

USGS RETIREES

NEWSLETTER No. 197
November 2022

An organization of retirees of the U.S. Geological Survey, whose purpose is to keep its members in touch with each other and their former agency.

PRESIDENT'S MESSAGE

Hello

The issue contains some new articles related to the upcoming 50th Anniversary of the Retiree's Organization, articles about the 2022 Scholarship Awardees, an introduction to the new USGS Director, the new Deputy Associate Director for the Water Mission Area, and an article by a retiree about his Commencement Address to the class of 2022 at his alma mater. The board would like to remind you about the upcoming 2022 Reunion in Tucson, AZ. Below in the gray box, is the name, phone, and email for making reservations at the hotel. **Make sure you ask for hospitality.** If you haven't registered yet, this information will help to make the process easier.

With our next newsletter coming out in February 2023, Linda and I would like to wish you the safest and best holiday season for 2022.

Bill

Tucson, AZ ReunionTip for Making Hotel Reservations:

Contact hospitality, not reservations, through LaSash Ross at 520-629-2808 or lasasha.ross@atriumphospitality.com to make your reservation.

NOTE FROM EDITOR

Please join me in welcoming Joanne Taylor to the Newsletter Team. She has enthusiastically volunteered to be our new layout editor. With this announcement, Merilee Bennett is now fully retired and for now on will not be responding to any correspondence related to the Retirees' Newsletter. Contact me at j_stoner@comcast.net instead. Joanne provided her professional bio sketch below. You may recognize some of the characters she has had the opportunity to work with during her USGS career. Retiring from the USGS in January 2021, Joanne began her career in 1976 as a high school student working for the National Research Program (NRP). Those early days included working for NRP scientists such as Mary Jo Baedecker, Tyler Coplen, and Eric Sundquist, and NRP Chief, Roger Wolff. From the NRP, Joanne moved to the Chief Hydrologist's office. There, she served as staff assistant to Phil Cohen, Bob Hirsch, and Jack Fischer, and then as a program analyst for Jim Peters in Water's budget office. When the 1998 reorganization occurred, she moved to the Director's office to work as the Water and Biology congressional liaison for USGS Congressional Liaison Officer Tim West. Shortly after being promoted to Deputy Congressional Liaison Officer, and receiving her B.A. in English from George Mason University, Joanne moved to the Director's office as Deputy Chief of Staff. During her 14 years in the Director's office, Joanne worked for and with Judy Nowakowski, Chief of Staff, as well Directors and Acting Directors Mark Myers, Marcia McNutt, Suzette Kimball, Bill Werkheiser, and Jim Reilly.

As always, any correspondence (i.e., News of Retirees, Memorials, Retirements, etc.) should be either mailed to the 'Address' reflected on the sidebar of this page or emailed to the 'Email' url provided on the sidebar.

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USGS Retirees' Reunion

Reserve the dates
March 9-11, 2023 in

TUCSON, ARIZONA

Take a break from the cold, clouds, and snow of next winter to join your friends and former colleagues in the sun, warmth (avg. high of 78° F), culture, and beauty of Tucson and Southern Arizona! Celebrate the 50th Anniversary of the Retirees Association! For the March 2023 Reunion, we have a signed agreement with the Marriott Tucson University Park Hotel for a daily room rate of about \$155 (including tax and fees). The Marriott Hotel is adjacent to the University of Arizona and close to shopping, dining, and entertainment at Main Gate Square. The hotel also is a quick light-rail ride to down-town Tucson; an easy drive to Saguaro National Park East and West; and close to USGS offices on campus, hiking trails, golf courses, museums, and birding sites. If you're interested in extending your stay, the hotel agreement includes holding the reunion room rate for three nights prior to and after the reunion dates. We hope to see you in person in Tucson!

<https://www.marriott.com/hotels/travel/tusmp-tucson-marriott-university-park/>



Conde Nast Traveler (May 2021) named Tucson as one of its Where to Travel Next: Hot list 2021 destinations. "Most come to Tucson for its miles of hiking trails under year-round sunny skies, but it's also worth visiting its food industry. The city is the first place in the U.S. recognized by UNESCO for its gastronomy, and it's easier than ever to seek out its Mexican and Native American heritage."

Stephanie Wu (2021, Conde Nast)

NOTE: For those concerned about the ongoing COVID19 pandemic and what measures both the hotel and City of Tucson have implemented - you can either click on the link below or type in the reunion webpage which contains the web addresses for both the hotel and the City of Tucson. [What to Expect in the Age of COVID-19 | Tucson Marriott University Park](#) or [COVID-19 UPDATES | Official website of the City of Tucson \(tucsonaz.gov\)](#)

SIGN-UP FOR LONG-OVERDUE REUNION
University Marriott
880 E. Second Street
(520) 629-2808 (Mention USGS Reunion – LaSash Ross)
Room rate is \$155/night including taxes and fees.
Hotel Reservations open September 1, 2022

NOTE:

- The Registration Form does not include the Hotel Room Reservation.**
- Hotel offers Reunion block rate 3 days before and after Reunion if you desire to extend your stay.**
- No cost for hotel reservation and canceling.**

Highlights of Tucson Area
Friday March 10, 2023 (11:30 a.m. – 5:00 p.m.)

The easiest way to see and experience the uniqueness of the Tucson area is a bus tour with multiple stops at some unique places. Buses will pick us up at the Hotel for a departure at 11:30 a.m. on Friday with an option to buy a box lunch. Some sites are under negotiation, others still closed due Covid, but a great tour is promised. Some examples are:

San Xavier Mission established in 1692 and completed in 1797. It is the oldest intact European structure in Arizona. <https://www.sanxaviermission.org/>



The **309th Aerospace and Maintenance and Regeneration Group** often called the Boneyard, is a United States Air Force aircraft and missile storage and maintenance facility located on Davis–Monthan Air Force Base. Established after World War II, the AMARG manages 4,000 aircraft-- the largest-aircraft storage facility in the world. Many unique aircraft are found here.



https://en.wikipedia.org/wiki/309th_Aerospace_Maintenance_and_Regeneration_Group

The Gem and Mineral show in Tucson will be over by the time of our reunion but the University of Arizona has opened a new Gem and Mineral Museum in the old Pima County Courthouse with impressive specimens and a link to the mining history of the area.

<http://gemandmineralmuseum.arizona.edu>



Other possible sites, include Old Town Artisans, Saguaro NP and a demonstration of drone technology by the AZWSC, are planned with more details to follow.

Description of Sonoran Desert Museum Tour Saturday March 11, 2023 (8:30 a.m. – 1:00 p.m.)

The Arizona-Sonora Desert Museum is a 'must see' place when visiting Tucson and the Sonoran Desert. We have chartered 2 buses that will pick us up at the Hotel on Saturday morning and deliver us to the facility which is about 23 miles west of the University campus. Primarily outdoors and comprised of a zoo with mostly native desert species, an extensive botanical garden, two art galleries, and a natural history museum. The Desert Museum sits on 98-acres of pristine desert landscape. The Museum showcases the diverse flora and fauna of the Sonoran Desert region with over 55,000 plants. Wildlife can be viewed such as coyotes, javelinas, mountain lions, and bighorn sheep in naturalistic habitats. Bird lovers delight in visiting the Museum's two aviaries, one dedicated to hummingbirds. The Museum's gift shops offer an incredible bounty of books, jewelry, crafts, and more. Handicap accommodations are available.

<https://www.desertmuseum.org/>



OTHER ACTIVITIES

Golf

We want to create the opportunity for the golfers among us to take advantage of our beautiful courses Thursday afternoon or Sunday morning or both days. Rather than guessing the best event timing and format, we have time to base it on the input of those interested in participating. Tucson has a wide range of municipal and public courses available from ~\$50 per round to high-end resort courses with prices in the low triple digits. An expression of interest will result in your receiving a survey to give us your preferences in day or days, cost range, format (scramble, best ball, mixed gender foursomes just playing golf, etc.,).



Contact Bob MacNish at macnish7@gmail.com or (520) 293-6547 **by January 1, 2023**, to express an interest and help us put together a golf experience that all will enjoy.

USGS Jam session

In addition to having world-class scientists, USGS has its share of talented musicians, who have gathered often for informal jam sessions. We would like to have an evening of music at our reunion, perhaps on Friday, March 10th. Bring your favorite acoustic instrument, and maybe sheets with lyrics and chords to share. If you can't bring an instrument, we may have a few to share.



If interested, contact Pat Tucci at ptucci@sprintmail.com **by February 15, 2023**, so that we can arrange space. Hope to hear you there!

REGISTRATION FORM -- 20TH USGS RETIREES' REUNION 2023**Tucson, Arizona****Thursday, March 9 through Saturday, March 11, 2023**<http://wrdretirees.org/Reunions/2023Tucson/index.html>Complete this form, make check payable to **"USGS Retirees Reunion"**, and mail to:USGS Retirees Reunion c/o Sandy Williamson
16809 Lakeside Dr. So. Spanaway WA 98387 c 253-376-8273

Note: This Registration Form **does not** include the Hotel Room Reservation. Encourage you to call early the University Marriott directly at: **(520) 629-2808 (LaSash Ross) mention USGS Reunion**. Hotel offers Reunion block rate 3 days before and after Reunion if you desire to extend stay. No cost for reservation and canceling. Room rate is \$155/night including taxes and fees; **Hotel reservations open September 1, 2022.**

REUNION REGISTRATION--Deadline February 1, 2023 - Refunds are available prior to the February deadline.**Print first and last name(s) as you'd like on name tag(s):**

RETIREE (1st, last): _____ SPOUSE (1st, last): _____

Year Retired _____

STREET ADDRESS _____

CITY _____ STATE _____ ZIP CODE _____

EMAIL _____ PHONE _____

REGISTRATION FEE: _____ **NUMBER** _____ **@ \$95 per person** \$ _____

Includes Thursday evening ice-breaker reception, with drink ticket and hospitality room for the three days.

Thursday, March 9, 2023

Reunion check-in is 2:00 to 7:00 p.m. Hospitality Room opens at 3:00 p.m. Informal Reunion ice-breaker reception (6 pm to 9 pm). The Hospitality Room will be closed during the reception and subsequently reopened.

TOURS: (One Friday and one Saturday) capacities are limited and filled based on date of registration. Refunds will be given for applications received after maximum capacities have been reached:**Highlights of Tucson Area Bus Tour , Friday (11:30 am - 5:00 pm) March 10, 2023:**

(Maximum Capacity 100)

Number for tour: _____ @ \$65 /person = \$ _____

Optional Box lunch \$15

Number for lunch: _____ @ \$15 /person = \$ _____

Arizona-Sonora Desert Museum, Saturday (8:30 am to 1:00 pm) March 11, 2023: <https://desertmuseum.org>

Tour includes transportation, museum entrance fee, and refreshment. (Maximum Capacity 100).

Number: _____ @ \$50 per person = \$ _____

Banquet, Saturday (6:00 p.m. to 9:00 p.m.) March 11, 2023:

Banquet in Ballroom in hotel. The Hospitality Room will be closed during the banquet and subsequently reopened. Choose from entrees below. NOTE: Dinners are served with house salad, artisan bread, and chef's selection of desserts, ice tea, coffee, and assorted herbal teas

Meal Choice:	Grilled Top Sirloin	Stuffed Chicken Breast	Vegetarian	Number of meals	
Indicate Entrée Choice(s) by first name:				Number: _____ @ \$56 per person =	\$ _____
				(Price includes all taxes, tip, 1 drink ticket)	
Total cost:					\$ _____

Questions? markandersonwater@gmail.com sandeb2@gmail.com ptucci@sprintmail.com

2022 USGS RETIREES' SCHOLARSHIP WINNERS

On Wednesday (April 6), the U.S. Geological Survey (USGS) Retirees' Organization announced the winners of their 2022 Scholarship Program. They are:

- Joshua R. Price (OR Water Science Center in Portland, OR) attending Portland Community College, Portland, OR;
- Surya Freeman (OH-KY-IN Water Science Center in Louisville, KY) attending Jefferson Community and Technical College, Louisville, KY;
- Ian B. Lynch (PA Water Science Center in Bridgeville, PA) attending Community College of Allegheny County, Pittsburgh, PA;
- Maura Uebner (South Atlantic Water Science Center in Charleston, SC) attending California State University, Sacramento, CA;
- Banu Bayraktar (NY Water Science Center in Troy, NY) attending the State University of New York at Buffalo; and
- Jessica Anderson (AZ Water Science Center in Flagstaff, AZ) attending American Public University, Charles Town, WV.

"The USGS Retirees' Organization Scholarship Program has been a great success over the years and this year was exceptional. We are so pleased to award over \$9,500 to the 6 winners in 2022," said Bill Carswell, President of the USGS Retirees' Organization. "This program has been amazing over the last 17 years, and we hope it will continue to grow and give educational opportunities to career scientists and engineers in the USGS."

This program, sponsored wholly by the USGS Retirees' Organization, has been in place since 2006 and has awarded almost \$90,000 to more than 40 aspiring students who work for the USGS across the Nation.

To learn more about the new USGS Retirees' Organization and the associated Scholarship Program visit <http://wrretirees.org/scholarships.htm> or contact D. Phil Turnipseed (Phil.Turnipseed@gmail.com) for more information.



Josh Price, Oregon Water Science Center, Portland, OR
Joshua (Josh) Price, a hydrologic technician in the USGS Oregon Water Science Center QA/QC Section, is one of this year's scholarship winners. Josh has used the scholarship money to take classes in physics and calculus at Portland Community College to meet the education requirements for conversion to the hydrologist series. Josh has worked for the USGS for more than 7 years and has been in Federal service for 12 years total having served in the USAF before joining the USGS. Josh currently leads sediment sampling efforts on the Lower Columbia River as well as spearheading the datum conversion efforts at all ORWSC gages statewide. As a member of the QAQC team Josh is helping in program development, new technician training, fleet maintenance and continuing to run

gages of his own. According to Josh's scholarship application Josh values the core mission of the USGS to provide quality, unbiased data and the unique opportunities and exposure to environments and experiences that no other work setting could provide.

Josh received a certificate for the scholarship from Bill Carswell, the USGS Retirees President, via the internet on May 23, 2022. Josh has since then finished his course work for which the scholarship provided funding with more than satisfactory grades and now stands prepared for an opportunity for conversion to a professional series with the USGS. He is grateful to the Retirees for alleviating the financial burden, providing him an opportunity to grow as a professional, and position him for the potential to contribute more to the organization in the years to come.



Surya Freeman, Ohio-Kentucky-Indiana Water Science Center, Louisville, KY
Thanks again to you and the USGS Retirees for awarding me one of the 2022 Hydrologic Technician Scholarships! This scholarship has paid for me to take a physics course at my local community college here in Louisville, KY. After completing this course, I will have fully met the requirements to apply for a Hydrologist series position within USGS. The course has been a great opportunity to brush up on physics concepts that will be essential in more project-based work in my future. I am so grateful to the Retirees for this opportunity! I also wanted to let you know that my physics class ended this past Sunday and I finished with an A+. Again, I'm so appreciative of the scholarship! I look forward to seeing a copy of the fall newsletter.



Ian Lynch, Pennsylvania Water Science Center, Bridgeville, PA
 Ian Lynch (right) receiving scholarship from his supervisor Jamie McCoy
 Thank you to the USGS Retirees for awarding me one of the 2022 Hydrologic Technician Scholarships. This scholarship has paid for me to take calculus and physics courses at the Community College of Allegheny County in Pittsburgh, PA. After completing these courses, I will have fully met the requirements to apply for a Hydrologist series position within USGS. I currently run a 19-site field trip including surface water discharge, water quality monitors, and groundwater monitors. In addition, I take monthly water quality samples including samples for a statewide PFAS study. This year, I am running a PFAS sampling project at wastewater discharge sites that accept fracking waste. I am also involved in public outreach from our center. So far in my career, the

USGS has presented me with opportunities to work with wonderful people and do interesting and engaging science. I enjoy the year-round field work and I am looking forward to getting to participate in more technical and data driven studies as I progress in my career. I appreciate the flexibility that I have had in working with the USGS throughout the pandemic; it is by far the best job I have ever had.



Maura Uebner, South Atlantic Water Science Center, Charleston, SC
 Congratulations to Maura Uebner who received a USGS Retirees 2022 Scholarship! Maura is a HydroTech in Charleston, SC and will begin a Master's program in Geology this fall at California State University in Sacramento. Maura has been with the Survey for 3 and a half years. Her primary duties as a HydroTech included collecting and analyzing water-quality and stage data, and preparation of that water-quality and surface water data for publication. Maura credits her mom, a career employee of the California Department of Parks and Recreation, with developing in her an appreciation for public service. While working on her Master's degree in Sacramento, Maura will be a full time staff member of the California Water Science Center.



Banu Bayraktar, New York Water Science Center, Coram, NY
 Banu at a field site in New York

Thank you to the USGS Retirees for supporting my work at SUNY Buffalo where I am completing my M.S. in Geological Sciences. This is my second year of graduate work whose focus is on analyzing environmental data. This semester's classes include Ecohydrology and Brownfield Restoration in addition to research credits that focus on analyzing the effectiveness of bioretention systems, specifically rain gardens in the city of Buffalo which is also a cooperative project with Buffalo and USGS. My thesis will contribute to the final report on the project. I feel fortunate to be able to advance my education while also contributing to an important USGS project. I feel that we are helping the community to understand the links between the built environment and its impact on natural systems. I am

proud to carry on the USGS tradition of solid science and the data to back it up. Our agency has its respected reputation for a reason, and it can be attributed to the importance that USGS employees place on providing the best data and science products possible.



Jessica Anderson, Arizona Water Science Center, Flagstaff AZ
 Jessica Anderson, a hydrologic technician in the USGS Water Science Center Flagstaff office, is one of this year's scholarship winners. She will use the scholarship money to take classes in physics and calculus at American Public University to meet the education requirements for conversion to the hydrologist series. Jessica has worked for the USGS for more than 15 years, and currently leads several water-quality projects for NAWQA sampling in northern Arizona, sampling and uranium monitoring in the Grand Canyon, and runs several other water-quality related projects. According to her scholarship application "I love the science that we do. It is important to me to work for an organization that prides itself on non-bias, quality data. I've spent 15 years of my life learning how to collect the best data possible and I now feel ready for a new chapter by being able to take my data collection experience and be able to analyze and report the finding to the public."

Jessica received a certificate for the scholarship from Pat Tucci, the Western Region Retirees representative, at the Flagstaff office on May 23. In an email to Retirees President, Bill Carswell, Jessica wrote "Thank you so much, Bill. I am so grateful for this program and the help."

THE 50th ANNIVERSARY OF THE WRD/USGS RETIREES' ORGANIZATION

By Herb Freiburger

The WRD Retirees' Organization was founded in 1973 and remains highly viable as we near 2023, which means it has been in existence for an amazing 50 years. What makes it amazing is the fact that its operation has been guided by literally hundreds of different retiree members throughout the last 50 years. What is even more amazing is when all these retired members served, they did so as 100% volunteers.

The Organization currently has about 1,200 members nationwide, down from about 1,600 members 5 years ago. Most of the members are retired employees and, in several cases, surviving spouses. Its major drawing card is a quarterly newsletter which is highlighted by a section titled "News of Retirees". Here, retirees can pass news back and forth as to how they are doing, what they are doing, and briefly describing great trips and adventures. Internal polls have shown that our retirees consider it highly important to know how their friends and co-workers from the past are doing. Working at USGS, members developed relationships that were family-like with these same people and others in the USGS. From all the past records in the Retirees archives, which currently is in USGS headquarters in Reston, VA, we can most assuredly say that no quarterly issue of the newsletter from day one of the Organization until now has ever been missed, not even in the last two years when the horrible COVID pandemic was prevalent.

The Retiree's Organization also has sponsored biennial reunions which have been held on a rotational basis in a location within one of the four USGS regions that were dominant in the nation during the 50-year period. Those regions are the Northeastern, Southeastern, Central and Western. In 2006, the Retirees Association began sponsoring a scholarship program intended to enhance the Hydrologic Technician workforce in USGS by helping recipients earn a degree as a Hydrologic Technician or to become OPM-qualified for Hydrologists positions. To date, the members of the Retiree's Organization, through dues and(or) extra contributions, have sponsored just over \$90,000 in scholarships to 47 awardees—an accomplishment we proudly laud.

In this article, we intend to set the stage for 2023, the Retirees' Organization anniversary year. We will include several special articles about the Retirees Organization in each of the four issues of the newsletter. At this point, we are considering the following articles: (1) a history of the Retirees Organization; (2) an article written by Robert Hirsch, former research hydrologist, Chief Hydrologist, and current USGS Scientist Emeritus employee and Retiree member; (3) the history of our scholarship program; and (4) short citations on events that occurred during the first 50 years of the Retirees Organization, including many about the Organization itself, some about the USGS, some that are a potpourri of events we found in the archives, and some that you may find just plain humorous. Our last article in the November 2023 issue will basically respond to the question "Where do we go from here."

Our feature article in this issue of the newsletter honors our founder of the WRD/USGS Retirees, George E Ferguson. Some Retirees may remember George Ferguson, or even worked with him and know his impressive accomplishments. Some of you did not know him or have barely heard of him. Hopefully, after reading this article, you will understand why he is considered a legend in the USGS and with the Retirees' Organization. As a tribute to George during each biennial Retirees' Reunion, we present an award in his name to 2 or 3 selected members who have provided exemplary contributions and services to the Retirees Organization.

GEORGE E. FERGUSON: FOUNDER OF THE WRD/USGS RETIREES' ORGANIZATION



George E. Ferguson was an absolute icon with the U.S. Geological Survey (USGS) during his 44-year USGS career and as creator of the WRD Retirees' Organization and volunteer serving as its newsletter editor for 13 years. He worked with the USGS (active and retired) for most of his life, leaving his mark on almost everything he touched until he passed away at the age of 102.

George was born and raised in Minnesota graduating from the University of Minnesota with a degree in Civil Engineering in 1928 and then joining the USGS. After a short training assignment in Columbus, Ohio, George transferred to the Texas District to work on investigations of flow and diversions from the Lower Rio Grande River. In 1931, he transferred to the Hawaii District where he spent the next six years in the determination of streamflow in the Hawaiian Islands and in the development of improved methods for measuring the flow of mountainous streams having severe floods that carried heavy debris loads. Also, while in Hawaii, either before or during World War II, he prepared a classified report for the Army on the availability of water supplies for troops on Oahu. Following a brief detail in 1938 to WRD Headquarters, George spent the next three years conducting surface-water investigations in the Mid-Atlantic States. In 1940, George transferred to Florida where for six years, he served as District Engineer in charge of surface-water investigations. George then transferred to WRD Headquarters in 1946 where he was heavily involved in developing a new organizational plan for the Division. The plan included sweeping changes nationwide involving the planning, implementation, and supervision of water-resources investigations and research activities.

In 1956, he was selected as the Regional Hydrologist of the Atlantic Coast Region with responsibility for investigations in twenty eastern states, Puerto Rico, and the Virgin Islands. He served in that capacity for 16 years and by the time he retired, in June 1972, he held the record for length of service for a Regional Hydrologist, a record that has never been broken. George received the Department of the Interior's Distinguished Service Award in 1970.

Following retirement, George came back in a volunteer capacity and worked diligently on Volume V, the 1947-57 updating of the "History of the Water Resources Division" which was published as a USGS special publication. Each volume of all the histories reflected what occurred during the tenures of each Chief Hydrologist we have had. The one George wrote and directed was for the tenure of Carl G. Paulson, Chief Hydrologist, 1947-57. Soon after his retirement and of lasting importance to all USGS retirees, he led the founding of the WRD Retirees' Organization in 1973, followed by 18 years of voluntary service and contributions. From 1973 – 1976 he chaired the Organization's Work Group and served as Newsletter editor. Subsequently, he was editor of the Newsletter and the Directory from 1976 to 1987. These formed the cornerstone of this nationwide Organization, which had grown from an initial 221 to 1,400 members in 1987.

Throughout George's long and illustrious life, he was known for his integrity, kindness to others, wide-ranging interests, willingness to serve his profession, fellow man, and nation in a variety of ways. He was a gentle man and a gentleman dedicated to the USGS mission. Part two of the 50th anniversary celebration will be in the February 2023 issue of the newsletter. It will describe in further detail how George and others he led founded the Retirees' Organization and kept it going. The reasons why the Organization is still thriving after 50 years are the result of having a strong string of varied and dedicated volunteer retirees right from the start and the continued support of WRD's Senior Staff, both of which enabled the Organization to continue moving forward. Each of the volunteers who participated in the USGS Retirees' Organization had a strong feeling of USGS family and a deep respect for the man, George E. Ferguson, who started the Organization 50 years ago.

LETTER TO EMPLOYEES FROM THE NEW USGS DIRECTOR
(Reproduced with permission)

Hello again!

Last Monday was a big day for me. Being sworn in as the 18th Director of the USGS is the honor of a lifetime. The ceremony gave my daughters the chance to meet Secretary Haaland, who is quite the inspiration. They also met Assistant Secretary Tanya Trujillo, who — always a champion for our Landsat partnership — encouraged them to be future members of the Ladies of Landsat!

I was thrilled to spend the summer after college working as an NAGT/USGS summer intern at what is now the Geologic Hazards Science Center in Golden, CO. And I was thrilled 18 years ago when I had the opportunity to return to the USGS as the Senior Science Advisor for Earthquakes and Geologic Hazards and then as the Associate Director for Natural Hazards — each one a dream job. I have been very grateful for all the support I've received over the past 18 months while exercising the delegated authority of the Director, and I will need that and more to succeed going forward.

I come to this role with a deep sense of responsibility to advance the tremendous mission entrusted to all of us. Today's USGS draws on a great legacy of science in service to society and I look forward to building an even better legacy going forward — ensuring the USGS is more inclusive and more diverse — and delivering science that reflects and responds to the needs and capacities of the public we serve. That is my first and overarching priority for the USGS under my leadership — to ensure our science reaches those who need it the most in the ways that they can most effectively use. I believe expanding our ambitions for the availability and use of our science will enable even more USGS science in the future.

I have witnessed this ambition for a USGS that does and delivers more science, more equitably, to greater impact across our organization. Such an ambition also reflects the expectations of our partners and stakeholders, reflecting their trust in the abilities, independence, and integrity of the USGS and our science. Our credibility, and the trust we've established, reflects our leadership across the federal government in establishing and implementing strong scientific integrity policies and practices. Our Fundamental Science Practices define how we work to achieve the highest quality and integrity in our science, and they are our bedrock.

Over the past 20 months, as I have exercised the delegated authority of the Director, we have made the case for new resources. Our success in that endeavor, and the support we received from the Department of the Interior (DOI), the White House, Congress, and our partner agencies is a consequence of their trust in our scientific independence. As a consequence of that support, we have substantial new resources to bring to bear on Administration priorities, both through increases in our annual appropriations from Congress responsive to the President's budget request and from the Bipartisan Infrastructure Law (BIL) and just-enacted Inflation Reduction Act. The BIL has resulted in major new investments in foundational datasets and analyses for critical minerals both below and at the surface, supporting our Earth Mapping Resources Initiative (EarthMRI), geoscience data preservation, and new facilities for our energy and mineral researchers. In addition to this direct funding, we are seeing support from other agencies seeking USGS science to help them prioritize and focus the investments being made in other parts of the BIL. And the just-passed Inflation Reduction Act further invests in our 3D Elevation Program (3DEP), which will accelerate completion of this foundational data layer for the nation.

The USGS is making critical contributions to the launch of several new outlets for broad use and application of our science and information. We are playing a key role in the development of the American Conservation and Stewardship Atlas, and the same is expected for the recently announced Nation's Nature Assessment. Likewise, the statutory mandate for the National Water Census represents a high-profile means to bring together our many data streams and scientific studies. Such products provide avenues for us to synthesize the wide array of work that we do, and they also illustrate the core mission of the USGS as reflected in our 21st Century Science Strategy — Drawing on our wide array of data and expertise to deliver actionable information, whether in the form of real-time situational awareness or long-term resource and hazard assessments. These products are ambitious in their scope and there are potential roles for virtually all our science programs. How broad and comprehensive these efforts are in fact will rely on our willingness and ability to collaboratively deliver our diverse science and capabilities.

We succeed as an organization when our people are provided with the support — training, facilities, recruitment, a healthy workplace, and culture — required for them to succeed. We succeed as an organization when we have effective enterprise resources — to hire, to share our messages, to engage with stakeholders, and to evaluate our performance — required across our complex structure.

For some time, there has been a growing gap between the funding we receive for science and what we receive for our science-support functions, which are equally essential to carrying out our mission. To start closing the gap, we have designated funds to address this science execution shortfall, which will allow Human Resources and other science-support offices to make critical hires. Going forward, we are building science-support needs into all our budget requests. Having the financial resources to do this work is only part of the equation, and our ultimate success comes down to people. During my time exercising the Director's role, I have heard loud and clear that as exciting and welcome as these new opportunities are, there is an implementation challenge to successfully seizing them. The biggest challenge is ensuring we have the workforce needed to deliver our science. First and foremost is to recruit and retain the staff needed to bring our wide range of data and expertise to bear not just on new opportunities but on our existing commitments to deliver science to help address the complex and intertwined environmental, resource, and hazard issues that face the nation.

To assist the USGS with this effort, our Executive Leadership Team (ELT) established the Human Capital Transformation Team (HCTT). The team brings together a wide range of expertise and perspectives, with members from centers, regions, mission areas, the Office of Human Capital, and other science support offices to give us a wide range of expertise and perspectives. At its heart, the HCTT is about rebuilding the partnership between human resources staff and hiring managers, strengthening the spirit of collaboration and respect, and re-establishing a shared mission, all of which are important to our success. At a HCTT forum earlier this week, we heard from the team about the innovative products and tools they have developed to enhance communication and improve human capital efforts within the bureau. There will be more such forums to come as the HCTT continues to find creative ways to solve our staffing challenges.

In order to bring the next-generation workforce on board and retain them, we need to provide not only a strong sense of our mission but also a harassment-free, inclusive workplace environment in which they can thrive. That workforce needs to better reflect the nation we serve. Many years of good intentions when it comes to Diversity, Equity, Inclusion, and Accessibility (DEIA) have not moved the dial the way we want to. At the DEIA town hall held earlier this summer, we heard from those involved in a number of efforts that are now underway, both in terms of our own workforce and who our science reaches and responds to, and the ELT is reviewing a DEIA action plan that outlines concrete steps to make meaningful progress. With our Diversity & Inclusion Council structure linked from the national to the regional- and mission-area level groups, along with our Employee Resource Groups, we have the mechanism to knit together the grassroots efforts that I see across our centers to effect change as an organization. Work environment is central to both an individual's and the organization's success. I'm grateful for the work of our peer support workers to create a more inclusive work environment and to help their colleagues know what resources are available to them. Likewise, the ombuds function provided by the Department is there to help navigate issues. And all managers and supervisors have a duty to report harassment claims.

To deliver our science to those who need it most will require working even more closely with our many partners in DOI and beyond to understand their needs and to leverage their expertise, resources, and capabilities to complement our own. We are developing a strategy for working more effectively with Tribes, moving beyond formal consultation to partnership and co-development of science and data. We are also standing up an Environmental Justice (EJ) committee that will help shape a shared USGS vision for EJ, identify barriers that underserved communities may face regarding access to or involvement in USGS science, and ensure EJ principles are incorporated into existing USGS plans and processes. Another operational challenge is our facilities. We are in the midst of several major new facility construction projects, replacing science infrastructure that is well past its design life. These efforts have been enabled by strong congressional and administration support, but rising costs are hitting us hard, and we have many additional facility needs yet to be addressed. As we emerge from the pandemic, we need to right-size our facilities footprint in a way that makes sense for our new work posture, but to get it right will take time. It's going to be a balancing act. The facilities master planning effort currently underway will help a great deal.

I recognize that our laboratories are in particular need of attention. The COVID-19 pandemic has challenged us all, but it has posed a particular challenge for those aspects of our work that cannot be done remotely, like that performed in our labs. We are re-launching a bureau-level lab oversight committee to build on the work already happening on quality management systems and examine our policies and practices on lab safety, animal handling, accreditation, and facilities.

As is ever the case, we have before us opportunities, and we have challenges. I'm committed to our mission, our unique role in government, and to all of you, my colleagues. We will seize these opportunities and face these challenges together. Scott Morlock, our Midcontinent Regional Director who we recently lost, shared his motto with staff and colleagues, and it resonates with me greatly, "Be kind, be patient, and be safe. We do this and together we can get through anything."

Dave Applegate
Director

NEW DEPUTY ASSOCIATE DIRECTOR WATER MISSION AREA

Please join me in welcoming Dr. Joshua Joseph to the Water Mission Area (WMA), where he will be serving as the Deputy Associate Director. Joshua has over 25 years of domestic and international experience in environmental and water science, engineering, policy, technology, and management in multiple sectors, including government, private industry, and academia. Joshua comes to the USGS from Bechtel National Inc., where he has served for the past three years as a Senior Environmental Scientist-Engineer, leading the development of the Environmental Management Plan for the Ground Based Strategic Deterrent Program as well as supporting marketing and business development.



From 2014-2019 Joshua served as Associate Professor and Chair of the Department of Civil and Environmental Engineering at his undergraduate alma mater Southern University and A&M College in Baton Rouge, LA, where he focused on freshmen retention and achievement, and established research programs for water resources, engineering, risk management applications, and groundwater hydrology. During his tenure as Chair, he achieved the successful accreditation of the Department by the Accreditation Board for Engineering and Technology (ABET). Prior to that he worked for six years as a Senior Technologist in the Water Business Group of CH2M Hill, six years at Los Alamos National Lab on issues related to nuclear materials control and accountability, domestic safeguards, physical protection, and international protection and controls, and four years in the Environmental Protection Agency's Office of Ground Water and Drinking Water and Office of Research and Development.

Joshua received his Ph.D. in Civil and Environmental Engineering from Virginia Tech, where he focused on Environmental and Water Resources Engineering and completed his dissertation "Computational Tools for Improved Analysis and Assessment of Groundwater Remediation Sites". He received a Post Master's Certificate from The Johns Hopkins University's G.W.C. Whiting School of Engineering. He received a Master's of Public Policy degree from Harvard University's John F. Kennedy School of Government, where he majored in Environment and Natural Resources with a minor in Science, Technology, and Public Policy. While there he focused on models of cooperative research and development for environmental technologies and engaged with community groups and nonprofits on issues relating to environment, urban development, and economic empowerment. He received a Master's of Science degree in Civil and Environmental Engineering from the Massachusetts Institute of Technology, with his thesis on "A Hydro-Geochemical Assessment of Groundwater Flow and Arsenic Transport in the Aberjona River Sub-Basin". He received his Bachelor's of Science degree summa cum laude in Civil Engineering from Southern University.

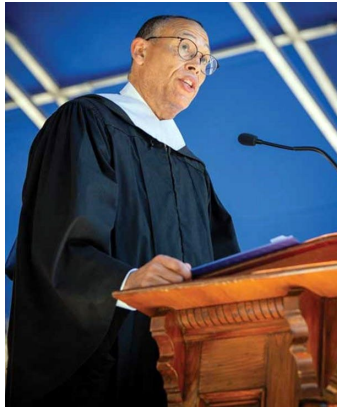
Finally, I would like to thank Gene Summerhill, who has done an outstanding job serving as the Acting WMA Deputy AD since Bill Guertal retired at the end of last year. Although Gene will return to his previous role, he will retain some of the high-level administrative duties from his acting assignment while Joshua focuses more on science activities.

Joshua can be reached at JAJoseph@usgs.gov

-Dr. Donald W. Cline, Associate Director for Water Resources, U.S. Department of Interior, Reston, VA

Steve Hammond '79, Commencement Address, May 22, 2022

On a brilliant May more than 40 years after his own Whitman College graduation, Steve Hammond '79 faced the Class of 2022 from behind the podium—a tall figure in a long black robe.



“Remember how you got here,” he counseled the graduates. “It has not been easy, has it? But you have shown strength and perseverance. You have grown and stretched in ways that you never would have believed possible.”

Hammond spoke from a place of poignant—and often painful—personal experience. While there was no lockdown or quarantine to contend with when he was in school, he could certainly relate to feelings of isolation.

“As a person of color on this campus in the '70s, I struggled ... I did not feel very welcome here at times,” he told the crowd. “Role models were few. It took me several years of reflection to realize how fortunate I am to have received a Whitman education.”

Fostering the inclusion and mentorship he felt he missed as a young Black man at Whitman has been a defining feature of Hammond's career with the U.S. Geological Survey—and a focus of his time as a college trustee. Again and again, in his speech and the interview for this post-commencement profile, he returned to the importance of cultivating relationships to sow change. Standing Tall for Change Hammond grew up in Denver and set his sights on engineering school before a serendipitous trip to Whitman changed his mind. He majored in math and geology, played on the tennis team, and was a founding member of the Multi-Ethnic Center for Cultural Affairs (MECCA), still part of the Interest House Community. He also hosted a popular jazz radio show on KWCW. But despite his involvement on campus, being one of only a small number of Black students brought challenges.

“There was an aspect of loneliness and feeling separated that left me a bit frustrated,” he says.

Still, Hammond has Whitman to thank for his most committed relationship. He and his wife, Charlotte Bibb Hammond '79, met in a stairway in Anderson Hall and recently celebrated their 42nd anniversary.

In many ways, his Whitman experience prepared him for a distinguished career at a majority-white institution: The U.S. Geological Survey. Starting as an intern, he went on to be recognized multiple times by the Secretary of the Interior for service during the bureau's hazard response activities, including after Hurricane Katrina and Deepwater Horizon. Hammond is now an Emeritus Scientist and volunteers his time to specifically support people of color and women in STEM fields.

“Aside from all the scientific work, which I loved, I was also on this crusade to try to get the organization to flex, to shift how it operated—to see itself differently and be more inviting to people. You get a seat at the table so you can be part of those decisions, become a role model and create a better environment.” That same philosophy guided Hammond's decision to join Whitman's Board of Trustees. “I had the goal of moving the needle on diversity, being a part of the change.”

And this important work means more than sitting in meetings, he says. “It takes energy to be involved in the college in a way that helps you to understand the issues that are going on, versus when they are presented to you in a boardroom. If I am going to be at that table, I think it is really important to plug into the Whitman of today, to be engaged with students.

“It's been a real honor to serve the school in the various capacities that I have, and to create the collaborative opportunities and friendships that have come from that.”

“As you begin your life after Whitman, I encourage you to carry your experiences with you. Do not bury them too deep. Allow them to help you work on becoming a better person and to help others where you can.”

RETIREMENTS



After 39 years of federal service, **Monique Katrenick-Andre** retired to spend time with friends and family. Monique has been a tremendous contributor to the Earth System Processes Division (ESPD) over the last five years. Her extensive budget experience and analytical skills played a key role in the Water Mission Area (WMA) reorganization. Without Monique's experience and hard work, setting up ESPD as a new division would not have been nearly as successful. Many scientists have stated Monique's ability to help them with their budgets was a great help during the reorganization and allowed them to focus on their science. Congratulations Monique and best of luck in the future!

-**Sandra M. Eberts, Professional Hydrogeologist, Director, Earth Systems Processes Division**



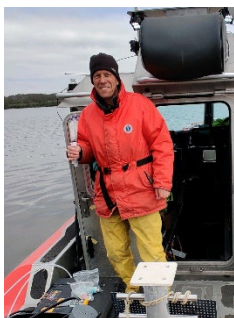
After 35 years with the USGS, **Barbara Bekins** retired on September 30, 2022! Please join me in congratulating her on her stellar career! Happily, Barbara plans to continue contributing to research on the Bemidji and Red Hill spills and the Water Quality Gap project as an emerita scientist. Barbara started as a computer specialist with the USGS Seismology Branch in 1982, where she was the system administrator and user consultant for computer systems monitoring California earthquakes. From 1988-1993 she attended U.C. Santa Cruz as a Ph.D. student with Professor Shirley Dreiss. Her thesis research used reactive transport modeling to understand biodegradation of groundwater contaminants (USGS funding) and processes contributing to the development of overpressures along subduction zone faults (NSF funding). She began working in

Water with John Bredehoeft, first as a graduate student, and then an EPA-funded post-doc, modeling solute transport and biodegradation in groundwater. She has continued this work collaborating with Isabelle Cozzarelli, Hedef Essaid, Mike Godsy, and Ean Warren to understand biodegradation of crude oil at the USGS crude oil spill research site near Bemidji, Minnesota. In the early 2000's she was part of the NAWQA Cycle II Agricultural Chemical Transport Planning Team and collaborated with Chris Green modeling the fate of agricultural nitrate contamination in the vadose and saturated zone. Most recently, she has been co-leading with Chris Green a project to identify gaps in water quality process knowledge and modeling capabilities (WQ Gap project). She is also serving as a Subject Matter Expert (SME) for the Navy on the 2014 and 2021 fuel spills that occurred at the Red Hill Bulk Fuel Storage Facility in Honolulu, Hawaii. Barbara has authored or coauthored 100+ journal articles, reports, data releases, or fact sheets and is a Fellow of the Geological Society of America and American Geophysical Union, and Member of the National Academy of Engineering.

-**Sandra M. Eberts, Professional Hydrogeologist, Director, Earth Systems Processes Division**

After 21 years with the USGS, **Alan (Al) Dillenburg** retired on August 27, 2022! Al started volunteering at the USGS in Oklahoma City, Oklahoma in 2001 and continued when he moved to Columbus Ohio. While volunteering, he worked on a variety of projects, but mainly collected water-quality and ecological samples in rivers and helped drill and install monitoring wells for the Great and Little Miami Rivers NAWQA (National Water Quality Assessment) program in southwestern Ohio. Al was hired in December 2001, as a Hydrologic Technician in the Data Section to measure stream discharge and work records. He feels lucky to have gotten to work all over the state of Ohio. Later Al expanded into operating, maintaining, and working the records for water-quality monitors at three sites around the Columbus area. He enjoys the independent work, challenging electronics, working outside, and cheering on the Iowa Hawkeyes in Buckeyeland. Prior to moving to Ohio, Al worked as a Wastewater Treatment Plant Operator in Iowa City, Iowa, and after moving to Oklahoma City, Oklahoma, he worked as an Environmental Safety Officer at Tinker Air Force Base overseeing the removal of asbestos and lead paint from a 40-acre building on the base. Later he worked for a private asbestos and lead paint abatement company where he was vice-president in charge of regulatory compliance and safety and training for asbestos removal jobs in Oklahoma, Louisiana, Missouri, Colorado, Texas, Puerto Rico, and Trinidad. He was responsible for fitting workers with respirators, arranging for training and certification of workers, OSHA and state regulatory compliance, and took all of the contractor tests for the company to be licensed in various states, territories, and countries. Al has a bachelor's degree in General Science from the University of Iowa. His daughter lives near Sanger, Texas and he lives with his wife, Donna Runkle (also a USGS employee), on a 6-acre farm near Johnstown, Ohio where they raised pet chickens, herd cats, ride bikes, garden, mow grass, and then mow grass again. They say that they have spent a small fortune of their money spaying and neutering feral cats that travel across the county to live in their barn. After retirement, Al and Donna plan to move to a retirement community in Colorado Springs, Colorado. Al can be reached at adllen4678@gmail.com or 614-595-0249. Fun fact! The photo of Al measuring stream discharge was used for a mural painted in the former USGS Columbus office lobby.

-**David E. Straub, Deputy Director & Science Chief, Environmental Health Section, Ohio-Kentucky-Indiana WSC**



After 23 years with the USGS, **Mark Dornblaser** retired on August 31, 2022! Mark started with the NRP in Rob Striegl's Boulder lab in 1999, studying greenhouse gas emissions from rivers and lakes. Between 2002-2004 Mark, Rob, and other NRP scientists sampled nearly the entire Yukon River by boat. His work on greenhouse gases in Alaska continued for much of the rest of his career, working at Pilot Station near the mouth of the Yukon River during ice out, sampling interior Alaska lakes under ice, and installing sensor packages for CO₂ and water quality at five sites across Alaska. He also installed CO₂ sensors at the five WEBB (Water Energy and Biogeochemical Budgets) sites. Mark's most unforgettable trip with Rob was traveling to eastern Siberia. Just getting to the Northeast Science Station in Chersky was an adventure, and Russian-style delays meant less sampling than planned, but it made for a great story. After Rob became Emeritus, Kim Wickland took over his project, and she and Mark had many other

field studies in Alaska, Wisconsin, and Minnesota, along with recently boating the entire Illinois River from Lake Michigan to the Mississippi on the Water Quality Processes Program-IRB Project, sampling greenhouse gases in real time. Mark wasn't just a field guy – he analyzed samples for greenhouse gases in the lab, managed project databases, and was author or co-author on 30+ journal articles, data releases, and fact sheets. Most importantly, he has made many great friendships with colleagues in the USGS and across the country, and he hopes to keep in touch. In retirement Mark plans to travel, hike, bike, and continue working on his photography and poetry.

-Sandra M. Eberts, Professional Hydrogeologist, Director, Earth Systems Processes Division, USGS, WMA

Please join me in congratulating **Krista Dunne** on a long and successful career at the USGS! Today (September 30, 2022) is her last day in the Geo-Intelligence Branch of the Integrated Modeling and Prediction Division. Krista had an immediate impact in this unit serving as a coordinator of atmospheric data development. She played a critical role contributing towards the development of a comprehensive hydroclimate science plan that can serve as a unifying foundation for much of the modeling that the WMA and the whole Water Enterprise plans to do. She led the team that's publishing, documenting, and analyzing the new CONUS404 climate forcing dataset, and has been an important scientific partner in the WMA-NCAR collaboration. Prior to this work, Krista already had a career's worth of experience and contributions. Until recently, Krista was assigned to a National Research Program project collaborating with NOAA's Geophysical Fluid Dynamics Lab (GFDL) and their climate-modeling group in Princeton, NJ. In that position, she created and managed some of the hydrologic pieces of the world's premier climate models, ensuring that the land component of those exceedingly complex models would play nicely with the ocean and atmosphere components. Results from GFDL's climate models have played a central role in the scientific assessments of climate change by the Intergovernmental Panel on Climate Change, which, in turn inform international policy on climate change. When she was not coaxing climate-model parts to cooperate, Krista was co-authoring numerous USGS papers that explored the workings of the water cycle, especially in its dance with the climate system. In those investigations, Krista always displayed her talent, dedication, helpfulness, efficiency, and scientific integrity. Krista's presence was, without a doubt, a key factor in the success of the USGS project at GFDL, as well as HyTEST. Krista has graciously offered to keep working with us for a little longer as a volunteer to help complete some of the important work she's started. Although she won't be taking on new topics, feel free to reach out to an excellent colleague.

-Roland Viger, PhD, Chief, Branch of Geo-Intelligence, Integrated Modeling and Prediction Division, WMA

Jana Iverson is retiring! With both joy and sadness, I'd like to announce that Jana Iverson is retiring after 34 years of dedicated service. Her last day was July 29, 2022. Jana is native to Colorado. She graduated from Metro State University in May 1988, where she was captain of the Women's Swim Team. Jana was hired on with the USGS at the NWQL as a student hire in the summer of 1988 at age 22 and transitioned to full time career chemist in the fall of 1988. She began as an organic wet prep chemist and enjoyed the days of doing wet chemistry in an old warehouse that was repurposed into laboratory. There are only a few folks left in the USGS that remember the old facility on Ward Road across the street from the Jolly Rancher Candy Factory. Many have fond memories of inhaling the sweet smell of Jolly Rancher-cherry-lime with a mix of hexane and methylene chloride. After two years in the wet lab, Jana moved to a position as an organic analyst interpreting gas chromatography/mass spectrometry data. In her early career, she was also a member of ASTM-D19, attending meetings in Florida and lucky enough to do occasional field work using the field GC- TCD, looking for plumes of volatile near airfields and gas stations in Denver, Wyoming, New Mexico, Utah, Missouri, and Georgia. During this time, she also co-authored several T&Ms. Jana says that working at the NWQL was like working with family. It allowed for both a career as a chemist and career as a mother. She transitioned from full time chemist to part-time chemist for 17 years, successfully raising two boys, a dog, and Todd (her husband of over 30 years). In 2013, she returned to full time employment as a lead chemist in LC-MS-MS. In 2019, Jana transferred from the NWQL to the Quality Systems Branch where she

became as dedicated the Organic Blind Sample Project as she was to her previous laboratory work. Her ability to transfer laboratory knowledge to the assessment of organic data was invaluable. She attributes 34 years with USGS mainly because of the 'family' atmosphere and the commitment, dedication and intelligence of her fellow colleagues made it all worthwhile. Retirement will begin with all that Colorado has to offer- hiking, rafting, camping, 'moosen', snowshoeing (with Todd), and some 'easy' swimming (without Todd!). Jana is one of the most joyful people that many of us have had the pleasure to work with. She is a true lab rat that was most comfortable being around instruments, vacuum pumps, autosamplers, and data! Her dedication to the USGS, the data, her customers, and colleagues was extraordinary. She will be missed more than she knows.

-James Simmons, Chief, Quality Systems Branch, NWQL, Lakewood, CO



Brady Long has been with the USGS in South Carolina since 1987 and has been based in Charleston SC since 1992. Please read more about his career below. Hurricane Ian is forecast to hit the SC coast on Brady's last day on the job. He's always had good timing. Brady, USGS Field Office Chief for Charleston, SC within the South Atlantic Water Science Center, and long-time hydrologic technician is retiring on Friday, September 30, 2022. Brady began his career with the USGS in Columbia, SC, in 1987 after graduating from the University of South Carolina. His first day on the job, he made the rookie mistake of filling his chest waders upon entering the water to make his first measurement, but thankfully things did

improve from that day on, and his career flourished. In 1992, he transferred to the newly created Charleston Field Office located at the Sullivan's Island lighthouse, perhaps the only beachfront field office within the USGS. There he participated in data projects such as hurricane storm surge sensor deployments, high water mark campaigns, 12-hour tidal cycle measurements with dye studies, flood measurements, low-flow data assessments, and chasing rain for a BMP study. Brady's field trips were comprised primarily of boat-only access sites that required him to spend multiple days on the water servicing gages. As a result, his boating expertise grew and was recognized as a strength that he could pass on to other colleagues. He soon became an instructor for both the Motorboat Operator Certification Course (MOCC) and Motorboat Operator Instructor Certification Course (MOICC) and has taught DOI personnel across the country since 1998. In addition to his national work with watercraft safety instruction, he was also asked to serve on the regional Committee for Hydrologic Instrumentation and Data, Eastern Region (CHIDER) in 2010, which soon led to his six-year participation in the national data committee, Hydrologic Data Advisory Committee (HDAC). He was a member, chair, or co-chair on the planning teams for the data conferences and training workshops held in Pittsburgh, Jacksonville, Spokane, San Antonio, Columbus, and Phoenix (unfortunately canceled due to COVID). His involvement in planning and implementing these events are among his most rewarding experiences during his tenure with the USGS because they offered field personnel and others valuable training, technology exchange, networking, and team building. As a result of Brady's decades of field experience, watercraft safety instruction, and regional and national committee work, in April 2020, he was selected as the Charleston Field Office Chief. In this role, he has supervised Team Charleston and guided them through the difficult pandemic years. He credits his team for their unwavering perseverance and camaraderie despite many obstacles in their path. Brady acknowledges that his professional relationships with Team Charleston and what they accomplished together will stand out as the highlights of his 35+ year career. He would also like to thank the many other USGS colleagues who have been positive influencers on his professional and personal life. He greatly appreciates your help and friendship over the years and will enjoy many great memories of days on the water, in the field, and event planning. Brady and his wife, Kelly, will spend their retirement years on Edisto Beach in the low country of South Carolina. He hopes his USGS family will visit to cast a line, tee up a golf ball, or relax on the beach while enjoying the beautiful ocean view. He will be missed by all here at SAWSC. Thank you for your service, Brady!

-Vic Engel, PhD, U.S. Geological Survey, Director, South Atlantic WSC



John McCranie, Hydrologic Technician, Tifton Georgia Field office retired in late July 2022. John began working with the USGS in June 1990 at the Georgia District Office in Atlanta. He operated an urban field trip under the supervision of Joe Inman. The network consisted of several stage and precipitation stations that stored data on paper tapes, at a 5-minute interval. This work required storm chasing on numerous late nights. He worked diligently with others in the office to ensure that data was complete and accurate. Following completion of this project, John worked on the NAWQA project collecting intensive weekly and monthly samples at numerous

stations in the Atlanta field area. John continued working on this project until the scope of the sampling changed. Around 1995 John transferred to the Albany field office and began collecting groundwater data for the Studies section in Georgia. He operated a very large network of continuous water-level monitoring wells for many years and

participated in numerous areal water-level and well-sampling efforts as part of many different studies. John also helped with surface-water data collection during low flow runs and flood measurements. John transferred to the Tifton office around 2005 and continued to maintain the groundwater network and assisted with discharge measurements and gage construction. In 2016, John began operating a field trip that consisted of surface-water and groundwater stations. John was instrumental in training his Tifton colleagues in groundwater data collection procedures and worked diligently to improve his knowledge of surface water data collection. John continued to be the point for groundwater data collection in Tifton and his efforts to re-learn long forgotten surface water knowledge was much appreciated by his fellow Technicians. John will be enjoying his retirement playing golf and spending time with his family. He wishes the South Atlantic Water Science Center well in the future. John will be missed, most especially in Tifton. We wish him well in his retirement.

-by **Chris Smith**, John's supervisor for the last several years

Please join the Integrated Modeling and Prediction Division (IMPD) in extending best wishes to **Chris Milly** who retired from his nearly 35-year career with the USGS on September 30, 2022. Chris got his start with the USGS, way back in the 1970s, as a summer student mentored by John Bredehoeft. For that assignment, he sat in the 5th floor-A-stack bullpen at the National Center, where the partitions, which were pegboard electrical-analogue groundwater models, divided the space among him, Paul Hsieh, and Chris Neuzil. After graduate school, Chris tried his hand at academia but happily returned to the National Research Program six years later, having realized, like the prodigal son, that there was no place better to be. Since that return in 1988, he was stationed at NOAA's GFDL climate lab in Princeton, NJ, where his research project, soon joined by Krista Dunne, addressed a diversity of puzzles in the hydroclimatic realm and contributed on the hydrologic front to the construction of multiple generations of climate and earth-system models. In recent years, Chris has turned his research increasingly toward process understanding of long-term hydrologic trends. He considers such understanding to be a necessary condition for making responsible projections of hydroclimatic change, and he's not sure we hydrologists know how to do that yet. In the years ahead, while Chris will continue his hydroclimatic research, he hopes also to get out with his partner Sara to make friends with more creeks and rivers (and maybe even humans) in the real world. Chris plans to continue contributing to the Integrated Water Prediction Predictive Understanding of Multiscale Processes (PUMP) project as a scientist emeritus. Chris will most likely retain his USGS email address, but he's also always reachable at chris.milly@gmail.com for personal communications. Chris is a thoughtful and prolific scientist. He has published hundreds of journal articles, USGS reports, and data releases, is a Fellow of the American Meteorological Society and American Geophysical Union and has served as a contributing author and/or reviewer for the 2nd through 5th Intergovernmental Panel on Climate Change Assessment Reports.

-**Matthew Miller**, Research Hydrologist Chief (Acting), Earth Systems Modeling Branch, Boulder, CO



After 34 years at HIF, **Ed Parrozzo** retired on September 30, 2022. Over his dedicated career as an Electronics Technician, Ed has supported many instrumentation projects, evaluations, and training courses. Ed's knowledge, expertise, excellent customer support and stellar work ethic have contributed to many of HIF's offerings to the field: Rapid Deployment Gages (versions 1-6), SDI-12 rain gages, DCPs, power equipment, and many more. Ed visited many field offices throughout the country in the 1990's to perform upgrades on the BDR 301. Field technicians may best remember Ed from the 20 years he has worked as an instructor for the HIF's Basic Electronics and Troubleshooting and Satellite Data Collection Platform training classes for the past 20 years. Ed's support to the HIF will be greatly remembered as Safety Officer, Building Manager and most of all,

his friendship. Please join us in congratulating Ed - May you have a long, healthy, and happy retirement with your wife, children and grandchildren. Safe travels!

-**Janice M. Fulford**, Director, Observing Systems Division, Water Mission Area, Office of Chief Operating Officer, U.S.G.S., Stennis Space Center



After 44.99 years with the USGS, **Donna Runkle** retired on July 30, 2022! Donna is hanging up her boots and retired 2 days shy of 45 years with the USGS. She is grateful for the many wonderful opportunities she's had and all the incredible people who have helped her along the way. Below are some of the things that she has gotten to do over the years. Iowa: Donna was hired by the USGS office in Iowa City, Iowa, in 1977, because she answered yes to a key interview question, "Are you a farm girl?" She drove around northwestern Iowa, field locating water wells in which soil and rock samples had been collected by the driller every 10 feet. After graduating from the University of Iowa with a BS in Geology, she was converted to various types of appointments and job titles and during this time, Donna field inventoried wells, measured

water levels, and entered hydrologic and water-quality data into computer data bases. (Remember IBM punch cards anyone?) She served as on-site hydrologist during the drilling, construction, and aquifer testing of a 2,800 foot well. Oklahoma: In 1985, Donna transferred to the USGS office in Oklahoma City to work on several ground-water-quality and GIS projects. She designed water-level, water-quality, and water-use data collection networks; drilled test holes; mapped hydrogeologic units; collected samples to determine the distribution of major and trace chemical constituents, and pesticides; and measured aquifer properties for the Rush Springs-Marlow aquifer and Blaine gypsum-dolomite karst aquifer. For the Altus Air Force Base Installation Restoration Program project, using a field gas chromatograph to measure the concentration of VOCs in water samples, the project team was able to clearly define the boundaries of several large plumes while being amazed that the huge C-5 and C-141 cargo planes were able to get off the ground, let alone stay in the air. Through the USGS Graduate Student Training Program, Donna attended Oklahoma State University (the other OSU!) for 11 months, taking classes in environmental and organic geochemistry, field biology and ecology, ecotoxicology, limnology, trace elements in the environment, and geochemical models and graduated with a MS in Geology. She is especially proud of the photo she took of Bob Hirsch, former USGS Water Resources Director, in front of the U.S. Capitol building giving a news conference to reporters about the importance and value of USGS streamgages. Ohio: In 2001, Donna transferred to Ohio to be the ground-water specialist for the Great and Little Miami Rivers Basins NAWQA (National Water Quality Assessment program) project in SW Ohio and SE Indiana, drilling and constructing 31 monitoring wells and collecting samples from wells. Later she worked with Michigan USGS folks on the Lake Erie-Lake Saint Clair Drainages (LERI) NAWQA project, drilling and constructing monitoring wells, and collecting samples from 62 wells. For another National NAWQA report, she sorted out nine types of age-dating data for more than 50 Study Unit well networks by matching scanned analyses and data in spreadsheets with data retrieved from NWIS data bases and NAWQA Data Warehouse to archive on the Web. In 2013, Donna became co-project chief of the Western Lake Erie Basin (WLEB) in NW Ohio, which started with seven streamflow gages. In 2020, Donna started a phased retirement and “phased out” of the leadership role leaving the project to be led by two very skilled and capable scientists who head up a talented team of devoted scientists. Donna lives with her husband, Al Dillenburg (also a USGS employee), on a 6-acre farm near Johnstown, OH where they raised pet chickens, herd cats, ride bikes, garden, mow grass, and then mow grass again. After retirement, Donna and Al plan to move to a retirement community in Colorado Springs, CO. Donna can be reached at dlrunkle1@usgs.gov or 614-595-0248.

-David E. Straub, Deputy Director & Science Chief, Environmental Health Section, Ohio-Kentucky-Indiana WSC

DIRECTORY

NEW MEMEBERS

Laustsen, Paul C. (A) – USGS Public Affairs, Menlo Park, CA

AFFILIATE LIAISON

Moran, Patrick W. (AL) (Teresa) – Maple Valley, WA (replaces Joseph Jones)

DIRECTORY CHANGES

Anderson, Steve W. (01) (Linda) – new address and phone no.

Buono, Tony (03) (Arlene) – new email address

Clark, Patricia A. ‘Pat’ (09) (Clair) – requested to be removed in 2021 as a member

Cohen, David A. (10) – new address

Emery, Philip A. (89) (Janet) – new email address

Kish, George R. (12) – new address and phone no.

Leenheer, Jerry A. (06) (Cora Jean) – new address, new phone no., email remains the same

McEwan, William S. ‘Scott’ (13) (Patrice) – delete landline phone number

Newcome Jr., Roy (80) – unable to find forwarding address from previous address – remove

Pufnock, Cassie (06) – new address, phone no., new email

Reid, Marjorie S. (86) (James) – passed away 01/2022, family requested she be removed from mailing list

Sloan, Charles E. (86) (Marilyn) – new address and phone no.

Walth, Deanna (03) – update directory with new address, new cellphone no. and email address

NEWS OF RETIREES

Merilee Bennett writes: After 10 years and forty newsletters, I have decided to retire as the Layout Editor for the Retirees' quarterly newsletter after the November 2022 issue. I would like to express my appreciation to the past board members, state contacts, affiliates, and the newsletter staff during these last 10 years. I have enjoyed the interactions as the Layout Editor with all the retirees. I would like to give a special acknowledgement to the current Editor (Jeff Stoner), the Regional Editors (Debbie McLean, John Clark, Jim Bennett, and John Klein), and the current board members. Especially Cathy Hill and Kate Flynn have worked tirelessly to support the retirees' organization. The current board members have worked hard to recognize the history of the old WRD and pass on the path of the new Water Mission Area. Jim and I have sold our house in Lakewood on the thought of downsizing (as I'm sure most of you who have gone through this process knows it is not an easy job). We are moving into a patio home about 6 miles from our present location. As empty nesters' we would like to do more traveling around the US as well as outside the US. Thank you for letting me step into your lives, and Jim and I send our best wishes to you to stay healthy and happy.

Steven Curtin writes: Keep up the good Job on the newsletter.

Dave Erdmann writes: I appreciate all the work you do to keep us informed.

Kate Flynn writes: Some members may find this Story Corps clip interesting. Carolyn Shoemaker talks about how she got into astronomy and how her husband Gene Shoemaker ended up on the moon.

<https://storycorps.org/stories/carolyn-shoemaker-and-phred-salazar-160708/>

Joseph Gorman writes: Thanks for the newsletter, it's great. The 30-year anniversary of the 93 flood begins next summer, maybe there will be some stories from those of us that were part of that event.

Sharon & Rick Goss write: Hello fellow retirees. Since we owe dues, it prompted us to also send some news. COVID hit just as we were getting out and about discovering Oregon after our move here in 2019, so we have stayed close to home and concentrated on our yard. Our first year was spent removing invasive weeds such as ivy and blackberries and our property is now gold certified as a Backyard Habitat. Thankfully, a previous owner was a Master Gardener; however, the next owner did some damage to plants, and we had to remedy that. This summer, in addition to adding new native plants, weeding, maintaining, etc., we removed all the grass from our front yard and replaced it with plants and a rain garden with two downspouts draining into it. We also added two fruit trees to our back yard. We have two rains barrels and use that water mostly to fill our water feature (false creek) in the back yard. We 'enjoy' working in the yard, so we did all the work ourselves at a retiree's pace, of course. Last year, we added livestock tanks to create a raised vegetable garden. Growing vegetables in Oregon is definitely not the same as growing them in southern Indiana – shorter season and fewer results. Kyla (our daughter) and I enjoy hiking, so we try to do several long hikes during the year. Thankfully, there are many great trails very near our homes, so we don't have to spend most of the time driving just to hike. Counting the grand pup, we have four geriatric dogs which create challenges. Two are deaf, one has dementia, and one is just stubborn and ignores us. Rick and Kyla have started golfing and both now have their own starter clubs. We are still very happy with our move to Oregon. Recently, Dave and Mancy Mau were in Oregon, and we had a wonderful time sharing some beverages, food, and conversation. If you are visiting the Portland area, please get in touch as we would love to visit with fellow retirees.

Steven Grady writes: My best to all my former colleagues and all USGS compatriots. I look forward to each issue of the newsletter. Regards.

Marty Gurtz writes: Thanks for the efforts you and others are doing for the retirees' group.

Doug Harned writes: I have decided that the world is not made up of atoms, of quarks, but instead it is made up of very small question marks. I hope y'all are having as much fun in retirement as I am. I spend much of my time playing with my 5-year-old grandson Orion, who likes to leap from furniture, and who developed the so called "Orion Index", an algorithm used to assess the range of silliness in any person or situation. The algorithm is secret and complex but believed to be in base 20. I am 20202020. I'm writing a book about the making of a film I never made. I recently went fly fishing with Tom Cuffney in Missoula. No fish were caught. Wife Diane and I are off next week for a month-long mid-continent tour of art museums. No fish will be caught. My work/life balance is heavy on the life side.



Keith Kirk writes: In retirement I am pursuing my passion for photographing the night sky. Pete Anttila suggested I share this with the retirees for the next newsletter. This photo was taken July 23, 2022, at Shark Fin Cove, near Davenport, CA. From planning to completion this photographic project took two weeks and multiple trips to obtain the images at the optimum times. Got skunked on two occasions as the location was fogged in upon arrival and almost skunked literally by three skunks in the yard when I returned home near midnight on the 23rd. The final night of the shoot I did not anticipate fending off heavily inebriated revelers returning from the beach from staggering into my tripod and gear. Next time I do a beach shoot it will be during the week to hopefully avoid the drunks.

Gary Paulachok writes: Earlier this week, I had a passing thought about **Paul Moleski** and did a web search to see what he was up to. I was frankly shocked to find that he passed away in July 2022. I believe he started out with the WRD in Wichita Falls, TX following his USAF hitch, but I'm not 100 percent certain. I met him in 1978 (my entrance on duty date) while we were stationed in the WRD Philadelphia Subdistrict office. I worked with him, and learned streamgaging techniques under his guidance, during most of 1978. He was patient to a point with me and several other new hires, but he didn't suffer fools gladly. I'm grateful I had the opportunity to get to know him and his family. May he rest in peace.

Al Rutledge writes: After a long time staying close to home, Anne and I had a delightful vacation in Iceland this August. The place is fantastic! Waterfalls, lava tubes, hot springs, and views that seem like another planet. Before that, our last trip overseas was Scotland four years ago and we hope to get back there sometime in the future. Maybe a train excursion. We continue to enjoy life in Chapel Hill. And it's good to see the UNC campus is busy again, after covid. I intend to get back to certain artistic pursuits but need to get motivated! I appreciate the work that is done to maintain the retirees' organization. The newsletter is great reading. Please keep up the good work, Thanks!

Lamar Sanders writes: Thank you so much for the newsletter.

Stephanie Searle (Stan Sauer's daughter) writes: Hi Herb - Dad has had a rough couple of months and is now on hospice care at Hill Country Memorial in Fredericksburg. He is being given comfort care and is in good hands. Please feel free to pass this on to others. He appreciates your many years of friendship and wanted us to let you know! Thanks

Pat Tucci writes: On September 19 I paid a visit to the Central Point, Oregon field office of USGS. The office is close to where our daughter lives and we were there to celebrate our grandson's first birthday. While at the office I met with the office chief, Randy Spitzer, and met with one of the technicians to tell him a bit about our scholarship program and answer a few questions that he had about the program. I encouraged him to apply for the program next year.

Jack Weeks writes: Judy and I transferred to Denver from Anchorage in 1972 after graduate school training. Gene and Pat Hampton were one of the first couples we got to know. They invited us to their home in Golden for dinner and Gene drove us around the area to show us numerous housing developments where we might be interested in living. It was of great assistance to us and before long we had a contract on a home not far from the Federal Center. A few years later, Gene had transferred to Reston, and we lost touch. In 1988, I was contacted by the International Hydrology Office and asked if I would represent the USGS on an international mission to China sponsored by the American Association for Advancement of Science. I, of course, said yes. Shortly after receiving information from Reston on the trip and being contacted by AAAS, I got a call from Gene Hampton. Gene had heard that I was going to China and wanted to ask a favor of me. For some reason, Gene wanted two cloisonne vases. Having been good friends while he was in Denver, I really couldn't say no; in fact, it didn't occur to me to say no. A few weeks later, I was in Reston, and we got together over lunch. I didn't know what cloisonne was so I asked Gene how I would know what he wanted. Gene showed me some pictures of what he wanted. He was willing to pay no more than \$300 for the two vases but they had to be 18 to 24 inches tall. He said that he was going to convert them to table lamps. Well, I went to China with the group organized by AAAS. We visited Beijing, Tianjin, Qingdao, and Jinan. We were escorted, met with water resources officials in each city, and treated royally. It was a wonderful experience. At every opportunity I tried to find cloisonne vases like Gene wanted. In the last few days before we were to return to the US from Beijing, I talked with our Chinese hosts about my interest in cloisonne and they took me to a market in Tianjin. There I found cloisonne vases of the right height and price with the help of my Chinese friends. I immediately realized that the vases were fragile, and I wasn't about to trust them to be shipped home, so I decided to take them with me. The box was 12x18x24 inches. I carried the box with me on the trip home as my "carry-on" luggage. Gene was thrilled with what I had brought home for him.

I have often wondered if he ever converted those cloisonne vases to table lamps. Does anyone know? If you know what became of them, please let me know. I am hoping that they were one of Gene's prized possessions....Jack Weeks

MEETINGS AND GATHERINGS

Atlanta, Georgia Area Retirees' Lunch Meeting August 17, 2022



Left side (front to back): Julia (Fanning) Mason, Helaine Markewich, Brian McCallum, Ed Martin.

Right side: Mark Landers, Elliott Jones, Eve Kuniansky, Michael Peck, Jeff Armbruster, Keith McFadden

Central Region Retirees' Luncheon October 13, 2022 Olive Garden Restaurant Golden, CO



Table 1 (left side): George Garklavs, Juan Vasquez, Shirley Hidalgo, Carole DeHerrera, Jim Blakey, Paula Blakey, Jim Bennett, Merilee Bennett, Janice Ward, Lee Case

Table 2 (right side): Judy Weeks, Jack Weeks, Dave Lystrom, Karen Lystrom, Anita Livingston, Russ Livingston, Betty Palcsak, Mary Kidd, John McLean, Peter Griffiths, Matt Ely

Present, but not included in the group picture: Judy Cornwell

Speakers: **Peter Griffiths**, Regional Director, Rocky Mountain, USGS Water Mission Area in the Rocky Mountain Region and **Matt Ely**, Director, Colorado Water Science Center

Of Note: *Jim Blakey celebrated his 90th birthday the week before our luncheon*

Photographer: George Garklavs

**Missouri District Retirees Picnic
Rolla, Mo.
September 22, 2022**



After a long break, Missouri District Retirees and spouses gathered for a picnic lunch and lots of catching up.

Seated L to R: Horace Jeffery, Evelyn Waite, John Skelton, Jim Barks, Barb Wessner, Jerri Davis, Patti Barks, Sue Price, Nelda Reed

Standing L to R: Marlene Kleeschulte, Mike Kleeschulte, Teresa Mugel, Doug Mugel, Loyd Waite, Don Spencer, Tom Mesko, Dale Blevins, Leon Reed, Bob Holmes, Gary Alexander, Debbie Alexander

Ohio Retirees' Luncheon



The Ohio office current employees hosted a retirement lunch for retiring Donna Runkle (44.99 years) and Allen Dillenburg (21 years) who will be moving to Colorado. A few of the already retired also joined the fun:

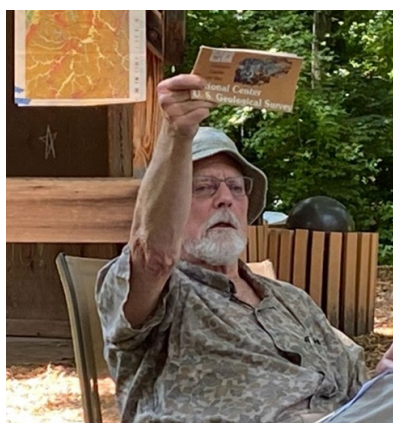
L to R: Janet Welday, Jim Morris, Donna Francy, Martha Jagucki, Denise Dumouchelle, Dave Reutter, Steve Vivian, Bill Yost, Al Dillenburg, Donna Runkle, Allison Kunze

Virginia Retirees (Three lunches reflected)

Reston, VA

July 11, 2022

The Reston Retirees enjoyed a balmy lunch in the park. Jim McNeal, well known Geochemist, spoke on Fascinating Features and Curiosities of the Geology of Northern Virginia. Lively discussion ensued. A good time was had by all.



Left – Jim McNeal

Right – Standing (L to R): Tony Meunier, Dave Morganwalp, Lenny Konikow, Ken Lanfear, Sandy Clark, John Keith, Jim LaBaugh, Kathleen Gohn, Steve Shindler, Pat Leahy, John Repetski, Kate Schindler, Ann Schindler, Jim McNeal; **Front, left to right:** Frank Manheim, Lee De Cola, ?, Sue Marcus (missing from picture), Mary Jo Baedecker, Susan Russell-Robinson & Kate Flynn

Temporary Road Park

August 1, 2022

Robert Mason shared his beekeeping experiences.



Temporary Road Park

September 12, 2022

Jim Devine spoke on The USGS role in the siting of nuclear power plants.

Washington Retirees Summer Picnic (August 2022) Hosted by Gil & Marelene Bortleson



Attendees (L to R): Gil & Marlene Bortleson, Karen & Rick Dinicola, Norm Dion, Gary Turney and wife Sue Webb, Greg Justin, and Denny Cline.

**Wisconsin Retirees' Luncheon
(Two luncheons – no dates reflected)
Photos by Charlie Peters**



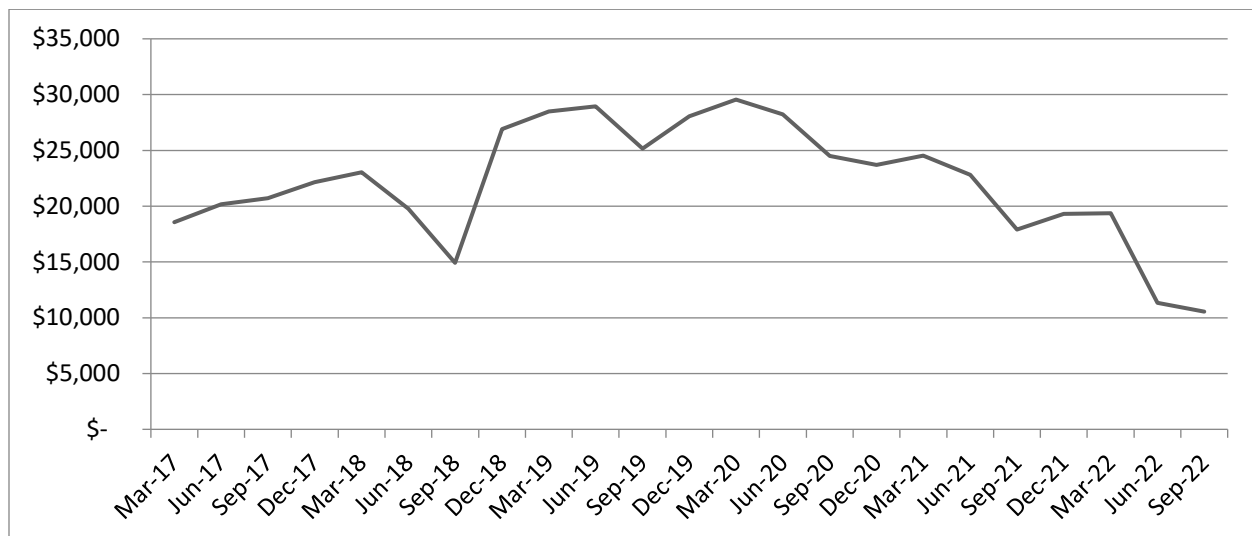
Left to Right: Nick Hanson, Gerry Goddard, Tom Wittwer, Dave Graczyk, Dan Olson, Herb Garn



Left to Right: Steve Field, Jane Field, Peter Hughes, Bill Rose, Julie Wilf, Jeff Steuer, Dan Sullivan

TREASURER'S REPORT, THIRD QUARTER 2022

Treasurer Cathy Hill reports the organization had \$10,550 at the end of the third quarter, 2022. Special thanks for contributions above dues to Kate Flynn and Stan Sauer. Many thanks for your generosity. These contributions are a great benefit to our Scholarship fund. For those of you who sent us checks in August, those donations will be reflected in the 4th quarter report.



Note from the Editor

Contributions to Memorial write-ups. Lately the editorial team has experienced many contributions of tributes to include in memorials of our passing colleagues. These can add personal value to these reports. For our sanity in editing, however, please contact me, Joanne, or your regional editor (see front page contact information) to help coordinate such contributions. If you learn about a passing after a posted memorial, consider including your tribute in the "News of Retirees" section. Sincerely, Jeff Stoner

MEMORIALS



Ann Arnett, 89, passed away peacefully at her home in Pierce Township, OH on August 24, 2022, with family by her side. Ann was born in Columbus, OH to the late Albert and Anna Buehler and lived her life in Columbus and Canal Winchester until 2019 when she moved to Cincinnati. Ann retired from the USGS in Columbus, OH where she was the Public Relations Officer, frequently producing reports for very appreciative Ohio State students. Other than family, Ann's life-long passions were quilting and The Ohio State Buckeyes. Every family member and friend, including Wendy's workers, were the lucky recipients of her lovingly made quilts. She thoughtfully selected the NFL teams to root for by the number of former Ohio State Buckeye football players on their team. She was the loving wife of Daniel Arnett, for 62 years, who preceded her in death in March 2016. Ann is survived by her daughter and son, five grandchildren, and her six great-grandchildren, who called her Grandma Great. Ann's funeral mass at St. Thomas More Church was held on September 3, 2022. Ann will be laid in her final resting place, next to Dan, at St. Joseph Cemetery, Lockbourne, OH, later.



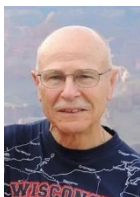
Craig B. Bentley, 91, passed away on July 20, 2022, in Grand Junction, CO. He was born October 26, 1930 in Tooele, UT. He graduated from Carbon High School, Price, UT in 1948. He was in the US Army, active duty 1954 to 1956 and in the reserves until 1962. After earning a BA, MA in geology, Craig joined the USGS as a Geologist in 1960, Conservation Division, Great Falls, MT. He took a year for post graduate work in hydrology at the University of Arizona, returning to the USGS in the Water Resources Division, Kingman, AZ in 1964. During his 30 years with the USGS, Craig also worked in Phoenix AZ, Pago Pago Am Samoa, Jacksonville FL, San Juan PR, Jackson MS, Denver CO. He finished his career in Las Vegas NV in the Branch of Nevada Nuclear Waste Storage Investigations (NNWSI) retiring 1990. Craig continued to work in the private sector for ten years including a year (June 1999 to June 2000) for USAID in Gaza. VaDonna and Craig moved to Grand Junction, CO in 2012 to be near family. Craig loved the outdoors. He once told a grandson that he became a geologist so he could work outdoors. He loved to hike, camp, and run. He ran 4 miles every other day most of his adult life and was active in running and race-walking competitions into his 60's. When he couldn't run anymore, he walked. Craig was still taking long walks and working out in the gym until he was 85. He is survived by his wife of 35 years, VaDonna McKim; his five sons, two daughters, three stepdaughters; a whole slew of grandchildren and great grandchildren.

Thomas E. 'Tom' Behrendt passed away in June 2022 at his cottage on Lake Huron in Michigan. Tom worked as a Hydrologist in the Pennsylvania District and in the Network Section, Michigan District, Lansing, MI. He retired from the USGS in December 2005. He is survived by his wife, Debra, and by a daughter. A memorial service for Tom was limited to family and close friends.



Martin B. 'Marty' Coll, Jr., 83, of Shaler Twp. PA, passed away on Thursday, July 16, 2020. Martin retired from USGS in 1999. Beloved husband of 58 years to May (Hubbard) Coll; loving father of three daughters and a son; proud pappy to five granddaughters and three grandsons; dear great-pappy to four great-granddaughters and one great-grandson. A Funeral Mass was held to celebrated in St. Bonaventure Church, Glenshaw, PA.

Kent Elrick passed away in August 2022. Kent worked for the USGS as an Analytical Chemist from August 1982 to May 2013 when he retired. He became a Consultant for Georgia State University after retiring from USGS and worked part-time with FEMA.



James "Jim" George, 77, passed peacefully at home on March 3, 2022 in Wausau, WI. His family was by his side. Jim was born in Columbia, SC to William and Eloise (nee Howell) George. Jim graduated from Eau Claire High School in Columbia, SC in 1962. He earned an associate degree from Midlands Technical College. Jim worked for a civil engineering firm surveying traffic patterns. He had to make a decision for his career path. His brother Fred was already working for the US Geological Survey and encouraged Jim to apply. He joined his brother at the Survey and worked there from 1967-1997. Jim married Trudy Laffer in

1967 and they shared four children. Jim had an opportunity for a promotion and the family moved to Merrill, WI in 1975. He loved fishing there and the change of seasons. He learned to endure the winters. In 1989 Jim married Susan LaMarche. Jim welcomed Sue's grown son into the family. Jim and Sue had 32 blessed years together until his passing. In recent years, Jim was thrilled with the arrival of grandchildren and was able to meet the youngest one born just six weeks ago. Jim was a great husband, father, grandfather, and friend. Jim loved family time and it was great if one or more of the children could watch a Green Bay Packer game with him. He loved to watch all football but especially those Packers! Jim also belonged to a couple of coffee groups and always looked forward to the camaraderie with his friends. Jim loved to take long walks, and he appreciated the simple things in life. His faith was important to him, and he was a member of Bible Presbyterian Church for over 40 years. Jim had many aunts, uncles and cousins growing up and had fond memories of their get-togethers with pig-pickin', shucked oysters, "bald" (boiled) peanuts and other wonderful Southern food. He also loved spending summers with a childless couple who were friends of the family, helping them bring in their crops. Jim would tell us that while working in the fields on terribly hot summer days, there were so many watermelons around that he would often just crack one open to drink the juice to cool off and wash his hands. Jim will be sorely missed by his wife Susan and children: a daughter, three sons, and stepson. He is further survived by three granddaughters and one grandson. He was preceded in death by his father, William "Bill" and mother, Eloise. A service was held on March 11, 2022 at Bible Presbyterian Church with the service at noon and a luncheon to follow. Pastor Andy Perry officiated. There will be a separate service for Jim in Lexington, SC at a later date where he will be laid to rest with his father.



Timothy W. 'Tim' Hale, 75, of Toccoa, GA, passed away on July 21, 2022, from complications of myelodysplastic syndrome. His illness was short, and he will be dearly missed by all who knew him. Tim was the son of the late James and Christine (Edmunds) Hale. Tim grew up in Toccoa, graduating from Stephens County High School in 1964. While in high school Tim met his future wife Katie while working together on a summer job in the cafeteria of the Toccoa Baptist Encampment. While a student at Georgia Tech, Tim began his 40 plus year association with the USGS as a cooperative education (CO-OP) student in the Georgia District. Upon graduation from Georgia Tech in 1969 with a BS degree in Civil Engineering, Tim began working full time in the data section in the Tifton, GA office, collecting rainfall/runoff data for a rainfall/runoff modeling study for computing flood frequency for small drainage areas, and moved back to the Atlanta office in 1972. In

1975 Tim and his family transferred to the Kentucky District, where he was a project chief on surface water studies. In 1979 Tim transferred back to Georgia to work on an estuary study for the Kings Bay submarine Base near Kingsland, Georgia and to become Data Chief for the Georgia District. In 1991 he became the Georgia District Chief. In 1998 he moved across town to the Southeast Region to become the Regional Program Officer where he served until retiring in 2004. Tim took great joy in his work and will be remembered fondly by all his colleagues. Tim was a long-standing member, deacon, and Sunday School teacher at his Church in Lawrenceville, GA, and after retirement at his church in Toccoa, GA. His civic interests included working with Keep Toccoa Stephens County Beautiful and Tugaloo Bend. He loved bluegrass and gospel music, reading, painting, canoeing, hiking, traveling, fishing, and telling great stories. Tim is survived by his wife of 53 years, Mary Kathryn Hayes (Katie), a daughter and a son, their children's spouses, two granddaughters and two grandsons. Funeral services were held on July 24, 2022, at the First Baptist Church of Toccoa, GA

Jeff Armbruster, writes: Tim Hale was a trusted colleague and is possibly one the finest men I have ever known. Not only was he technically talented, but he was also a gifted leader-manager. His sense of humor was remarkable. But beyond those, Tim was a deeply humble man and devout Christian. All of his relationships were guided by his spiritual core – he treated everyone with kindness and respect. I will miss him as a friend, as will everyone who ever knew him. Tim's funeral was beautiful. We have lost a dear friend and great man.

Jared Bales, writes: What great tributes to Tim Hale! His presence indeed always was a pleasure!

Herb Freiburger tells the story of he and Tim Hale both working in KY. The District Chief sent Tim on a road trip around the state, so he would be gone for a while. He said as long as he was doing that he would rank the hotels he stayed at. The worst ended up being a hotel that had 2 TVs, one on top of the other. One for sound and the other for the picture. lol!

Dave Grason, writes: I loved Tim's deep southern drawl, and of course his sense of humor. One time you (Cathy Hill) passed on to me this shriveled old crab apple, or something like that, that Tim gave to you, and he called it the low hanging fruit.

Cathy Hill, writes: Tim Hale will be remembered for his competency and his sense of humor. It was so much fun working with him. Especially after we got turned into REXs! I remember during one of his Program Reviews Bonnie or Pam asked him which of his Districts was the best. Tim laughed and said, "I love all my children the same." Great answer.

Bob Hirsch, writes: It was always a pleasure to be in the presence of Tim Hale. I knew that I should listen to him and I knew he always had the best interests of the USGS at heart. I learned a lot from him and always appreciated his support. I hope his family knows how much his colleagues respected and enjoyed him.

Richard Kane, writes: Thanks for passing that information on about Tim.

John F. Kerestes, writes: Sorry about Tim.

Rick Krause, writes: I met Tim when he came down to the Brunswick field office to get some groundwater discipline training, chiefly, on data collection for the saltwater intrusion project. A couple of years later I transferred to the District office in Atlanta and we became fast friends, with shared interests in a variety of activities, such as backpacking, tent camping, canoeing, Bluegrass festivals, small-venue concerts (The Great Southeast Music Hall and Emporium, which we frequented dozens of times), and such. Many of these included our wives: his, Katie, and mine, Sandy. The most memorable trip we took was a road trip to Maine, where we stayed in a cabin, but took day trips, including overnight tent camping at various locations in the state. We were gone on this trip for more than 3 weeks, and joked with then District Chief, John George, that we just might stay up there. That was written on a couple of pieces of birch bark and mailed to him at the District office. John wrote his response back to us on a dried leaf from the big-leaf magnolia, which grew near the office. We remained close, even with his transfer to the Kentucky District office where we visited him, Katie, and Melissa for Thanksgiving; and his return to Georgia. Tim remained a fair, caring, thoughtful, unpretentious man, even while occupying senior positions. I miss him.

Matt Lawson writes: Tim Hale was a great guy and was my boss for a while when I was Caribbean District Chief. He was particularly helpful as a mentor when I was struggling with a funding collapse in the post-Hurricane Mitch funding years and had to lead a RIF. He made sure that I wasn't out on a limb and was instrumental in helping us find placement for a number of our employees who were able to move to off the island. A great example of how close-knit our WRD family was in those years. RIP.

Bonnie McGregor, writes: Thanks for sharing the information on Tim Hale's passing. It reminds us of the wonderful people we knew and worked with.

Lamar **Sanders**, writes: In the 1970's, I camped and quail hunted with Tim and other USGS friends on my family farm at Edison, Georgia until the quail became extinct from farming practices. After that, we Surface Water friends kept on camping and would sit around the campfire, re-telling and re-enjoying crazy old stream-gaging, hunting, and canoeing stories. In the 1970's, Tim would organize adventuresome canoe trips down mostly black water rivers in Georgia and South Carolina, all of them fun, even with the fat cottonmouths now and then!! Tim and I parted ways vocationally (but not from being friends) on a sandbar by the Edisto River in South Carolina one night in 1974. There were several couples, and of course there was a hard rain as we all got in our tents for the night. I had a plastic tarp over my old canvas pyramid tent, so Dianne and I were nice and dry. About 10 pm, Tim knocked on the tent, said his tent was wet, asked if he could sleep in our tent, too, and of course, we said "yes." Just before he went to sleep though, Tim said, "Lamar, do you reckon this rain is going to get the river up enough to float our canoes away and leave us stranded on this sandbar in this swamp?" Then, he slept like a baby, while I myself got up now and then to check on the river and canoes, which demonstrated Tim's "managerial" ability to delegate tasks to other people. At that point, he went on to be District Chief and Regional Program Officer over people, while I continued doing field work, studies, and raising technological heck with the Survey the rest of my career. Those were such good times on the rivers with Tim!"

Donna Schiffer, writes: I'm sorry to hear about Tim's passing

Phil Turnipseed, writes: Oh, so sorry to hear. My prayers for the Hale Family. What a wonderful man Tim was.

Tom York, writes: Thank you for letting us know about the passing of Tim Hale. He was true-blue WRD, and a witty, gracious southern gentleman. I enjoyed working and socializing with him during our time together in the SE region. As you say, every day is precious.



Zoe Anne Hauth, 86, Phoenix, AZ, (*widow of USGS retiree Leland D. Hauth*) passed peacefully from this life on April 7, 2021. Zoe was born on a cold, wintry day in 1935 on a farm in rural Missouri to Sidney Earl (Ernie) Robertson and Cleo Robertson. She attended Willow Springs High School and graduated with the class of 1952. She loved playing piano and singing in choral groups. In 1954 she married the love of her life, Leland Hauth, and to this union three children were born. After she and Leland wed, they immediately left for Bremerton, WA, where Leland was stationed in the Navy. After he was discharged, they moved to Rolla MO, where she worked as an administrative assistant at the Missouri School of Mines to support Leland while he was enrolled as a student there. Upon his graduation, Leland began his career with the USGS. There Zoe began her high calling as a mother and homemaker, something she held close to her heart all her life. After their time in Arkansas, they returned to Rolla, where Zoe and Leland settled for some twenty years, and made many lifelong friends. Finally, they moved to Phoenix, AZ to be close to their daughter residing at a retirement community. Zoe had many interests in life including playing card games of almost any kind, trying new recipes (her banana pudding was par excellence), watching classic movies, and just being together with family. She enjoyed Bible study and playing the piano for small gatherings of believers. She was a rare example of kindness and humility in all that she did and was a gentle servant of Christ in the truest sense of the word. Zoe was preceded in death by her husband Leland Hauth, her parents, and her sister. She is survived by her two sons and her daughter. She is further survived by seven grandchildren, two great-granddaughters and one great-grandson. A memorial service was held for Zoe in mid-May 2021.



Passing of Rick Healy (by John R. Gray, Rob Striegl, Vic Heilweil, Tom Maloney, Gary Patterson, and Sandra M. Eberts):

Rick Healy (Scientist Emeritus, Water Resources Mission Area, Denver Federal Center) surrounded by his family died on July 21 after a fall from his bike while on a multiple week "100 Cols" bicycle tour in the French Alps. Rick retired from the USGS in 2015 after 40 years of service. He began his career as a University of Illinois graduate student with the Illinois District Champaign Office and came on-board full time after graduating with a Master's Degree in mathematics. The majority of Rick's career was spent with the National

Research Program, Field Application of Unsaturated Zone Theory Project. His major areas of research included development of numerical models for simulating flow and transport processes in the unsaturated zone, evaluation of groundwater recharge processes, and assessment of impact of energy resource development on water resources. Rick was an internationally recognized authority on methodology for estimating groundwater recharge and published the widely used textbook "Estimating Groundwater Recharge." He was an active scientist emeritus and was involved in projects with the Upper Midwest, Nevada, and New Jersey Water Science Centers and internationally. Rick's mentorship was invaluable to colleagues within and outside of USGS and to many students. Rick was a man of many interests and talents with seemingly limitless energy. He coordinated camping, hiking, and white-water canoeing trips and, particularly in the last 15 years, was an avid bicyclist. He played the piano throughout his life. A true orange-and-blue Fighting Illini fan, he attended basketball and football games while stationed in Urbana-Champaign and followed the teams closely afterwards. Rick strived throughout his life to leave the world a better place, quietly contributing his time and financial sources to help those overlooked by society. For over 20 years, Rick mentored former inmates on finances, helping them understand the financial building blocks needed to succeed outside the prison system. In addition, he was actively involved in EarthLinks Colorado, educating people experiencing homelessness and poverty on bees and beekeeping, helping to create connections between them and the earth for the mutual benefit of both. In recent years, Rick was active with The Boulder Community Corrections Board, helping to monitor community-based alternatives to incarceration and working to advise on relevant criminal justice issues. Rick was a loving father, grandfather, and friend to many. A thoughtful, quiet, and calming presence, Rick committed himself to his family, his work, the environment, and social justice issues. He was a nonpareil colleague who is profoundly missed by the many whose lives he touched.

Contact information for Rick's daughter is included below for those of you who would like to reach out to the family:

Emily Mosman, dana@mosmanmachinery.com



Tom Maloney writes: Rick was a great friend for many years. We did both graduate from Marist HS in Chicago in 1970 but we really connected more when we both started working in the Illinois District. We reconnected here in Colorado after Rick moved here after Grad school and I moved from Maine to the Branch of Quality Assurance. He continued to organize many camping/fishing trips. A small group of us, Rick, Ed Weeks, Gary Patterson, Mike Vruno - an Illini friend of Rick's, and I usually went on fall adventures to mountain lakes which included some extreme uphill hikes. Rick organized the whole trip and planned and bought all the provisions. He was a master at reading maps and finding great places to go. Rick always was into biking but really got into it over the last 15 years. He was frequently on the USGS Ride the Rockies, (RTR) group. This year he decided to pass on RTR to go on the trip to France. This photo with him giving a high sign to the camera is the way I remember Rick.

Below is a link to a tribute that a bike friend of Rick's put together in memory of Rick – this link came from outside the USGS email system. Download link:

<https://bikedreams.wetransfer.com/downloads/c05073a74c78cd0b2eb40d037d61891920220723213754/78f2c1ad401a855a8903825f7141fa8e20220723213754/dc3b3e>

Vincent D. Herreid Age 93, of East Lansing, MI, passed away September 27, 2021. He was born August 19, 1928, in St. Paul, MN, to Ernest and Anne Herreid. There will be no service.

Jane E. Hinterschied, 89, passed away on July 31, 2022, at her son's home in Granville, OH. She was born in Columbus, OH to the late Joseph and Josephine Boland. Graduating from Holy Rosary High School in 1951. She was employed at St. Pius Church where she was a library assistant and the school secretary. Jane served as the secretary to the Office of the District Chief in Columbus, OH from 1979 to 1994, and retired in 1994. Foremost, Jane was a sweetheart with a good sense of humor. She enjoyed various movie genres, with her favorite being Golden Age cinema, and especially enjoyed Cary Grant, Gary Cooper, and Paul Newman. She also loved a good musical or play, reading a suspense novel by the fireplace, and warm summer evenings on the porch overlooking Buckeye Lake. Jane's dancing skills were well known, even later in life. Jane was a dedicated wife and a great mother whose occasional Irish temper kept three boys lovingly in line. She will be remembered for her love and dedication to family and heartfelt concern for everyone around her. Surviving are her sons, two grandsons, and three great grandchildren. In addition to

her parents, Jane was preceded in death by husband Theodore and a sister. A celebration of life was held on August 4, 2022, at St. Pius X Church, Reynoldsburg, OH. Entombment will follow at Holy Cross Cemetery in Etna.

Carney P. Humphreys, 90, was born on October 26, 1929 and passed away on April 15, 2020

Hillary Jeffcoat, 87, of Tuscaloosa, AL passed away on August 12, 2022. Hillary was born in the town of North, South Carolina. Hillary left Clemson University to serve in the U.S. Army (with Elvis), serving in Germany during the Cold War. He began his career as a hydrologist with the USGS in Columbia, SC. He devoted his career to the USGS for 36 years, ultimately becoming the District Chief of the Alabama District. His life of service involved many charitable and civic organizations. Delivering Meals on Wheels for years, culminated with delivering meals on Christmas morning every year with his two grandsons. Even a pandemic could not keep him from serving as a poll worker during each election cycle. He was a devoted member of Forest Lake United Methodist Church for 46 years. He served Forest Lake as an usher, a coach for the girls' softball team, and a teacher of the Genecians and Men's Sunday School classes. He also led an inter-denominational community Bible study. He is survived by his wife of 62 years, Mamie Jeffcoat; his sister, and two daughters, his two granddaughters, his two grandsons and a great-granddaughter. A celebration of life was held August 17, 2022, at the Forest Lake United Methodist Church in Tuscaloosa, AL.

Vic Strickland, a coworker writes: "Hillary Jeffcoat was a true gentlemen and great representative of the USGS. Hillary was sub-district chief when I was hired and later became Alabama District Chief. He worked relentlessly developing program within the state and provided unwavering leadership through some lean years in Alabama. In the 11 years or so that I worked with Hillary, he was always knocking on potential funding partners doors developing relationships and touting USGS capabilities. Once Hillary retired, I would still see him occasionally at the golf course and he would always ask about updates from the USGS and what we were working on now. He will truly be missed but not forgotten."



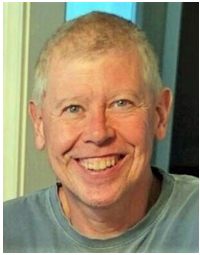
Stanley A. 'Stan' Leake passed away peacefully amongst his loved ones on September 19, 2022, after a 6-month battle with cancer. He was 71. He is survived by his wife, Maria; his three sons, Matthew, Gabriel, and Daniel; and three grandchildren. Stan was born April 19, 1951, in Prescott, AZ, to Charles and Dorothy Leake, the middle of five children. He spent his youth hunting, fishing, hiking, boating, and scuba-diving, and remained an avid outdoorsman thereafter. Stan's first association with USGS was working with Herb Skibitzke in Prescott while taking mathematics course work at Yavapai Community College. He then attended Arizona State University, where he met his future wife and mother of his children, Lydia. After receiving a Master's Degree in Hydrology from the University of Arizona, he began full-time work as a hydrologist for the USGS in Mississippi. He transferred to the USGS office in Yuma, AZ, before his final transfer to the USGS Tucson office where he spent the large majority of his USGS career. He retired from the USGS in 2015. Stan was an Arizona-born-and-bred hydrologist who, during his 42-year distinguished USGS career, was renowned nationally and internationally for his expertise and publications in groundwater hydrology with an emphasis on groundwater-surface water relations. He received the 2014 National Groundwater Association (NGWA) John Hem Award for Excellence in Science & Engineering, authoring and reviewing papers for Groundwater, the NGWA's professional journal. As a well-known and respected scientist in his field, Stan made significant contributions to hydrology, including his numerous publications, developing renowned modeling software, and advising international clients as far as China – all leading to receipt of the Arizona Hydrological Society's Lifetime Achievement Award in 2017. Stan was also part of the modeling team that held workshops and classes internationally including China, Mexico, and Australia, and made many significant contributions in the area of groundwater modeling. He also helped support the innovation of regional climate analysis resulting in the HydroClimATe Toolkit, modeled runoff-recharge relations with the development of the Basin Characterization Model; and model time-series analysis. He also was a contributing developer for the USGS's modeling software, MODFLOW. His subsidence and compaction MODFLOW components (SUB and SUB-WT) are widely used throughout the United States and internationally. His other innovations include the use of superposition groundwater models to gain insights into aquifer systems. In the area of water resources, Stan's publication with Bill Alley, "The Journey from Safe Yield to Sustainability," built on landmark articles on the "Myth of Safe Yield" by Bredehoeft that continue to be highly influential with respect to concepts of safe yield and sustainability of groundwater. In 2012, along with Paul Barlow, Stan published USGS Circular 1376 "Streamflow Depletion by Wells—Understanding and Managing the Effects of Groundwater Pumping on Streamflow". That publication stands as one of the most complete compilations of stream-aquifer interactions in the scientific literature. Faith in God and devotion to his family were at the center of Stan's life. He was a member of Sunrise Bible Baptist Church for over 40 years, seen by many as a pillar of the church. When his wife, Lydia, became ill and lost the ability to walk, Stan devoted much of the next decade to taking care of her and giving her the best quality of life possible. Years after Lydia's passing, Stan married Maria, and they went on to have many loving adventures together, even as his health declined. Stan was talented in almost any endeavor he chose to pursue. He enjoyed raising exotic plants, gardening, woodworking, working on classic cars, and building and playing musical instruments. The bowed psaltery was a favorite of his. He was a calm, reasoned, and full-of-humor colleague, and a mentor to many. Even in illness, he volunteered to help plan the 2023 USGS Retirees' Reunion scheduled for Tucson. He had a positive influence on everyone he touched and is sorely missed by those of us left behind. A memorial service was held on October 1, 2022

at the Sonrise Bible Baptist Church in Tucson that was planned by Stan with his Pastor and well attended by friends and family from far and wide as a true celebration of life.

-Memorial contributions from Jim Leenhouts, Dan Evans, Randy Hanson, and John Gray

Vessie Jones Mills, 96, (widow of USGS retiree Luther R.E. Mills) of Cross City, FL passed away October 4, 2021. Vessie was born July 5, 1925, to the late Albert and Pearl Brown in Bell, FL, but had spent most of her life in the Cross City area. She had owned Jones Department Store and was a member of the First Baptist Church of Cross City. Vessie is survived by her three grandchildren, eight great-grandchildren, two, great-great-grandchildren. She was preceded in death by her husbands Cecil Jones and Luther Mills, and her son. Funeral services for her were held on October 8, 2021, at the Rick Gooding Funeral Home Cross City Chapel. Interment followed at Cross City Cemetery.

Paul Moleski, 81, passed away on July 19, 2022, in Lady Lake, FL. He was born in Mount Carmel, PA a son of the late Anthony and Adele (Rakowski) Moleski. He was a U.S. Air Force Veteran, faithfully serving his country from 1959-1964. Paul was a Hydrological Technician for the USGS and retired in 1999. Paul was an avid fisherman that also enjoyed hunting. He enjoyed horseback riding and trail riding with his local 4H club in NJ. He loved to travel the world with his beloved wife Kay prior to her passing. Paul was predeceased by his beloved wife, Kathryn E. (Hare) Moleski. He is survived by his two daughters, and a goddaughter. Funeral services and burial are private.



Scott Morlock, 56, passed on July 25, 2022. Last week the USGS family lost a colleague, friend, and mentor to many. Scott Morlock, Midcontinent Regional Director. Scott shared his infectious personality, quick wit, and his dedication with the USGS for 31 years. He was a wonderful leader and a terrific person, representing the best of USGS and the essence of what it means to be a public servant. Starting in 1987, Scott spent the first four years of his career at the Indiana Department of Natural Resources in Indianapolis. Luckily for us, in 1991, Scott joined the USGS as a hydrologist in the Indianapolis Water Science Center. By 2003, Scott's dedication to hard work and the USGS mission was evident when he became a supervisory hydrologist leading the Hydrologic Networks Section, Hazards Investigation Team, and IT Section. During this time, Scott became known as a "program development machine," in the words of former Water Mission Area Deputy Associate Director, Bill Guertal. Continuing to demonstrate his natural ability to lead, Scott was promoted to the Deputy Director of the Indiana Water Science Center in 2011, where he played a major role in the Indiana-Kentucky center merger. Three years later, Scott was promoted again to the role of Midwest Region Science Coordinator. From there Scott spent the next six years filling various roles within the regional office including Deputy Director for Science and Acting Regional Director. In May of 2020, Scott was selected as the Midcontinent Regional Director. Recognition for Scott's many accomplishments during his multi-decade career include a DOI Superior Service Award for technical leadership in USGS hydro-acoustic programs and a second Superior Service Award for flood inundation mapping program work. Scott was recently approved to receive the Department's Meritorious Service Award in recognition of his exceptional contributions in advancing interdisciplinary science through active management of USGS science and administrative programs. It will be presented posthumously at the USGS honor awards ceremony this fall. If I were to ask Scott what his biggest accomplishments were at the USGS, he would likely say being able to help develop and implement a wide breadth of science and build long-lasting relationships with USGS staff and partners. Scott was passionate about employee development and growth and promoted work-life balance for all staff. He was an extremely modest and selfless leader who built an incredible regional team during his two years as regional director. His dedication and hard work have left a lasting impact on the Midcontinent Region and the USGS. Many of you knew Scott on a personal level. When he visited centers, he made a point to engage with as many staff as possible. He wanted to learn about everyone's work, and more importantly, he wanted to know each person as an individual. Scott valued everyone's role and contributions to the mission, and sincerely wanted the best for everyone. Scott was a one-of-a-kind leader — he'd be the first to volunteer for field work, to help sort the mail, or give a challenging presentation. It truly did not matter to Scott what he was doing, as long as he was helping others. He was a big ray of sunshine and had a heart of gold. Whatever the problem we were facing, I could always count on him to be part of the solution. Scott was not just a colleague — he was also a dear friend to many. He was the ultimate class act on how to be a good person, facing any challenge or adversity with a smile and using his calming voice to diffuse tension. What he was as a regional director, he was one hundred times better as a person (read Get to Know Scott Morlock). On behalf of the Executive Leadership Team, I send our sincere condolences to Scott's wife, Helen, and the rest of Scott's family and friends during this difficult time. Our thoughts are also with our Midcontinent Region. The USGS family will miss Scott deeply, and his legacy will continue. Please take some time to read his beautifully written obituary.

-Dave Applegate, Associate Director for Natural Hazards, Exercising the Delegated Authority of the Director

Bob Swanson writes: There is so much that has already been said about Scott Morlock's life and his impact on the USGS community. He worked for me on the Future of the Annual Data Report Team and the HydroTech Competitive Outsourcing Committee, I worked with him as peers in the Midwest Region and many committees there, and finally I worked for him when he moved onto the Regional Management Team. Those are a lot of different relationships, and he was rock solid at them all. Everything that has been written is just absolutely true. Scott was the eternal optimist. He worked tirelessly for integrated science in the USGS and that just didn't come naturally to most of us. He led us forward

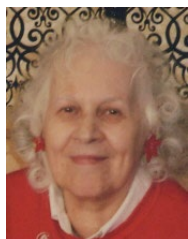
and created the future. He was a friend and confidant, and I will never forget him. He was just always excited about some new science or technology and programs to share between Centers. He loved Science Fiction as much as science fact and we talked almost every week, while I was still working, about our current reads and authors and films. I looked forward to any meeting that Scott would attend and never met a person who didn't like the man. "Please God, let me be the kind of person more like Scott." It will take two people to replace him at whatever he was doing.

Margaret S. Moshinsky, 93, of Lansdale, PA, (**widow of USGS retiree Edward W. Moshinsky**) passed away peacefully on September 11, 2021 at Dock Woods Senior Living Community, Lansdale, PA. Born in Port Carbon, PA, Margaret had been a 49 year resident of Yardley, PA. Margaret worked for the U.S. Government for many years with the former Bureau of Mines and at the Fort Indiantown Gap National Cemetery. She spent time volunteering with the Yardley Makefield Emergency Unit. She was a homemaker and enjoyed doing ceramics and crafts. She loved the beach and swimming. Margaret was a long-time member of the Yardley United Methodist Church. Margaret struggled with debilitating hearing loss for most of her adult life and made the commitment to be a part of helping to find new cures for ear problems by donating her temporal bones to scientific research at Harvard Medical School upon her passing. Margaret is the daughter of the late William and Amanda Bull Schminkey and was the devoted wife of the late Edward W. Moshinsky. She is the loving mother of four daughters and one son. Margaret is the loving grandmother of seven grandchildren and one great-grandchild. Relatives and friends attended Margaret's Life Celebration on October 29, 2021, and her funeral service at the Swartz-Givnish Funeral Home, Newtown, PA. Interment followed at Washington Crossing National Cemetery, Newtown.



William J. "Nick" Nichols Jr., 78, passed away September 22, 2022, in Augusta, ME. He was born February 12, 1944, a son of William and Susan "Jane" (Carpenter) Nichols Sr. Nick grew up in Brooklyn, NY, and was proud to be a New Yorker and a loyal Yankee's fan! After graduating from high school, he enlisted in the United States Air Force and often reminisced about the time he spent stationed in remote Goose Bay, Labrador, which he said prepared him for isolation during Covid. After his military service, Nick worked to support his family while earning a degree in Environmental Geology from SUNY Cortland. He was dedicated to science and had a long career as a Hydrologist with the USGS. Eventually his work with the USGS brought him to Maine. Nick enjoyed fishing,

feeding and watching the birds at his home, monitoring the weather, daily crossword puzzles, socializing and exercising at the YMCA, Breakfast Club, shopping at Shaws, and going to Slates. He will be remembered for his gregarious personality, kind heart, and love for his family and friends. Nick is survived by his loving wife of 32 years, Mary O'Brien; his daughter and son. Nick was lovingly named "Geeks" by his grandchildren, and one great-grandchild. In addition, he is missed by his "bonus" son, Michael Pettengill, and many nieces, nephews, friends, and neighbors near and far. Nick was predeceased by his parents; a brother; and his brother-in-law. A private celebration of life will be held at a later date. Arrangements are in the care of Plummer Funeral Home, Augusta, ME.



Janice S. Ramsvick, age 95, (**widow of USGS retiree Orlando Ramsvick**) of Council Bluffs, passed away April 1, 2022, at the Fox Run Assisted Living. Janice was born April 25, 1926, in Hillhead, SD to the late Fred and Fern (Felton) Stanley. She graduated from Veblen High School in 1945. Janice married Orlando on June 10, 1951. They were blessed with two children, a daughter and son. Janice was a homemaker and a member of St. Paul's Episcopal Church where she taught Sunday school. Janice and her husband were avid square dancers and loved to travel in their airstream camper. She was a terrific sewer making her own clothes. In addition to her parents, Janice was preceded in death by her husband, Orlando in 2004 and her son in 2018. Janice is survived by her daughter, a grandson, and

two great grandchildren. Funeral service was held at Cutler-O'Neill-Meyer-Woodring Bayliss Park Chapel. Interment Telemarken Lutheran Cemetery in Wallace, SD.

Richard Godfrey Ray, age 101, a longtime resident of Rockville, MD, died on June 28, 2022, from complications of peripheral artery disease and heart and kidney ailments. Dr. Ray was a native of western Massachusetts, raised by a widowed mother who worked factory assembly line jobs to support her children. He graduated from Williams College in 1942, then joined the Department of Geology at Brown University, obtaining a master's degree in 1943. He moved to Washington, DC and did geologic mapping of strategic minerals in southeastern Alaska for the USGS. In 1944 he was commissioned an Ensign in the U.S. Naval Reserve and was soon assigned to the USS Thornhill, Destroyer Escort 195, with duty in the North Atlantic and later Central Pacific theaters during World War II. Upon his return to the States in 1946, he was transferred to the Office of Naval Petroleum Reserves in Washington, assigned to direct geologic mapping of oil structures on Alaska's North Slope. Upon his discharge from the Navy that year, he rejoined the USGS. He soon met Norma Rapp, a government secretary originally from Ohio who worked at the War Department, on a blind date at Glen Echo Amusement Park. They married in early 1947 and soon moved from Washington to Silver Spring, MD. Together they worked summers in Alaska through 1950, and he spent winters attending The Johns Hopkins University, receiving his Ph.D. in geology and election to the Phi Beta Kappa society in 1950. Dr. Ray authored numerous technical papers and books on geologic subjects. In 1961 he became Program Director for Geology at the National Science Foundation, a position which he held until his retirement from the Federal Government in 1975. He then joined the Board on Minerals

and Energy Resources at the National Academy of Sciences as a staff officer, retiring from that position in 1982. With a deep interest in the visual arts, Richard devoted much of his leisure time to landscape painting with the Washington Society of Landscape Painters. He had his first featured art show at the American Painting Fine Art gallery in Washington at age 100, and two of his paintings have been accepted into the Smithsonian Institution's Alaskan Art program. He was also an avid duplicate bridge player, and for many years directed local bridge games and travelled internationally for tournaments. He was preceded in death by his loving spouse of 62 years, Norma. He is survived by a son and a daughter. A celebration of Richard's life was held at the Robert A. Pumphrey Funeral Home, Rockville, MD, on July 13, 2022. His ashes will be interred next to his wife Norma's in Ohio.

NOTE: This is to report the June 28, 2022, death of my father, Dr. Richard G. Ray, USGS Geologic Division employee from 1943-45 and 1946-60. He was two weeks shy of his 102nd birthday. Please see his obituary published in the *Washington Post*:

<https://www.legacy.com/us/obituaries/washingtonpost/name/richard-ray-obituary?id=35554947> In his earlier tenure at the Survey, Dr. Ray spent time surveying old copper and iron mines in the panhandle of Southeastern Alaska near Ketchikan. After an active-duty stint in the U.S. Navy toward the end of World War II, first in the Atlantic Theater and then in the Pacific, he was assigned to the Naval Office of Petroleum Reserves. In 1946 he returned to the Survey on Navy orders (in the Naval Reserve) as a party chief studying mineral deposit in the Maybe Creek area on Alaska's Arctic Coastal Plain. He also worked on oil exploration of Naval Petroleum Reserve No. 4 on Alaska's North Slope, near Point Barrow. His studies for the Survey provided much of the data and stimulus for commercial research supporting construction of the Alaska Pipeline. As a field geologist at camps in Alaska in 1947, he worked on various mineral mapping projects. During 1948-50 he studied gold deposits in and around the Gold Cord Mine in the Willow Creek Mining District in southern Alaska, while finishing his Ph.D. at Johns Hopkins University. In the early 1950s his job moved him back to Washington, DC, though he spent time in Alaska and in Colorado, where he studied uranium-bearing rocks in the Colorado Plateau. He prepared a professional paper on the up-and-coming use of aerial photogrammetry in geologic mapping in the late 1950s, which in 1960 led to a second career at the National Science Foundation, where he became Program Director for Geology. He always described his time at the Survey as the most exciting time in his life and wrote down many stories about his Alaskan adventures. Please feel free to contact me if you have any questions. I hope you can mention my dad's passing in the November Newsletter, although I'm not sure many of his old cronies who might remember him are still living! Thank you for reading this message.

-Provided by his son, Dale Ray, Potomac, MD

Stanley 'Stan' Sauer, 85, passed away on October 11, 2022. A Memorial for Stan will appear in the February 2023 newsletter.



Marilyn G. Sloan, 84, (wife of USGS Retiree Charles E. Sloan) passed away on March 24, 2020, after a valiant battle with brain cancer (Glioblastoma). Born August 1, 1936, to Arthur and Mildred Gruenler in Denver, CO. Marilyn's father was a high school principal in Denver and Marilyn wanted to follow in his footsteps. She attended the University of Colorado at Boulder (CU) where she met her future husband, Charlie. She graduated from CU in 1958 with a degree in elementary education. From 1975 until her retirement in 2005, Marilyn dedicated her life to her kindergarten and second grade students at College Gate Elementary School in Anchorage, AK. Teaching was a means to her other true passion - travel. Everyone agreed that Marilyn was an amazing storyteller - each story was

filled with laughter and details, taken from her life of global journeys: walking with the lions in Africa, eating unidentified foods in Asia, hiking across the English countryside and the Scotland moors, riding Elephants in Thailand, and cruising as far south as Cape Horn and the northern waterways of Europe and Russia. She also took on adventures closer to home - comical camping adventures in the family Airstream. She was a 35-plus year member of the PEO Sisterhood, Chapter C, Anchorage, and a member of St. John United Methodist Church in Anchorage. A Celebration of Life was scheduled sometime during the summer of 2020, due to the precautions for the Covid-19 virus. Marilyn is survived by her loving husband of 60 years, Charles Sloan of Anchorage; three sons and a daughter. Last but not least, she leaves four fun and awe-inspiring grandchildren.



Evelyn E. Wiesnet, 91, (wife USGS retiree Doanld R. Wiesnet) of Oakton, VA, died peacefully on February 19, 2020. She was born on July 21, 1929, in Buffalo, NY, the daughter of Esther and Francis Alfonso Jordan. In 1951 Evelyn graduated from State University of New York College for Teachers at Buffalo, NY. Her first teaching position was on Grand Island, NY. In 1952, she married Donald R. Wiesnet and they relocated to Arlington, VA, where Don accepted a position with the U.S. Geological Survey. In 1954, they settled in Vienna, VA, to raise their family. In the late 1960's Evelyn returned to her first love - teaching. She accepted a position at Vienna Elementary where she taught

Kindergarten. In the fall of 1986, she accepted a position as a First Grade Teacher at Flint Hill Elementary, where she stayed until her retirement in 1992. During her 24 years in the classroom Evelyn touched the hearts and minds of hundreds of young Vienna students with her supportive and nurturing style of teaching. Evelyn's love of teaching and serving others continued after retirement. As an active member of Vienna Presbyterian Church, Evelyn held different positions with a focus on teaching English as a Second Language. Evelyn is survived by her loving husband, Donald, her two sons and two daughters. She is also survived by eight grandchildren whom she loved and cherished dearly. Evelyn's spirit will live on in many of us who were blessed with her love, lessons, and guidance. Funeral services were held at Vienna Presbyterian Church, Vienna, VA on March 7, 2020. Burial was at Arlington National Cemetery.