Richard Dyne	Gary Gray	Meg Ibson
Sigurd Anderson	Aidhean Camson	Steve Ebe	Doug Griffes	Ken Iceman
Mike Anglea	Dale Cannon	John Echternach	Maurice Gunderson	William Ingles
Katherine Anhalt	Bob Card	Lee Eick	George Gunn	Bob Ironmonger
Katherine Arnett	Teri Carlson	Dave Ellison	Michael Guthrie	Apple Jacobs
Donna Atkinson	Amanda Carr	Richard Emanuel	Gary Guyll	Warren Jacobs
Bob Bailey	Bob Chapman	Dennis Erwin	Earl Hadfield	Dick Jacobson
Lisa Bailey	Yueh Chuang	Dona Eskelin	Roger Haines	Priya Jain
Jennifer Baldwin	Ron Cilensek	Dave Evans	Tom Haislip	Frank Jenes
James Bareinger	Brent Claiborn	Julianne Ewings	Marlin Hales	Doug Jenkins
Sheldon Barker	Kevin Clancy	Ben Fergus	Greg Hall	Kristen Jenkins
Bevin Beaudet	Leofwin Clark	Sarah Finelli	Carl Hamann	Bruce Johnson
Randall Beavers	Ken Clegg	Mike Fisher	Wayne Hanson	Paul Johnson
Richard Bedard	Virginia Connor	Bill Fleming	John Hanula	Richard Johnson
Bill Beddow	Sheila Coon	Murry Fleming	Ann Hargett	Bryan Jones
Gary Beech	Kent Cori	Jerry Foess	Kristine Hargreaves	Mary Jo Jordan
Ron Bell	Dick Corrigan	Robert Forbes	Peter Harr	Mike Jury
Patsy Benson	Charles Crandall	Rick Fornelli	Heather Harris	Ross Kaneko
Matthew Berg	Dick Crim	Bob Frank	Sarah Harter	Gary Kangas
Paul Berg	Wynnlee Crisp	Rich Frankenfield	June Ann Hassebroek	James C. Kapla
Tim Bevan	Terry Crockford	Kathy Freas	James Hawkey	Bhooshan Karnik
Julie Bielman	Mike Culpepper	Russ Freier	Kathleen Hawn	Nofal Kasrawi
Eros Bilyeu	Eric Cutbirth	Henry Friedman	John Hayes	Mike Kennedy
Carol Bissell	Glen Daigger	Paul Fujimoto	Chuck Hedel	Anne Kernkamp
Tom Bissonnette	Floyd Damron	Bob Fuller	Kent Heppe	Michele Kinaan
Brint Bixler	Debbie Danitz	Susie Gaere	Gary Hermann	Susan King

Pat Klampe	Betty Miller	Gregory	Max Schmiede	Sue Townsen
Joe Klaus	Judi Miller	Palmerheim	Jhan Schmitz	Jerry Tracy
Thomas Klin	Gary Milne	Bob Parent	Nancy Schultz	Robert Trebble
Gordon Koblit	Ed Minchew	John Parr	Mike Schweizer	Scott Trusler
Jim Kramer	Anthony Mitchell	Jim Parrish	Jim Schwing	Kelley Tyler
William Kreutzberger	Teny Mittal	Shirley Parsons	Tom Searle	Bud VanDerAa
Angie Kruse	Louis Mlcoch	Rajan Patel	John Sewell	Mary VanderLinden
Steve Lackey	Patrick Mohile	Mike Payne	Margie Sexsmith	Ronald Vaughn
Dan Lagomarsino	Ellen Moore	Wayne Pearson	Kevan Sharp	Valeria Vick
Ed Lance	Tsachka Morag	Sally Peek	Graham Sharpe	Leann Vigna
Judy Lasswell	Sheila Morales	Nancy Penn	Timothy Shea	Bobby Vilker
Mark Lasswell	Kathleen Moriarty	Tom Pennella	Terry Sheldon	Andy Vollmar
Bob Lawson	Bob Morrison	Betty D. Peterson	Ed Shorey	Jonathan Vorheis
Nancy Leathers	Michael Morrison	Bill Phillips	Ken Shump	Charla Vrchota
John Lee	Carol Moyer	Larry Pinson	Nikki Shute	Jim Walker
Patrick Lefebvre	Terry Moyer	Frank Pita	Tom Sigmund	Bill Wallace
Kurt Leininger	Sue Mozer	Sherril Pitkin	Glen Silbernagel	Robert Waller
Mark Lepkowski	Mary Murphy	Robert Plsek	Sue Silkworth	Jane Walter
Sherril Liebhauser	Michael Mynhier	Raeda Poirot	Thomas Simpkin	Dan Walters
Whitney Lindquist	Jim Nagel	Larry Powell	Udai Singh	Tom Walters
Troy Lister	Pam Nelson	Doris Powers	Ed Sloan	Gina Wammock
John Livingston	Vern Nelson	Dave Raby	Kent Smith	Steve Wanders
Rob Lorentz	Adele Neukomm	John Ramage	Philip Smith	Shirley Ward
Rick Luebbers	Mary Neuman	Nolan Randall	Randy Smith	Mike Warren
Ken Lundgren	James Newton	Harry Reeder	Sondra Smith	Shelby Weimer
Gene Lupia	Gino Nguyen	Glenn Rehberger	Kelly Sobczak	Jeffrey Weiner
Thomas MacBriar	Ken Nichols	Mary Reid	John Spitko	Daniel Wetstein
Jay Mackie	Valerie Nichols	Glenn Richter	Ron Staehlin	Debbie Whaley
Sally Madden	Gordon Nicholson	Tom Ridgik	Diane Sterling	Pamela Wheeler
Don Marske	Peter Nicol	Rick Riker	Daniel Stock	Stephanie Wicks
Kim Martin	Vickie Nissen	Dana Rippon	Arthur Storbo	Peter Wiedemann
Skip Martin	Stringfield	Barbara Robinson	Babs Suhr	Bob Willey
Craig Massie	Robert Norton	Steve Rockenstein	Ed Svastits	Lisa Williams
Collin Matheny	Gary Nuss	John Roderick	Gary Swanson	Ruth Wilson
Martin Mccarthy	Asbjorn Nysaether	Robert Rosain	LeRoy Taylor	Nick Winnike
Jessie McClelland	Gerry Ochs	Dean Rue	John Thatcher	Bill Winter
Regina Mcclintock	James O'Connor	Sally Ruggles	Hope Thayer	Tom Wolf
Claire McDonald	Linda O'Connor	Terry Ruhl	Howard Thomas	Marlene Wollmann
Bill McElroy	David Odom	Donald Russell	Jim Thompson	Bryant Wong
Brock McEwen	Brian O'Halloran	Vince Rybel	Paul Thornhill	Carol Woodward
Greg McIntyre	Mark Okey	Michael Sailor	Janice Thorpe	Jean Worth
Robert McKay	Don Olson	John Sams	Lori Thurmon	Linda Wright
Jim McKibben	Tony O'Neill	Dennis Sandretto	Mike Tilchin	Ron Wycoff
Jay McRae	Ron Ott	Eddilio Santarosa	Doyle Tinkey	Robert Yandt
Janice Meadows	Jimmy Otta	Robert Savage	Connie Toole	Ray Yep
Karen Mikowski	Bob Pailthorp	Howard Saxion	Ray Topping	Beverly Zeien
Bernie Miller	Willie Paiz	David Schertler	Carolyn Torkko	Julie Zimmerman

Hats Off to Our CHAA Donors!

In our January issue we offer our special thanks to our new 2020 members and current members who kindly went above and beyond their annual membership fee by contributing an extra amount to help us with our mission into the coming year, albeit still challenging! We wish to acknowledge all our donors, and we appreciate every gift given.

Listed below are our 2020 donors to date through January 20, 2021, at the different levels we established. This is voluntary, of course, and can be done anonymously, if desired. Please note that all members who have donated are acknowledged annually in the January newsletter. Donations will be accrued and **donors will be acknowledged in bold type and asterisk when a new level is attained at the Booster level and above.** Members who attain the “Sustainers” level and above will receive a lifetime membership and recognition in every issue as a small token of our appreciation.

A major portion of the donations were used to complete the upgrade our CHAA website (accessibility, content, security and enjoyment), continue our website maintenance, our outreach efforts for legacy colleagues, and help to promote local member groups across the country. Updates regarding these efforts will be included each newsletter. Again, thank you all for your generosity!!

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Well, we need to be optimistic and aim high for the long haul! 😊

Goodbye, Old Friends

TOM PETERS



After valiantly fighting several health issues, Tom Lindsay Peters of Laguna Beach, California, died Saturday, September 5, 2020. Born in 1951 in Sac City, Iowa, Tom was raised primarily in Palos Verdes, California. He attended UC/Santa Barbara graduating in 1973 with one of the first degrees granted in environmental planning and began a lifelong career with CH2M in Portland, Oregon.

In 1993, Tom transferred to Orange County where he met his wife, Joy. They married in 1997 and have resided in Laguna Beach since then. He ended his professional career as senior vice president in charge of the Western Region. He was an inspiration to those he worked with and mentored largely because his visionary leadership was tempered with compassion, laughter, and integrity.

While living in Portland, when still a young man, Tom developed renal failure and when his first transplant failed, he served on a committee that helped reform national organ transplant policy. After 10 years on dialysis, Tom received a new kidney, fondly named Sidney, which lasted an incredible 30 years, well beyond expectation.

Tom was known for his optimistic outlook, calm demeanor, and a warm and humorous presence. He credited his serene disposition to his 47-year meditation practice. He inspired others to live life to the fullest. Aware that he was on “borrowed time” and being an intrepid traveler, Tom retired at 56 to pursue this passion. He visited all 50 states, enjoyed scuba diving around the world with Joy, and visited over 40 countries. One of his most adventurous trips was to the Grand Kumbh Mela in India, sleeping in tents with naked yogis and was one of 22 million who took a purification dip in the Ganges River.

Tom fished every summer in Alaska with his brother and Joy, zip-lined at the Arenal Volcano on one of his many trips to Costa Rica and raced above the clouds in a beat-up rental car in the Ecuadorean Andes. More recently, though his health was declining, Tom climbed to the top of the highest temple in Angkor Wat and hiked out to the Iguazu Falls viewing platforms in Argentina and Brazil.

In addition to his passion for travel, Tom and Joy found time to support many Laguna Beach arts programs and charities, notably Laguna Dance Festival, Laguna Beach Seniors and Friendship Shelter.

Tom lit up a room with his exuberance and welcoming smile. He was generous in every aspect of his being and deeply loved by all who knew him. He is survived by his wife, Joy Dittberner, siblings Dr. Susan Peters, Steve Peters, and Deborah Pronk along with seven nieces and nephews.

Tom’s community of friends may give in his honor to the Thomas Lindsay Peters Memorial Fellowship Fund, a memorial endowment to provide support to graduate students at UC Santa Barbara’s Bren School of Environmental Science & Management, a program he helped shape. He passionately believed that training future environmentalists is vital to the survival of our planet.

DON DALY



Donald F. Daly of Lake Oswego passed away Thursday, October 15, 2020, at the age of 87. He was born January 10, 1933, in Morristown, New Jersey, to John and Sophie Daly. He grew up in Convent Station, New Jersey, and played bass in the band “The Skippers” in high school. He graduated from Stevens Institute of Technology in Hoboken, with a degree in mechanical engineering.

After working in New York City for several years, Don moved to Utah to work for Thiokol Chemical. He met his wife, Bennie Lausanne London, in Utah and they were married in 1963. The family lived in Colorado, the Bahamas, and California before settling in Oregon in 1978.

Don joined CH2M in 1978 as a project manager with responsibilities for overseeing numerous large industrial and fabrication projects with CH2M’s subsidiary, IDC. He also served as the managing director of TDC, a partnership formed by IDC with a large and

well-known construction firm, from 1995 through 1999. He served as IDC's Business Unit Manager-Pharmaceuticals from 1999 until retirement in 2001. In addition, Don developed a special business relationship with Intel Inc., and served as the client manager for all business contacts with Intel from 1990 through 1999. He retired from the firm in 2001.

Don loved to golf and go skiing, especially when he could go with his family. He found great joy in his family including his two golden retrievers, Maggie and Molly. He would often buy happy meals on the way home for his "girls." He was also a baseball fan. After his beloved Brooklyn Dodgers moved out of New York, he became a lifelong Yankees fan and could often be found "watching" a baseball game with his eyes closed on his favorite chair in front of the TV. One of his favorite places to be was his farm in Midway, Oregon, where he was often found puttering around his shop and was a gifted woodworker.

Don is survived by his wife, Bennie; sons, Steve (Dana), Dave, and Eric (Kelley); sister, Peggy Kidd; brother, Bob Daly; and seven grandchildren.

OSCAR (KRIS) BUROS



Dr. Oscar Krisen (Kris) Buros, 82, of Aurora, Colorado passed peacefully early Christmas morning, December 25, 2019, at the local Denver Hospice facility, due to complications from cancer. He was born March 1936 in White Plains, New York, to Francis and Jennie Buros.

Kris spent a year at Colorado Mines, which was followed by 4 years in the US Navy serving on minesweepers. At the time of discharge he held the rank of Petty Officer First Class. Properly inspired by his navy experience he returned to academia and completed his BS degree in civil engineering at Washington State University (WSU) in 1962. He worked for a few years on construction projects in the western US and then took a 3-year journey around the world covering about 80 countries and five continents.

He had many adventures including a ship wreck on the Ucauli River in Peru; descending the Amazon; hitch hiking from Algiers to Capetown (200 days) including crossing the Sahara Desert on a date truck; traveling across the USSR on the trans-Siberian railroad; and crossing Afghanistan from Pakistan to Iran via the Khyber Pass.

Returning home in 1968 he decided to return to graduate school. He obtained a fellowship from WSU and completed an MS in civil engineering in 1969. This was followed with a fellowship at the University of Florida to study for his doctorate in environmental engineering. His research was on an EPA-funded water reuse program on the island of St. Croix. He was employed by the firm BC&E for the project. He moved to St. Croix and worked on the reuse project plus many more water related projects in the islands and stayed for 5 years. On St. Croix he met his future wife, Sheila Fullam, who was teaching music at a local private school. The marriage lasted for 43 happy and adventurous years. Kris and Sheila moved to Gainesville, Florida, in 1976 where Kris continued working for BC&E, which was purchased by CH2M. In Gainesville Kris was the manager of CH2M's water resources group. He continued on projects in the Caribbean and other international work. In 1993 Kris was transferred to Denver to work for CH2M International Services. He worked mostly on projects in the Middle East and Eastern Europe. This included an 8-year assignment on a water program in Ukraine. Kris retired in 2003 from CH2M as a vice president. Three months later he was rehired to work part time for the next six years on projects mostly in the Middle East.

Once Kris retired from full time work they started traveling for fun. They did a number of trips to Europe including going back to Ukraine and Ireland where Sheila's grandfather was born. Then they expanded to doing cruises and had completed 16 of them at the time of Sheila's passing in 2017. Over the years Kris traveled to about 120 countries and all seven continents. He loved to travel and life was a big adventure for him. After retirement from full time work, he learned how to fly fish and volunteered with Trout Unlimited on various projects involving stream maintenance and water quality testing.

DAVID LEWIS



David Carl Lewis (shown here with his wife Nancy and daughter Sara), 72, died October 23, 2020. Growing up in Vero Beach, Florida, David was an active kid in many sports and academic clubs, but his true love was being in the ocean. David spent many idyllic hours roaming the beaches, swimming, and diving the reef. His ambition was a life on the seas. He followed his father, uncles, and brother to Mississippi State University. There he earned a BS degree in chemical engineering and an MS degree in civil engineering, environmental studies. He also met Nancy, who became his life partner for 48 years. David redirected his desire to be on the seas to the tasks of helping provide and conserve clean fresh water for the rest of us.

Throughout his career, David and Nancy traveled, explored, and learned. David's interests and curiosity were extensive. If he read about it, there would be a trip to see. It was important to him to experience and appreciate the life and culture around him wherever he found himself. Soon David and Nancy welcomed their children, Dave and then Sara, into their lives and adventures. This is when they both learned what true love really means. The kids became well-traveled, exploring and learning about the world with their dad.

David joined CH2M in February 1985 in Dallas, Texas, as one of the first engineers to work in the newly opened office. Gordon Koblitz, office manager, praised David's effort and success in building the business in the ensuing years by his marketing skills, project engineering and development of client relationships across the State. David helped acquire major projects with Dallas Water Utilities, Austin Water Utility, San Antonio Water System (SAWS), City of Abilene and smaller cities around the state.

David extended his reach with a nearly 4-year assignment to Auckland, New Zealand. His major success was Project Manukau at the Mangere Wastewater Treatment Plant in Auckland, which gave David and his family an adventure for a lifetime. He returned to Texas in 1998 where he became the Texas Business Development & Technology coordinator, helped on FEMA projects, Puerto Rico construction management projects followed by an engineering oversight assignment in India ending 2007. His engineering career spanned almost 35 years, the majority with CH2M. He was highly regarded by his colleagues for his marketing ability, engineering and technology skills and his fostering and nurturing of client relationships wherever he worked. At his retirement party in 2013, numerous accolades were given. Jim Parrish noted, "Thank you for making my entry into Texas easier than it otherwise would have been. I appreciate the time you spent with me to meet with clients and helping me develop an understanding of the Texas market and its drivers. Your insight and advice were invaluable." And Raj Bhattarai added, "David is my favorite engineer. He's a gem."

Despite several life threatening crisis events, and with the help of his family, David continued his travels after retirement, in a limited way, doing all he could when he could. He was grateful for and made the most of the time and opportunities he was given in life. He played well the hand he was dealt, with a kind and generous spirit. David's advice to his children-and others- was always, "Take the trip, do the thing, don't say no."

David's wife Nancy can be reached at nancylewi@gmail.com.

KARL CHRISTMAN



Karl Christman passed away unexpectedly on Sunday, November 8, 2020, at his home in Madison, Alabama. He was born on July 5, 1948, in Rochester New York, lived in Flower Mound, Texas, and Atlanta, Georgia, before retiring to Madison, Alabama, to be near his daughter and grandchildren.

Karl married his high school sweetheart, Marcia, on May 24, 1969, and celebrated 51 years of loving his best friend. Karl was a devoted father to his son Jason and daughter Bethany. He had a long and distinguished career in engineering technology and was most proud of his many accomplishments in 3D technology.

Karl had a long and distinguished career in engineering technology and was most proud of his many accomplishments in 3D technology. Karl was an early adopter and power user of advance design tools. Starting at CH2M's Rochester, New York, office in the early 1980s, during his 15+ year tenure with CH2M, Karl also worked from and helped build CH2M's Dallas and Atlanta offices. As a senior design technician Karl contributed to many successful projects for our water, transportation, and industrial clients, including benchmark clients such as Upper Occoquan Service Authority (UOSA) in Virginia, Grand Strand Water and Sewer Authority in South Carolina, Hoechst Celanese Corporation in North Carolina, Lockheed Martin in Georgia, among many others. During his career with CH2M, Karl was a leader in the firm's transition from "ink-on-mylar" overlay drafting to computer-aided design (CAD) and ultimately to the routine use of the 3D design technologies which have now become the standard of practice in the engineering and design industry.

In addition to his tenure with CH2M, and among other positions he held during his career, Karl was a CAD instructor at Georgia's Southern Polytech College of Engineering and Engineering Technology, now part of Kennesaw State University.

Many CH2M colleagues worked with Karl over the years and in the words of one senior member of the Atlanta team whose comments reflect a common sentiment "...I very much fondly remember my work with Karl. He worked and took a leadership role on every major project while in Atlanta. His technical skills were superlative as were his organizational skills. I most remember his sly sense of humor.... He will not be forgotten."

In addition to his professional career as a senior design technician and college instructor, Karl was an avid fisherman and hunter. His passion was the sea and he spent many hours sailing and cruising around the world. He will be deeply missed by his family, friends, and all who knew him.

Karl is survived by his wife Marcia, daughter Bethany Wing, his three grandchildren Connor Wing, Emily Wing, and Alex Wing, and his son-in-law Frank Wing. He is also survived by his brother and sister-in-law, David and Nanci Christman, brother-in-law and sister-in-law, Ralph and Rhonda Rossi, nieces, nephew, great nieces, great nephews, and cousins.

JAN MADISON



Jan Madison passed away on October 7, 2020, just 9 days after she and her husband Mark celebrated their 40th wedding anniversary at the Portland Rose Gardens where they were married. Jan battled breast cancer for 12 years but finally lost the battle when the cancer moved to her liver. She was at home with Mark, their three sons and daughters-in-law and her only granddaughter.

Jan and Mark have visited or lived in 39 countries together mostly with work related travel. Jan supported Mark in his work travel and usually traveled with him to make sure every trip had plenty of adventure mixed in. Jan and Mark climbed to the summit of a glacial covered mountain in New Zealand on their 39th wedding anniversary.

STEVE DEAUTREMONT



Born in Ashland, Oregon, Steven Charles DeAutremont passed at Porter Hospice in Centennial, Colorado, at the age of 74. The eldest son of Charles and Iva DeAutremont, Steve graduated from St. Francis High School in Eugene, Oregon. He earned a BS in applied mathematics in 1970 and an MBA in 1972, both from his beloved Oregon State University. He married his childhood sweetheart, Mary Lee Robertson, in 1968.

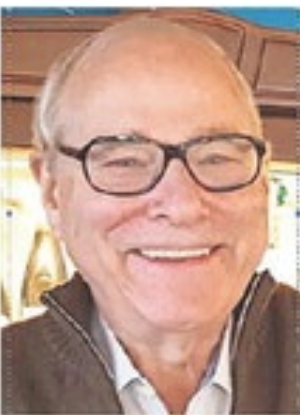
Steve was a highly accomplished athlete with a drive and focus most could only hope to achieve. While at OSU, he won two NCAA championships in the hammer throw event in 1969 and 1970, and he held the OSU record for the longest throw in competition for 17 years. Following his OSU career, he won the 1974 AAU hammer throw championship, he was a four-time member of the USA Track and Field team, and he served as a part time throwing coach at OSU, where he helped develop several All Americans. Steve qualified for the 1976 Olympic Games, but he was unable to compete due to illness. In 1992, he was inducted into the OSU Sports Hall of Fame.

Steve spent the majority of his professional career with CH2M in various financial and business management roles. His personal contributions, as well as the contributions of the many people he developed throughout his career, helped transform CH2M from a regional environmental engineering service provider into a renowned multi-national engineering organization. Steve and Mary Lee, along with their two children, Andrea and Kevin, moved from Corvallis to Denver, Colorado, in 1983. He focused on his job and family while continuing to explore his love of photography, music, and watching professional sports. With a lifelong dedication to fitness, he added a marathon, racquetball competitions, and long-distance biking to his accomplishments. He coached Kevin's basketball teams, and volunteered at Big Brothers, Big Sisters and St. Vincent De Paul.

Steve retired in 2010 and returned to his true passion, coaching. He volunteered his expertise at various local high schools and helped bring success to many young athletes. His biggest success was Lance Brooks, a highly accomplished discus thrower, whom he proudly coached to the 2012 London Olympics.

Steve is preceded in death by his parents, Charles and Iva, first wife, Mary Lee, and brother, Ricky. He is survived by his wife, Loralie DeAutremont, sisters, Renee Cannon, Donna Godell, and Vickie Tino, brother Dan DeAutremont, daughter, Andrea DeAutremont Jackson (Matt Jackson), son, Kevin DeAutremont (Jessica DeAutremont), grandchildren, Jacob and Jessica Jackson, and Jordan and Bryce DeAutremont.

RICHARD SCHWARTZ



Richard Schwartz, husband of CH2M colleague Marcy Schwartz, died in Portland on November 16, 2020, after a long battle with leukemia. He was 77. Richard, a longtime resident of Portland, was born, along with his twin sister Gayle, in the Bronx, New York, September 15, 1943. He grew up there and in Queens (and was accordingly a longtime Dodger fan, only recently a reluctant convert to the Yankees). He was educated at Stuyvesant High School, City College of New York, and the PhD program of the New School for Social Research, where he earned a master's degree in political science and economics. He met his wife of 51 years, Marcy Stern, in 1967, and they were married in 1969. Richard and Marcy embarked on a 3-month cross-country road trip with their dog and tent in 1974, ending up in Oregon's Willamette Valley. They fell in love with the state and decided to move there permanently. Richard and Marcy's first son, Noah, was born in 1976, and their second son, Gabriel, was born in 1979.

Richard became a certified public accountant, and then co-founded the accounting firm of Schwartz & Cutting with Nick Cutting in 1985. The firm had offices in Corvallis, Portland and Bend. In 1989, he co-founded Oregon Digital with Steve Jewel-Larsen, building it into one of the largest Hewlett-Packard distributors in the Northwest. Schwartz & Cutting added a wealth management and financial services division in 1996, when Richard and Marcy moved to Portland, and is known today as Spectrum Strategic Capital Management, where Richard was the managing partner until his death.

Richard and Marcy were patrons of the Portland arts, building a museum-quality collection of fine prints, paintings and sculptures including works by many leading Northwest artists. Their house, which has a dedicated, two-story gallery space, is toured by many visiting art groups and serves as a venue for Portland Art Museum fundraisers. Richard and Marcy were also longtime major donors to Portland Center Stage and Artists Repertory Theater, where they sponsored the production of many plays.

An avid sports fan, Richard was a longtime supporter of Oregon State University basketball and the Portland Trail Blazers. He was a wine maven and collector, and a lover of fine food and travel. He and Marcy, along with his sister-in-law and brother-in-law, built a family home in Umbria, Italy. Richard was also an avid reader and movie buff and was a devoted husband and brother, proud father and loving grandfather of three grandchildren.

Richard is survived by his wife, Marcy; sister, Gayle; his son, Noah Schwartz and Noah's wife, Lydie Maugard and their daughter, Juliette; his son, Gabriel and Gabriel's wife, Megan Trice and their daughter, Susannah and son, Harvey.

LARRY FARR



The North State lost a respected statesman, veteran and mentor to many with Wednesday's death of Shasta Lake City Council member Larry Farr. He was 84. Larry served as a City Councilman and Mayor for the City of Shasta Lake during its formation and its early years of development. He was double hatted for a portion of his tenure with Shasta Lake, being both a CH2M employee and a leader in public service. During this time, Shasta Lake evolved from a cluster of small unincorporated communities to a full-fledged city with comprehensive municipal utilities for water, wastewater, electric, and other services. Larry was reelected to the City Council several times, most recently just before his passing. He drew on his experience with CH2M to help steer orderly development of the City as it evolved.

As a water resources engineer for CH2M HILL served 10 years on the board for the Shasta Dam Area Public Utility District. Larry was a senior resource for the planning and design of large diameter water and wastewater pipelines. He was an employee of the firm for more than 40 years. He worked on major design projects in California, Washington, Virginia, Texas, Nevada, Colorado, and other locations throughout the U.S. His work encompassed water supply and reclaimed water use for irrigation, power generation, municipal supply, and other uses. He also designed some of the largest diameter sewers that were being done by the firm at that time.

Larry was also an avid golfer. He was one of the original members of the infamous CH2M HILL Redding COGO group (stands for Central Oregon Golf Outing) that made an annual trek to the Bend, Oregon, area to play some of the area's many outstanding golf courses. The group would rent housing in the area and spend the week golfing, barbecuing, playing poker, and enjoying a respite from the workplace. The COGO group has endured for several decades, with new participants gradually replacing some of the original members.

JIM SPITZER

Jim Spitzer died in June 2019. An initial announcement of his passing was provided in the July 2020 newsletter; as an update, Bob Forbes had these comments about Jim:

One more thing RE: July 2020 newsletter. I was saddened to learn of Jim Spitzer's passing. I'll say a few words about him since I knew him from the late 1980s through the late 1990s when we worked together on several projects and became friends. Jim was a fine instrumentation and control (I&C) engineer. We crossed paths initially in 1989 when he was a field engineer for the Turbitrol Company, and I was managing CH2M's services during construction of the Cross Creek wastewater reclamation facility in Fayetteville, North Carolina. I was impressed with his job dedication and likeable manner and passed his name on to our design team in Atlanta, where we hired him in 1990.

Lucky for CH2M HILL and me as the project manager, Jim continued to serve the Cross Creek project through its startup in 1992. A couple of years later, the Cross Creek project won EPA's National Operations award, which is partially a testament to Jim's willingness to help train the plant's staff on its controls systems. By 1994, Jim had been promoted to a line management position in our Atlanta office, which didn't really suit him well, so he decided to leave us and hang out his own shingle as Newport Engineering, where we hired him once again as a subconsultant on several projects I managed. But he soon tired of the accounting and management aspects of a sole proprietorship and went to work as an I&C engineer for CDM, where he stayed until his retirement in 2018. Several of my colleagues at CDM told me he was a prized asset to their design projects in his specialty of automation and controls. Jim was quiet and unassuming, with a quick wit and mean sense of humor!

IMPORTANT NOTE: Our only resource regarding the passing of any retiree, alumni colleagues or their spouses comes from our members or newsletter readers. Please forward their name, obituary or the family's contact information to CH2M_HILLaa@gmail.com or gkoblitz1@outlook.com so we may respond or contact them. Thank you!! Thanks to the many of you who shared information regarding the loss of our current cherished alumni shown above.

Travelogues

We've heard from many folks about their travels in the past, and thought we'd add this section to make it easy for you to highlight your special trips and photos. Of course, the COVID-19 pandemic changed most everyone's travel for 2020. Most folks we heard from have postponed their trips into 2021 and beyond. Please keep this spot in mind and send your future highlights to Angie Kruse (scarlet.study415@gmail.com) or to Gordon (gkoblitz1@outlook.com).

TRAVELING DURING COVID

By Dennis Sandretto (dasandretto@gmail.com)

My daughter Rachel and her three children, Levi, 9, Mikelle, 6, and Ronan, 4, were getting stir crazy because not only suffering through COVID-19, also suffered some damage during the tornado that destroyed a significant swath in Chattanooga. They barely made it to their shelter.

Rachel loves road trips with or without a cruise included. This year we had to give up a road trip to Washington and Oregon with a cruise to Alaska because of COVID-19. She decided to create a road trip that was semi-safe from getting the virus by having me pull my 20-foot-long toy hauler (trailer) and my 20-foot-long pickup truck to be used as both a bed, kitchen, and more importantly — restroom, all along the route. So whenever I had to buy gas, which was every 150 miles we would stop and they would use the toy hauler's restroom facilities. We left Tennessee on July 6 and returned July 22.

My rig — My daughter and youngest sleep on the top bunk, my wife on the bottom, my granddaughter on a foam pad on the floor, and my other grandson on a bed over his sister on a foam pad. I sleep in the truck.

It's certainly cozy — mosquitoes were only bad at one place — I just hate the whining noise. The next night I lathered up with bug dope. Then no bugs. Regarding temperature, it was hot at night, cold in the morning.

My daughter loves getting her children into junior ranger programs with the National Park Service. They have gone to over 50 national parks. So now we have added more.

Starting from Chattanooga:

Days 1-2: Lincoln birthplace, Kentucky; Indiana dunes National Park, Indiana; visit wife's aunt and uncle (94 and 97 years old), Wisconsin

Day 3: De Smet, South Dakota, Laura Ingalls Wilder homestead (Little House on the Prairie) — homestead memorabilia, grandkids made corn cob dolls, made rope, rode horses, pony cart rides, petted kittens

Day 4: Minute Man Missile Site and Badlands, South Dakota

Day 5: Badlands, South Dakota

Day 6: Custer State Park, South Dakota

Day 7: Custer State Park and Mt. Rushmore, South Dakota, meeting up with my son and his family of six from Colorado Springs for two days

Day 8: Mammoth Site, Hot Springs, South Dakota, and Wind Cave and Jewel Cave, Black Hills, South Dakota

Day 8: Little Big Horn Battlefield, Montana

Day 9: Dillon, Crystal Park to dig for crystals, Montana

Day 10: Deer Lodge, Grant Kohl's Ranch, Montana (Junior Rancher, cowboy history, working ranch demos - the old way)



Dennis Sandretto, wife, daughter Rachel, and grandkids with their truck and toy hauler.



Sleeping quarters for Dennis.



At Yellowstone National Park in Wyoming/Montana.

Day 11: Philipsburg, to mine sapphires, Butte - Berkeley Mine, Montana

Day 12: Drive to Gardiner, Montana

Day 13: Yellowstone, with one more day here, then move to West Yellowstone for 3 days.

Until Gardiner, RV parks had been about three quarters full. The small RV park in Gardiner was full. The KOA campground in Butte was super conscientious about disinfecting, with a spray bottle of disinfectant in each toilet/shower room. They did a deep clean every night. About half of the people in Yellowstone wore masks. The National Parks either limit people in visitors centers or close them. Information centers are moved outside, and social distancing is required. In Butte, the state mandated masks indoors the day before we left.

I would say the numbers of visitors were about 1/3 of normal at many of the popular places. We enjoyed all the places we went and learned a lot, with the grandchildren participating in the Junior Ranger programs. My granddaughter enjoyed the Ingalls homestead the most. My oldest grandson enjoyed Yellowstone, and my youngest enjoyed the special dig we did at the Mammoth site in South Dakota. I enjoyed the Badlands National Park and Yellowstone.

MISSING IN ACTION

The CHAA again seeks your help in connecting with some folks without current email addresses. Many times it just may be a change in their email address. We were successful with our last MIA search and found several folks who are now reconnected with us again. Thank you to the folks who helped us find them!! We hope this round will do the same.

With the recent Jacobs Voluntary Retirement Program (VRP), many legacy employees have retired, but we don't have their personal email or contact information. Hopefully you can help. They are:

Matt Alvarez	Mary Gross	Rhen Morris	Jim Thompson
Gwen Buchholtz	Scott Haskins	Renee Ryan	Terry Wheeler
Harry Dinihanian	Alan Highstreet	Kevin Slack	Ed Winkler
Dale Gabel	Fred Long	Kelly Sobczak	

It's equally critical to help us find any CH2M folks you know who leave Jacobs without being added to the Alumni mailing list. Our current Alumni outreach program will help too, but it's always going to be a work in progress. Others on our missing list include:

Jerry Aycock	Jerry Eggleston	Bill Missilin	Mike Stansbury
Bob Bergman	Chuck Kemper	Marvin Murry	Carol Uhouse
Carey Brand	Rudd Little		

Please respond to donmarske@gmail.com if you have any information. Thank you!!

Tidbits

Ted Downen writes:

Since my wife and I have been stuck at home over these past several months, we've had the opportunity to do some much needed sorting out around our house. One "adventure" was to convert our under-garage storage area into a social distance "cavern." We call it "Down-en The Cavern." This area is generally used to keep the lawn mowers and all of the necessities that are assigned to yard work. But, for the current circumstances, it has become a location of great importance.

The front door slides mostly open so it's somewhat outside, but out of the rain. Since it's almost totally concrete, we purchased a little camping propane fire bowl and placed it near the entrance that gives us some heat

during the winter months. We've included six chairs and some end tables. We have two fans to provide circulation and lined the floor with the latest "cardboard box" fashion to give it a warmer feel. Plus, we've added some string accent lights to give it a bit of ambiance, of course. However, the yard tools are still hanging on the walls and the color is the latest in "peeling patch." Here's a peek of this most exquisite make-shift room in our house.



Kurt Leininger writes:

I shared this with all of my distant friends to salute the 100th anniversary of the Negro Baseball leagues celebrated this summer. I loved their museum in Kansas City, which is worth a good couple hours. As well as history and famous players, they had small videos of games from the "small ball" days long ago. I bought a souvenir cap there a few years ago. The video is excellent: <https://www.mlb.com/video/negro-leagues-celebrate-100-years>.

I also salute the 100th anniversary of women' suffrage, another hallmark and long overdue event of the post-WWI era.

As much as I like watching baseball, I find strikeouts and home runs to be boring compared to a half dozen consecutive singles and doubles, an outfielder throwing out a base runner. a double play, or a "suicide" squeeze bunt, all of which were common in the early-to-mid 20th century.

I hope everyone is keeping well and enjoyed the ball games on TV, even with fake cheering and virtual crowds (which I find amusing). At least the Phillies still have their real "Phanatic" mascot making a fool of himself. We're both doing fine, enjoying our home projects and frequent grocery runs. Cheers, Kurt

Anne Kernkamp writes:

Our vacation home, located east of Zion National Park in Utah, backs up to a nature conservancy, which is home to a herd of bison. Bison, however, sometimes have their own idea of where they belong, and are not easily discouraged by a split rail fence. Here they are in the front yard between us and our car – never argue with a bison!



Brad Phelps writes:

The Portland office is downsizing the office from 7 floors to 2 floors. As I have been cleaning my office library, which included Bob Fuller’s remnants of projects and information (the Fuller Library of nearly 40 years with CH2M), I came across photos in the deep dark pockets of my office, this photo, which is sometime in the 1980s, was for a Bob Modrall look-alike contest. Left to right, Mike Kennedy, Bob Modrall, Gordon Merseeth, and Bob Fuller.



Bob Chapman and Don Marske both shared this ingenious idea:



TV tray for seniors – patent pending!

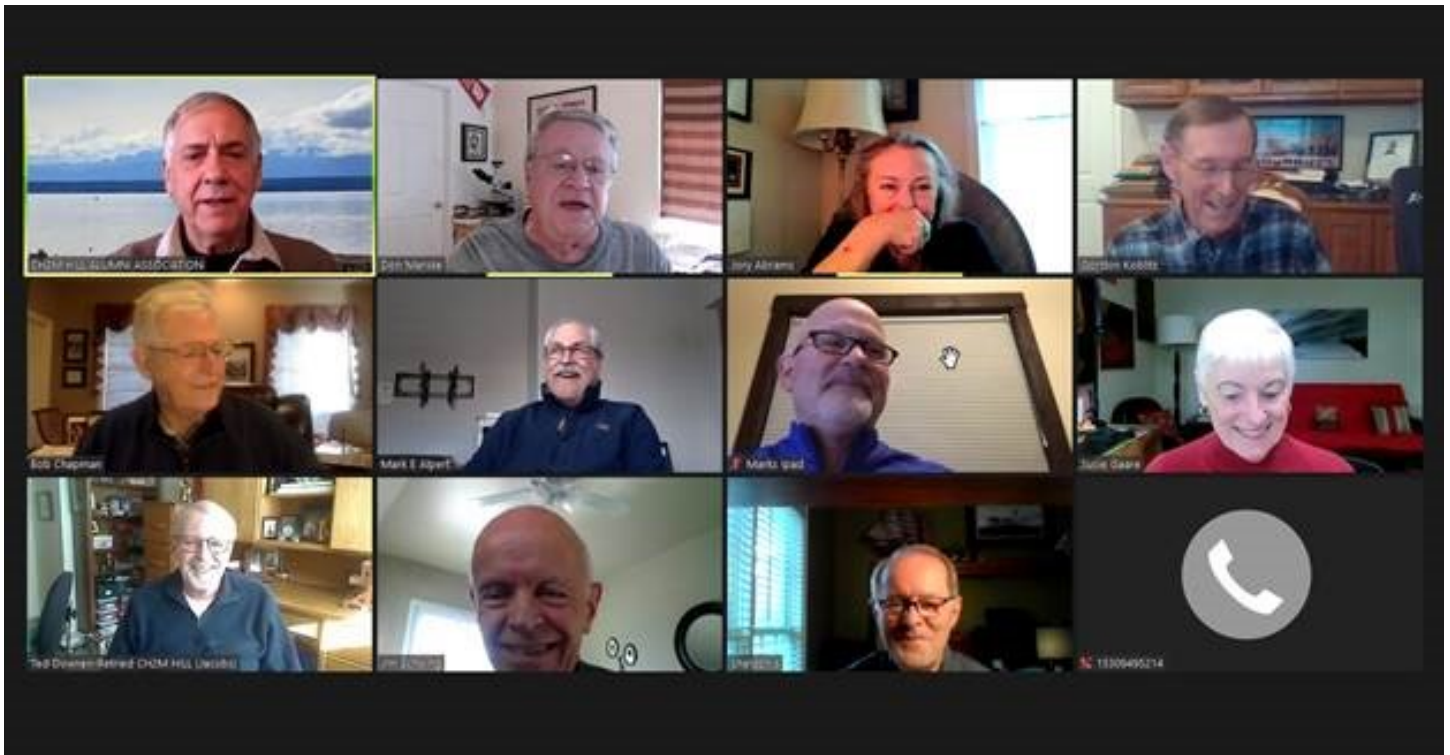
Gordon Koblitz shares an exchange he and Don Marske had with John Echternach:

“The photo from 2 years ago when John’s “second” career involved a great stint inside the replay booth for their league SOCON (affiliated with the SEC). COVID-19 disrupted last fall’s season, but his detailed explanation for the often maligned “replay” action in the football booth is well worth for our avid football fans to check out, especially with the Super Bowl coming up! [\(Click here for more on John’s story.\)](#)”



Gordon Koblitz writes:

Here's a look at CH2M HILL Alumni Association's Board of Directors first Zoom meeting on January 18, 2021. It was an eventful and productive meeting with two new directors, change in officers, and an in-depth discussion of the new CHAA Strategic Plan and implantation process led by President, Rick Luebbers. I'm smiling because he is in charge now. 😊



*Top row Left to right, top to bottom: Rick Luebbers, Don Marske, Jory Abrams, Gordon Koblitz
Bob Chapman, Mark Alpert, Mark Lasswell, Susie Gaare
Ted Downen, Jim Schwing, Terry Sheldon, Anne Kernkamp (by phone)
Missing: Jay McRae, Nancy Schultz*

Don Marske writes:

Meet another CHAA team member: Dan Lagomarsino, our CHAA webmaster extraordinaire! Our wonderful website wouldn't be here without his expertise, dedication and continuing support. Here are a few photos Dan shared of Baby Cruz and his family. The family picture was taken at Cruz's first birthday. Clearly, he is one happy healthy baby. Congratulations to you Dan and your lovely wife.



Feedback/Kudos

We love hearing from you! Thanks to all who have sent in their comments. If you have comments, ideas, suggestions, please send them to gkoblitz1@outlook.com. Here are a few recent comments:

June Ann Hassebroek writes:

Gordon and Don, keeping track of membership seems beyond me. However, I know for certain I want to support your CHAA, excellent creation. You each do bring back smiles of happy memories. The cards and emails and messages with wonderful stories about how Lyle inspired and is remembered warm our hearts. Blessings to you, your families, and CHAA staff.

Tom Pennella writes:

Don - thanks to you and Gordon for all your efforts on behalf of CH2M HILL Alumni Association. PS: my wife Katherine Anhalt is also a former CH2M employee and supported our donation to the Alumni Association.

Jerry Foess writes:

Once again the July 2020 newsletter brought back memories and nostalgia. Your and Gordon's efforts are much appreciated.

Bob Forbes writes:

Gordon, Don & Co., another great newsletter, thanks to you all! I'm saving my pennies to increase my donation for 2021!

Terry Crockford writes:

Thanks Don. My pleasure to keep the legacy of CH2M living on! Thanks to you and Gordon for championing the alumni association! I am so sorry to hear of my long-time friend Tom Peters passing. We lost a really good person. Take care!

Mike Tilchin writes:

Great to hear from you and very happy to now be a member of the CH2M HILL Alumni Association!

Tim Graves writes:

After paying my dues yesterday I spent a half hour or so navigating thru the Association's website and I am very impressed with it. Well done. I look forward to keeping in touch with old friends for years to come.

Dave Evans writes:

Kudos to you and your team in preparing this July Newsletter I am really enjoying it. Been well worth my reading time.

Max Schmiede writes:

Don, wonderful newsletter as always. Thanks for all the work you put into this. One of these days I may sit down and jot a few thoughts together to send in.

Jim Otta writes:

Gordon, great job by you and the team on the alumni website and newsletters! Cheers!

Gene Lupia writes:

Don, thanks for all your help getting me "back on track."

Art Storbo writes:

Thanks, Don, to you, Gordon and the others for creating CHAA. We couldn't live without it!

Bob and Maria Bornheimer write:

Don – Bob really appreciates receiving the newsletter in the mail so he can use his reader to read it. Thanks!

Greg McIntyre writes:

Don – I appreciate the work and effort from you and the rest of the of the Board to make the CHAA a reality. Thanks!

Julie Zimmerman writes:

Don - Many thanks to you and Gordon for taking on this task/mission. I enjoy reading about where friends are now, and what they are up to since leaving. Being a CH2M-er meant and still means a lot to me. Best company and best job ever!

Mike Jury writes:

Gordon and Don, thanks for all you're doing. Looking forward to seeing you in October.

Jacobs Pension Service Center News

Jacobs' Consolidated Pension Plan Service Center number is 888-482-6632 for assistance.

Jacobs' main number in Denver is 720-286-2000 for general information or directions for other needs.

Jacobs News

Some of the following selected stories tie in connections from work with previous CH2M clients. We encourage our readers to check the Jacobs company website for the latest project wins and related news and stock news:

<http://www.jacobs.com>.

JACOBS CREATING FIRST DIGITAL TWIN OF PUB'S CHANGI WATER RECLAMATION PLANT IN SINGAPORE

Jacobs has partnered with PUB, Singapore's National Water Agency, in a research and development project to develop and trial a whole plant simulation model for the Changi Water Reclamation Plant (CWRP). The model, a digital twin of the plant, will be the first application of its kind and combines real-time data from supervisory control and data acquisition (SCADA) historian with software simulation packages (Replica™ Digital Twin Platform) to integrate process, hydraulics, controls and advanced data analytics into a single, whole plant simulation capable of replicating plant operations and predicting future performance in real-time. The trial is expected to be completed by December 2020 and this research is supported by the National Research Foundation Singapore and PUB.

"In today's technology-driven world, digital representations of physical assets, processes and systems – or digital twins – provide unparalleled insight into ongoing plant operations and maintenance, supporting increased productivity, enhancing operational resilience and optimizing energy and chemical consumption," said Jacobs Vice President and Global Digital Market Director Dr. Raja Kadiyala. "PUB is at the forefront of utilizing this technology to improve its wastewater operations, allowing dynamic analysis of resource supply, demand, cost, risk and other factors throughout its systems to make resilient decisions."

Working closely with PUB and with support from National Research Foundation Singapore, Jacobs is designing the model with customized user interfaces to improve its functionality and maximize user experiences. Through a secured connection to the SCADA system, the model replicates CWRP's hydraulic, process, and control components with near real-time data feeds. The data are checked to enhance accuracy before being automatically fed into Replica™ for hydraulics and control simulation and Sumo© for process simulation of the wastewater treatment plant. The model continuously adjusts its calibrations within defined ranges to match the plant's observed performance via machine learning, ensuring simulations are relevant to real operations, without requiring intervention from staff. The model is also capable of creating customizable scenarios for operator training, thus facilitating knowledge transfer to new staff. The Replica™ whole plant simulation model technology is now being used by Jacobs on water applications globally.

CWRP is one of the world's largest and most advanced water reclamation plants designed by Jacobs. For more than 20 years, Jacobs has been delivering water and wastewater projects with PUB. Other notable projects include the award-winning Deep Tunnel Sewerage System, the iconic NEWater Plant and Visitor Centre, transforming the Kallang River at Bishan-Ang Mo Kio Park under the Active, Beautiful, Clean Waters (ABC Waters) program and Tuas Desalination Plant.

JACOBS SELECTED BY UNITED KINGDOM ATOMIC ENERGY AUTHORITY TO SUPPORT NUCLEAR FUSION RESEARCH

Jacobs was selected by the United Kingdom Atomic Energy Authority (UKAEA) to support research into nuclear fusion and related technologies. Under the Engineering, Design and Build Framework for Electrical Assemblies, Jacobs will support UKAEA's research and development work in the Remote Applications in Challenging Environments (RACE) facility at Culham Science Centre in Oxfordshire, England.

UKAEA is working to turn the process that powers the sun into carbon-free, safe and abundant electricity for a cleaner planet. Replicating the nuclear reaction that powers the sun could provide low-carbon electricity for millennia to come.



Work will include engineering design and installation of control panels, safety interlock panels, and wiring looms for a control cubicle to support the testing of a new range of actuators being developed by UKAEA. Jacobs' teams will design and build assemblies at the company's manufacturing, fabrication and welding facility in Barton, Lincolnshire, U.K., with final commissioning and handover at the client's site.

Jacobs was also awarded a contract under the UKAEA's Engineering Design Services Framework to provide technical and specialist nuclear services across a broad portfolio of fusion-related programs.

"We're combining our extensive experience of designing components for nuclear fusion research with our technical capability to turn those designs into the finished article, leveraging our in-house manufacturing facilities," said Jacobs Critical Mission Solutions International Senior Vice President Clive White. "This strong linkage between design and project execution improves project outcomes for our clients."

UKAEA Head of Procurement Paula Barham said: "These frameworks bring exciting opportunities for UKAEA to work collaboratively with the supply chain and maximize the potential value within those relationships. This is vital to UKAEA succeeding and positioning the U.K. as a leader in sustainable nuclear energy."

JACOBS SUPPORTS NASA'S MARS PERSEVERANCE ROVER MISSION



Jacobs and NASA's Jet Propulsion Laboratory recently built a new calibration device for the Mars Perseverance Rover which will seek signs of past microbial life and collect rock and soil samples. Launched July 30, 2020, NASA's Mars Perseverance Rover will travel over a seven-month period to the red planet. Once it lands, the rover will use several analytical science instruments to search for signs that there once was life on Mars.

One of the devices called the Scanning Habitable Environments with Ramen & Luminescence for Organics and Chemicals, or SHERLOC, will be used to detect chemicals on the Martian surface that are

linked to the possible existence of ancient life. The Science team at Jacobs working in the Astromaterials Research and Exploration Division at NASA Johnson Space Center built a new calibration device to check SHERLOC's function and properly tune it for use on the surface of Mars and throughout the duration of the Mars 2020 mission.

"NASA's Mars Perseverance Rover is equipped with sophisticated scientific instruments to aid in the search for signs of past life on Mars," said Jacobs Critical Mission Solutions Senior Vice President Steve Arnette. "The calibration device is another example of Jacobs' longstanding partnership with NASA in delivering innovative technologies that lead to scientific discoveries."

The calibration device is mounted on the front of the rover so that researchers can check SHERLOC's analytical instrumentation's accuracy by directing it to scan the baseline materials on the calibration target. The researchers will know in advance what the readings on those materials should be when SHERLOC is working correctly. If the actual readings are off, they can make adjustments to SHERLOC to get it set properly or know to compensate for the errors when they analyze the data later.

"The rover's scientific instruments go through all sorts of harsh conditions from the time they leave the lab until they arrive on the surface of Mars," said Jacobs chief scientist Trevor Graff. "SHERLOC needed a way to make sure it still operates as expected once it's on the surface and throughout the duration of the mission."

The rover has a piece of Martian meteorite on board as well, which was discovered on Earth in 1999, that it will return to the surface of the red planet for further scientific studies. Researchers plan to closely watch the meteorite sample to see how the Martian environment alters it over time, which will help them understand the chemical interactions between the planet's surface and its atmosphere.

JACOBS SELECTED BY US AIR FORCE FOR OPERATIONS, MAINTENANCE AND SUSTAINMENT OF CRITICAL MISSION SYSTEMS

Jacobs was selected by the Air Force Life Cycle Management Center's Strategic Warning & Surveillance Systems Division for Operations, Maintenance and Sustainment (OM&S) of critical mission systems for the North American Aerospace Defense Command (NORAD) Cheyenne Mountain Complex (NMC). The contract, known as the Integrated Tactical Warning/Attack Assessment (ITW/AA) and Space Support Contract II (NISSC II) went into effect June 25, 2020, and has a maximum value to Jacobs of \$455M over a six-year period of performance.

Jacobs will support the classified communications and processing for Command and Control (C2) capability and legacy space C2 systems at Cheyenne Mountain Air Force Station (CMAFS) and Peterson Air Force Base, Colorado; Offutt AFB, Nebraska; Vandenberg AFB, California; and other sites, worldwide. The NISSC II OM&S Task Order also establishes requirements for operations and maintenance support for the CMAFS Information Systems Infrastructure.

"We welcome the opportunity to help support the U.S. Air Force in continual operation, maintenance and sustainment of the systems necessary to make decisions about threats to North America, and to maintain space situational awareness," said Jacobs Critical Mission Solutions Senior Vice President Steve Arnette. "The importance of the USAF mission and challenges they face sustaining complex systems for a no-fail mission are tremendous catalysts that energize our entire workforce to redefine what's possible in delivering innovative solutions."

Missions will include warnings and control from airborne, land-based and space-based systems which sense and report threat activities in air and space against North America and its allies, and will be performed at Cheyenne Mountain Complex, located near NORAD and U.S. Northern Command headquarters at Peterson AFB in Colorado Springs.

JACOBS TO LEAD EUROPEAN UNION-FUNDED NUCLEAR POWER PLANT RESEARCH

Jacobs was selected to lead an international consortium whose cutting-edge research could lead to extensions in the operational lifespan of nuclear power plants around the world.

The INCEFA-SCALE program (INcreasing safety in nuclear power plants by Covering gaps in Environmental Fatigue Assessment) aims to reduce uncertainties about how critical components will perform when subjected to the harsh conditions inside operational nuclear power reactors. Although components and materials are extensively tested in laboratories, there are sometimes gaps in understanding the correlation between these tests and actual performance. This can lead to fatigue assessment parameters being set more conservatively than necessary.

The research will fill in those gaps by means of extensive data mining in international fatigue databases and detailed examination of test specimens to improve mechanistic understanding. Greater certainty about component performance will avoid unnecessary closures of nuclear power plants when they are still economically viable and safe to operate.

"By successfully leading this research, Jacobs has demonstrated its capability to knit together an international consortium and to bring together the very best, complementary capabilities," said Jacobs Critical Mission Solutions International Senior Vice President Clive White. "The European Union has sanctioned this follow-on project while the predecessor project is still live, which testifies to the success of the consortium and the relevance of the study topic to nuclear plant safety and lifetime assessments."

Operator of the U.K.'s largest independent nuclear laboratory complex in Birchwood Park, Warrington, Jacobs will contribute to multiaxial, thermo-mechanical and complex waveform testing to provide greater insight into the stresses and strains placed on components. This work will complement component scale tests being carried out in the U.S. by the Electric Power Research Institute, in collaboration with INCEFA-SCALE.

JACOBS SELECTED BY MOLTEx ENERGY TO HELP DEVELOP NEW TYPE OF NUCLEAR POWER REACTOR

Jacobs was selected by Moltex Energy to support their development of a new type of nuclear power plant – the Stable Salt Reactor. Jacobs will build a bespoke experimental facility for thermal transfer testing at its Birchwood Park research and development facility in the U.K.

Based on breakthrough science, Moltex Energy's Stable Salt Reactor is designed to generate low cost electricity by burning processed spent fuel pellets which would otherwise have to be stored as radioactive waste.

To assist with validation of thermal transfer modelling, Jacobs' chemistry, materials, engineering, instrumentation and modeling teams will collaborate to create a technically complex simulation to replicate the heat output of a fuel channel and to validate computational fluid dynamics modelling of the thermal transfer across the fuel assemblies into the coolant.

"We're looking forward to continuing our support for Moltex into this new phase of development as part of our strategy to be a solutions provider at the cutting edge of research into advanced reactors," said Jacobs Critical Mission Solutions International Senior Vice President Clive White. "The Stable Salt Reactor design is significant because of its potential to recycle waste in a clean, safe and economical way, generating electricity which will power communities while reducing carbon emissions."

JACOBS SECURES NEW PANEL APPOINTMENT WITH MELBOURNE WATER

Jacobs has been appointed to Melbourne Water's Engineering Services Panel. One of just two consultants appointed to the panel, Jacobs will deliver engineering consulting services, including strategic planning, feasibility and design services, to Melbourne Water to help deliver better outcomes for projects and customers. The appointment is for an initial three-year period with possible extension for up to 7 years.

"Our select appointment to this partnership is testament to both the global capability we bring to the table and the strength of our shared organizational values," said Jacobs People & Places Solutions Executive Vice President Patrick Hill. "We look forward to working closely with Melbourne Water over the coming years as a partner for change, applying our passion and experience to help improve water resilience and further enhance the world-leading livability of the city for all Melburnians."

As challenges from population growth, urbanization and climate change continue to grow, Melbourne Water is engaging with partners who can help them look beyond the status quo for clever solutions that build capacity, enhance sustainability and generate enduring social value for local communities.

"Melbourne Water is very pleased to have Jacobs as a partner to provide engineering services and looks forward to working with them in delivering innovative solutions that drive increased value for our customers and community," said Eamonn Kelly, General Manager, Major Program Delivery.

JACOBS ACQUIRES CYBER AND INTELLIGENCE LEADER THE BUFFALO GROUP

Based in Reston, Va., The Buffalo Group brings high-impact analytical and technology capabilities to the United States Intelligence Community for key missions across multi-domains including cyber, ground, sea, airborne and space.

"Defending our nation against adversarial threats is growing in complexity. The Buffalo Group's leading cyber and intelligence capabilities further strengthens our suite of national priority solutions across integrated multi-domain environments," said Jacobs Chair and CEO Steve Demetriou. "Like Jacobs, The Buffalo Group has a proven track record of winning multibillion-dollar full and open enterprise contracts. Under the leadership of Caesar Nieves as head of our new Cyber and Intelligence business, the combination of Jacobs and The Buffalo Group will provide additional opportunities across the Intelligence Community, Combatant Commands and the U.S. Army."



The Buffalo Group’s advanced, mission-critical solutions solve complex national priorities and security challenges in the areas of advanced analytics, advanced targeting, cybersecurity, cloud mitigation, DevSecOps (Development, Security and Operations), identity intelligence and biometrics, human intelligence, open-source and social media analysis, geospatial intelligence, cyber threat intelligence and artificial intelligence/machine learning. The Buffalo Group President Paul Courtney said, “Joining with Jacobs will enable The Buffalo Group’s talented team to deliver even more innovative technologies and capabilities to customers. With a proven record for delivering cutting-edge technology solutions that drive critical business outcomes, Jacobs represents a technical, cultural and philosophical fit for The Buffalo Group team.”

The Buffalo Group provides innovative capabilities and extensive domain expertise to solve complex national security challenges. The company offers a diverse set of analytic and technology capabilities, fused together in support of key missions for agencies across the Department of Defense and the Intelligence Community. The Buffalo Group supports a diversity of sensitive missions including counterterrorism, space / counterspace, and cyber threat intelligence.

JACOBS SECURES PLACE ON HIGHWAYS ENGLAND’S TECHNICAL ADVISOR FRAMEWORK

Jacobs has been awarded a place on Highways England’s Technical Advisor (TA) Framework to assist in the development, design and construction of capital road projects in the Roads Investment Strategy (RIS) 2, the strategy for investment in and management of the strategic road network in England.

Highways England has appointed Jacobs to Lot 4 (South West and Midlands) of the Regional Delivery Partnership TA Framework. With investments totaling more than \$1.27 billion (£1 billion) over the 6-year framework, it is hoped that the road schemes in the framework will boost the economy and make the network safer and more reliable.

“Jacobs and Highways England have a long-established relationship and this award provides an excellent opportunity to continue assisting them in the Regional Delivery Partnership as Technical Advisor,” said Jacobs People & Places Solutions U.K./Europe Senior Vice President and General Manager and Global Executive Sponsor of Digital Strategies Donald Morrison. “We believe we are well placed to support Highways England in achieving its Framework vision through our involvement at all stages of the project lifecycle.”

As Technical Advisor, Jacobs will work closely with the Regional Delivery Integration Partner to help Highways England create an environment that will foster project success. Jacobs’ scope under the framework includes the economic evaluation, route decision, technical assurance and supervision of capital road projects.

Highways England is the government organization charged with planning, improving, managing, operating and maintaining England’s Strategic Road Network – over 4,300 miles of motorways and major A roads connecting the country and driving economic growth. In the U.K., Jacobs supports Highways England’s National Infrastructure and Regional Investment Programs and its Smart Motorways Program, as well as programs for Transport Scotland and the Welsh Government.



JACOBS TO DESIGN AND MANAGE MUNICIPAL SERVICES CONTRACT FOR DEVELOPMENT PROJECT IN HONDURAS

Jacobs was selected by Honduras Próspera to assist in community planning services to advance economic development and help spur job creation for a new city on the island of Roatán in Central America. Jacobs’ initial role includes advising the development group’s leaders and planners as they establish zoning, finalize plans for utility systems, roads and rights-of-way, and structure administration and services.

Jacobs will work with Honduras Próspera to structure municipal government and citizen services. Organized as part of a semi-autonomous Zone of Economic

Development and Employment (ZEDE), the Próspera platform is configured to facilitate international investment, promote local business growth and create job opportunities for Hondurans.

“Partnering with Honduras Próspera to help the people of Roatán achieve their vision for economic growth is part of our commitment to creating sustainable communities and social value,” said Jacobs Executive Vice President for People & Places Solutions Ken Gilmartin. “This project will benefit the community for many years to come. Using our experience in municipal government operations and complex infrastructure projects, like the Panama Canal terminal expansion, to bring this project to life is a privilege.”

JACOBS SECURES POSITIONS ON TRANSPORT FOR LONDON’S TRANSPORT PLANNING AND IMPACT MONITORING SERVICES FRAMEWORK

Jacobs has secured 13 positions on Transport for London’s (TfL) renewed Transport Planning & Impact Monitoring (including Health & Safety and Environmental) Services Framework. These lots include key service areas such as strategic modelling and bespoke analysis, strategic transport scheme planning and design, and transport and environmental assessment.

TfL estimates the framework will operate for a maximum 4-year period, with contract mobilization immediately. The contract enables the whole of the TfL organization and London’s Borough Authorities to access strategic consultancy support in transport planning and impact monitoring.

“There has never been a more exciting time to support the vision of TfL in its work to support London’s green economic recovery and the city’s continuous efforts to become a more sustainable place to live and work,” said Jacobs People & Places Solutions Senior Vice President Europe and Digital Strategies Donald Morrison. “Through this framework, we look forward to bringing our latest thinking and technological advances to help TfL understand the key drivers of changing trends and the prioritization of schemes based on their environment, societal and economic impact.”

Jacobs provides wide-ranging support to TfL, including examining the environmental, health, equality, economic and business effects of London’s ULEZ ahead of its launch last year; Project EDMOND (Estimating Demand using Mobile Network Data) to provide a comprehensive view of travel patterns; and project, program and portfolio management and other services under TfL’s Professional Services Framework.