

# "WRD RETIREES"

NEWSLETTER NO. 30

FEBRUARY 1981

**An organization of retirees of the Water Resources Division, U.S. Geological Survey, who seek to keep in touch with each other and with their former agency.**

National Officers: Walton H. Durum, President; O. Milton Hackett, Vice President; Ruth L. Malone, Secretary; Sumner G. Heidel, Treasurer.

Regional Officers: Don M. Corbett, Northeast; Kenneth B. Young, Southeast; Irene Paulsen, Central; Kenneth N. Phillips, West.

Administrative Coordinator: Robert M. Beall

Newsletter Editor: George E. Ferguson Associate Editors: James W. Geurin and Margaret M. Walling

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## AGENCY NEWS

To those who may wonder as to what effect the change in administration may have on the USGS, we quote the following paragraph from the holiday message of Survey Director Bill Menard that was carried in the December issue of the USGS Newsletter: "The year ahead, more than most, will be one of change and transition as the new Administration goes about setting its goals and reordering the established priorities. Inevitably the mission and programs of the Survey will be affected by these changes as they embody new regulatory attitudes and new objectives for the application of the earth sciences. We should expect new marching orders, and be prepared to execute them smartly as loyal members of the Federal Executive establishment, even as we continue our century-old commitment to the pursuit of scientific truth that has earned the U.S. Geological Survey the reputation it enjoys as the premier source of authoritative, reliable, objective knowledge about the Earth, its resources, and its processes."

The attractive and peaceful Virginia forest through which Reston's Sunrise Boulevard was constructed initially to give access to the USGS National Center, gradually is changing to an area of large commercial establishments. Already in place but not too conspicuous and certainly not unsightly is a large warehouse. Sperry Corporation has recently opened its nearby 110,000 square foot research and development facility but this also is well back from the Boulevard. Ground is being broken for a complex of office buildings which, on the basis of the architects sketch, will be well landscaped. The Survey's sizeable wooded area on one side of the Boulevard also will give protection to its site. \*\*\*\* Their many friends and associates gave their goodbyes and best wishes for the retirement years to former Survey Director Vince McKelvey and wife Gen at an informal reception at the National Center on December 1. Vince and Gen moved to Florida a few days later. Vince plans to do part-time research on Florida phosphate deposits and will have space in the WRD's Orlando Subdistrict Office. \*\*\*\* Dwight Crandell, one of the two Survey scientists who predicted Mount St. Helen's volcanic activity two years ago, is quoted in the Christian Science Monitor (12/8/80) as saying that Oregon's Mt. Hood may erupt in the "very near future."

Phil Cohen, Chief Hydrologist, and several of his staff attended a January 8 ceremony at which outgoing Interior's Secretary Cecil D. Andrus expressed his gratitude to Departmental employees for their support during his tenure. \*\*\*\* Doyle Frederick, Associate Director, and Tom Buchanan, Assistant Chief Hydrologist, are new members of the ASCE's Committee on Civil Engineers in Government. Joe Cragwall, Associate Director prior to retirement, formerly represented the Survey on this committee. \*\*\*\* Phil Greeson, QW Branch's biohydrologist at the National Center, was elected last fall to the position of President-Elect of the American Water Resources Association. He will serve as President during 1982.

NOTICE: See page 7 for information on golf outing at Reston, Virginia, on May 18. Those interested are requested to respond by April 1.
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Joseph F. Poland and Victor T. Stringfield, WRD retirees but still quite actively serving the Division, were honored individually at the 93rd Annual Meeting of the Geological Society of America in Atlanta, Georgia, November 17-20, 1980. Vic Stringfield's prominent, generic role in the evolvement of concepts of the origin of Karst limestone terrane and the principles of Karst hydrology were acknowledged in public ceremony and through the well-attended V.T. Stringfield Symposium, Processes in Karst Hydrology. Similarly, Joe Poland's pioneer and continuing contributions to land-subsidence processes and methods of control were recognized at a special dinner and through the Joseph F. Poland Land Subsidence Symposium.

WRD plans to open a large office in Vancouver, Washington, to handle its hydrologic investigations of the area affected by the Mount St. Helens eruptions. \*\*\*\* District Chief for Washington, Chuck Collier, reported in a press release on October 29 that normal rainfall this winter will erode hundreds of millions of cubic yards of mud, and ash from the Toutle River valley and increase overland flooding along the Cowlitz River. For every cubic yard of debris that clogged the river after the May 18 eruption, 10 cubic yards could reach it this winter, Collier testified at a hearing of the Senate Appropriation Committee at Kelso, Washington, on October 29.

Among the WRD programs to be strengthened are ground water contamination and acid rain investigations. \*\*\*\* Growing concern on the part of the Nation's hydrologists, officialdom and the press as to the ever more limited availability of potable ground water, was described in John Moore's most recent (1980) annual contribution to the Britannica Yearbook. John called attention to Time Magazine's September 22 article on ground-water pollution from hazardous wastes, to New York's Love Canal contamination and to EPA's catalog of 250 hazardous waste sites that present a potential threat to ground-water supplies. \*\*\*\* The Mississippi River discharge is reported to be at an all-time low.

Della Laura has been designated to head WRD's International Hydrology Office. Della succeeds J. R. "Digger" Jones, who retired on August 23. \*\*\*\* Ann C. Beam has become the first woman to hold the position of Deputy District Chief in WRD, having recently been assigned that post in the Florida District organization. Ann will assist District Chief Irwin Kantrowitz in directing the more than 270 personnel in WRD's largest district. She most recently served on the SE Regional Staff in Atlanta. \*\*\*\* Another step toward greater utilization of women in key positions was taken by WRD on October 20 when Janice Whipple was appointed Chief of Hydrologic Studies for the Albany, New York subdistrict. \*\*\*\* Ernie Cobb, former District Chief for Puerto Rico (1974-78), has recently completed a 2-year detail to the Environmental Protection Agency where he was Project Officer of eight urban runoff projects. Ernie is now on the SW Branch staff at the National Center, largely on the coordination of urban hydrology studies. \*\*\*\* Verne Schneider, who heads WRD's research on physical modeling of hydrologic systems at the Gulf Coast Hydrosience Center, has been elected 1981 Chairman of the Surface Water Committee of ASCE's Irrigation and Drainage Division.

Recent announcements of individuals to fill some of the Division's key positions: Porter E. Ward, who was the Assistant Chief, Office of Water Data Coordination, has been named Chief. \*\*\*\* Philip A. Emery, who was District Chief, Kentucky District, has been named District Chief, Alaska District. \*\*\*\* William B. Mann, formerly District Chief, Wisconsin District, is now Chief, Water Use Data Program, National Center.



## RECENT RETIREMENTS

Retirements from WRD through January 16 which have not been announced in recent issues include: Mary L. Bauer, Secretary, Austin, Texas, on December 26. \*\*\*\* Clark H. Benson, Hydrologist, Tucson, Arizona, on December 27. \*\*\*\* Margaret E. Broeker, Administrative Officer, Lawrence, Kansas, on January 10. \*\*\*\* Delbert W. Brown, Chief, National Training Center, Lakewood, Colorado, on November 15. \*\*\*\* Albert N. Cameron, District Chief, Baton Rouge, Louisiana, on December 27. \*\*\*\* Wanza J. Clunan, Editorial Assistant, Baton Rouge, Louisiana, on December 13. \*\*\*\* Harlan B. Counts, Project Chief, SE Coastal Plain Regional Aquifer Study, Atlanta, Georgia, on November 15. \*\*\*\* William F. Curtis, Hydrologist, Lakewood, Colorado, on December 26. \*\*\*\* Thomas M. Davey, Hydrologist, Yuma, Arizona, on December 29. \*\*\*\* Marvin E. Davis, Hydrologist, Tuscaloosa Alabama, on January 10. \*\*\*\* George H. Davis, Assistant Director (formerly WRD), National Center, on January 16. \*\*\*\* George DeBuchanne, Chief, Office of Radiohydrology, National Center, on January 9. \*\*\*\* Arthur M. Diaz, Hydrologist, Lawrence, Kansas, on January 10. \*\*\*\* Frederick C. Dreher, Assistant District Chief, Madison, Wisconsin, on January 9. \*\*\*\* Lee C. Dutcher, Hydrologist, Regional Headquarters, Denver, Colorado, on October 31. \*\*\*\* Charles S. English, Hydrologic Technician, Tucson, Arizona, on December 27. \*\*\*\* Glenn D. Francis, Hydrologic Technician, New Philadelphia, Ohio, on January 10. \*\*\*\* John T. Gallaher, Hydrologist, Meadville, Pennsylvania, on October 23. \*\*\*\* Clarence R. Gilbert, Hydrologist, Austin, Texas, on December 12. \*\*\*\* Ted S. Graff, Hydrologic Technician, New Philadelphia, Ohio, on January 5. \*\*\*\* Rodney G. Grantham, Hydrologist, Doraville, Georgia, on January 9. \*\*\*\* Helen E. Hahn, Administrative Clerk, Boise, Idaho, on October 31. \*\*\*\* Billie B. Hampton, Hydrologist, Ft. Worth, Texas, on December 26. \*\*\*\* Henry G. Healy, Hydrologist, Tallahassee, Florida, on January 17. \*\*\*\* Hugh H. Hudson, Hydrologist, Regional Headquarters, Lakewood, Colorado, on October 31. \*\*\*\* John O. Joerns, Hydrologist, Wichita Falls, Texas, on December 29. \*\*\*\* Nyra A. Johnson, Editorial Assistant, Portland, Oregon, on December 29. \*\*\*\* Pansye J. Jones, Secretary, Little Rock, Arkansas, on December 30. \*\*\*\* Paul E. Junkins, Hydrologic Technician, Harrisburg, Pennsylvania, on January 16. \*\*\*\* Edward J. Kennedy, Hydrologist, National Center, on December 27. \*\*\*\* Norman J. King, Hydrologist, Lakewood, Colorado, on October 31. \*\*\*\* Hallard B. Kinnison, Hydrologist, Regional Headquarters, Menlo Park, California, on October 31. \*\*\*\* Robert A. Krieger, Hydrologist, Regional Headquarters, Atlanta, Georgia, on November 15. \*\*\*\* Eugene J. LaCornu, Supervisory Hydrologic Technician, Santa Rosa, California, on October 31. \*\*\*\* Alvin R. Leonard, Hydrologist, Portland, Oregon, on January 10. \*\*\*\* Howard E. Lobley, Hydrologic Technician, Albuquerque, New Mexico, on December 29. \*\*\*\* Russell L. McAvoy, Chief, Denver Central Laboratory, Arvada, Colorado, on October 31. \*\*\*\* Robert G. McMurtrey, Hydrologist, Helena, Montana, on December 27. \*\*\*\* Lawrence E. Newcomb, Hydrologist, Regional Headquarters, Menlo Park, California, on January 16. \*\*\*\* Stanley E. Norris, Hydrologist, Columbus, Ohio, on January 10. \*\*\*\* Edmond G. Otton, Hydrologist, Towson, Maryland, on January 10. \*\*\*\* Lester R. Petri, Hydrologist, Lincoln, Nebraska, on October 31. \*\*\*\* Frances S. Price, Secretary, Austin, Texas, on December 26. \*\*\*\* Jose S. Quinata, Hydrologic Technician, Agana, Guam, on October 31. \*\*\*\* William J. Randolph, Hydrologist, Nashville, Tennessee, on December 15. \*\*\*\* Claire A. Richardson, Hydrologist, Baltimore, Maryland, on December 27. \*\*\*\* Robert Schneider, Hydrologist, National Center, on January 16. \*\*\*\* Eleanor L. Simpson, Secretary, Lakewood, Colorado, on January 10. \*\*\*\* James R. Spofford, Hydrologist, Boise, Idaho, on October 31. \*\*\*\* E. Leona Stevens, Clerk Typist, Jupiter, Florida, on January 9. \*\*\*\* Arlene P. Summers, Secretary, Lincoln, Nebraska, on January 10. \*\*\*\* Frank W. Trainer, Research Hydrologist, Regional Headquarters, Menlo Park, California, on January 9. \*\*\*\* James M. Weigle, Hydrologist, Towson, Maryland, on January 15. \*\*\*\* James E. Weir, Jr., Hydrologist, Lakewood, Colorado, on January 16. \*\*\*\* I. Dale Yost, District Chief, Austin, Texas, on November 15.



Last October Frank and Eleanor Bell celebrated their 51st anniversary with cake, champagne, etc. as guests of the Royal Viking Sky, a luxury ship on which they were cruising the eastern Mediterranean. Frank says that: "Besides Athens, Cairo, and Jerusalem, we saw the remains of four of the seven wonders of the ancient world. However, the highlight was Ephesus, an excavated ancient city in Turkey. After seeing it, it's obvious why St. Paul wrote his letter to the Ephesians. Among the restored buildings is a 20-seat public toilet with no sex discrimination and a bordello dating from about 2500 B.C." \*\*\*\* Metha (Mrs. Walter A.) Blenkarn's biggest event for 1980 apparently was her 3-week trip to China in August. Starting in San Francisco, the tour took her to Japan and Hong Kong, and then to Canton and many other cities and points of interest. "Food was plentiful and we had 'Peking Duck' several times. Learned to use chopsticks fairly well. American food looked pretty good when we got home." Metha had the exciting experience of a brief reunion with a couple with whom she had attended the University of Wyoming. They were members of another tour group that happened to attend the same church service in Tientsen. \*\*\*\* Frederica Bowman, whose 1951-78 career with WRD included secretarial or editorial work on the headquarters staff of all three branches, and, later the Division's data-reporting group, is enjoying her retirement years, and has become active with the senior-citizen organization of Falls Church, Virginia.

Revoe Briggs, District Chief for California (SW) prior to his retirement in 1956, is now in the Sharon Heights Convalescent Hospital (1185 Monte Rosa Drive, Menlo Park, California 94025) and would appreciate hearing from his USGS friends. Mrs. Briggs (Jessie) may be reached at the address in the directory. Revoe joined the Portland District in 1917 and the California District in 1921. He and Jessie have been married for 62 years. \*\*\*\* Will Burnham, as principal associate in the consulting firm of Anderson and Kelly, has had another busy and fruitful year as a consultant in ground-water hydrology. Will states that, as he proceeds with "a wide variety of projects in ground-water geology that the Survey helped prepare me for," he is ever more mindful of what former GW Branch Chief, Lee McGuinness, often pointed out that "ground water is far more important in the economy and well-being of the Nation than anyone imagines." Will and Rose are deeply appreciative of the efforts that go into "WRD Retirees" and because "we are sure there are many expenses not covered by the budget, perhaps we can lighten the burden a bit." (They did so, generously - See "Acknowledgements" section.) \*\*\*\* Joe Callahan was able to interrupt his consulting activity on ground-water development in the Philippines long enough to spend the Christmas holidays with wife Marian and their family in McLean, Virginia. Joe believes that the Philippine government is more stable than one might gather from U.S. press coverage and that the recent acts of terrorism may be somewhat magnified in the reporting. He expects to finish his present assignment there in February. \*\*\*\* Joe and Jane Cragwall switched winter for summer during the latter half of January. They drove south to Miami and there emplaned for a South American tour that was to take them to Brazil, Argentina, Bolivia, and Peru. Back in Miami, they hoped to visit friends before their return to northern Virginia.

Warren and Dorothy Daniels added Australia and New Zealand to their long list of foreign countries visited. They say they had perfect weather and a grand welcome everywhere and returned home just in time to vote! \*\*\*\* Addie Davis reports that she and husband Charles are "doing more and more gem and mineral shows and despite the hard work it's something we like and we enjoy it thoroughly. Starting in January, I will be editor of one of the monthly publications. Also, Chuck and I are editor and publisher of a bulletin for Ye Old Timers Mineral Club (everyone in the club has to be over 50). The circulation is well over 500." \*\*\*\* Jack and Mary Frances Feth have had another busy year. Mary Frances spent 6 weeks in the British Isles from late June to early August after which they both took a leisurely trailer trip to Seattle. In November Mary Frances visited family members in Texas. During the year she began the organization of a school-wide science curriculum. Jack continued his part-time projects with the Survey, including a paper on ground-water mining concepts. Both have continued their organ lessons and, last spring took oil painting together. Jack won second and third-place ribbons on his oil paintings at the USGS art show.

Ellis and Dorothy Gordon began 1980 in Texas where they spent the winter. In July and early August they trailer-toured across Wyoming and on through to Yellowstone. In August and early September they travelled 8,000 miles in a van equipped for camping on a route across Canada and up the 1,620-mile Alaskan Highway to Fairbanks, Anchorage, Kenai Peninsula, Seward, Palmer, and Valdez. Spending several days salmon fishing on the Kenai River, they caught their daily limit of three fish, each measuring from 24 to 30 inches in length. After their catch was processed in a local cannery they carried home 55 cans of salmon. October brought hospital stays, surgery for Dorothy and recuperation from a mild heart attack for Ellis. As of mid-December they were planning to leave home base in Laramie, Wyoming, after the holidays to spend the balance of the winter in Texas. \*\*\*\* Milt and Pam Hackett, en route last October from a visit with daughter Cathy and family near Toronto, Canada, to the home of a cousin in Ohio, decided to stop for the night at a motel in Ashtabula, Ohio, selected from their travel guide. On arrival they found the large lighted display on the marquee bearing the words "U.S.S. Paul Hamilton Reunion." Milt had served on that destroyer as a naval officer during WWII. They were in time to join Milt's former shipmates, many of whom he had not seen since 1943, at the reunion banquet.

Our best wishes to Annie L. Hardin on her 92nd birthday on February 6. Miss Hardin was a member of the Alabama District (SW) from 1928 until her retirement in 1959. \*\*\*\* "Hap" and Fran Hayes got a "head start" on the winter season. Hap wrote on November 21 that Augusta, Maine, had about 10 inches of snow. "No major trips (in 1980) for us, but no major illnesses, either." \*\*\*\* Charlie and Florence Howard are reported to be quite well and busy as residents of Pilgrim Haven, a retirement facility at Los Altos, California. Florence often plays the piano for other residents. Charlie celebrated his 84th birthday last July. Mrs. H. B. Kinnison, mother of recent retiree Hal Kinnison, also is in residence at Pilgrim Haven. \*\*\*\* Bill and Pat Isherwood, who spend May-October in their "heavenly spot by the lake in the Maine woods," found time in 1980 for a trip to Ecuador "from the high Andes all the way 600 miles out into the Pacific to roam about on those unique Galapagos Islands. . . Now (mid-December) we are preparing ourselves (shots, visas, etc.) for an African safari for the month of February in Kenya."

Ivan and Betty Johnson attended the ASCE Annual Fall Convention in Miami where he presented a paper and had committee meetings, and visited with attendees Tom Buchanan and Clyde Conover. Later, in the Washington area, they met many more friends and Ivan visited the National Center. They then flew to North Carolina to spend several relaxing days at the beach house of Roy and Idena Hendricks before returning to Denver. Ivan has been designing a hydrologic lab in Salt Lake City for a consulting firm. The facility will make a variety of tests on soils and rock to meet the needs of agriculture, oil exploration, and other purposes. \*\*\*\* Melvin Johnson tells us that he still does some consulting work and "in my latest (3rd) trip to the Sultanate of Oman (January to May 1980) I enjoyed visiting with Bob Vorhis." \*\*\*\* Paul and Verda Johnston celebrated their 50th anniversary by visiting friends on the west coast via AMTRAK last year. Their route took them through New York, Cleveland, Chicago, and Pittsburgh. They apparently enjoyed it for they are thinking of a west-bound rail trip through Canada sometime later. At home in historic Rockville, Maryland, suburb of D.C., they find themselves in the midst of an emerging new town center.

\*\*\*\* Hal Kinnison, who retired on October 31, says that he and wife Pat will remain in the Menlo Park area where they can enjoy their nearby grandchildren. Some of Hal's former colleagues may not be aware that Hal's father, Harvey B. Kinnison (see memoir, N.L. 19) was long-time chief of the Boston District (SW) and at the time of his death in 1959 was in charge of Surface Water Branch activities for the Western Region. Fran and Lorraine Kohout rented a villa in Sarasota, Florida, for January and February but have decided that "despite the high taxes here (in Massachusetts), Cape Cod is a pretty good place to be for 8 months out of the year." Fran finds that Florida, in the tourist season, is frustrating to a golfer because the courses "are over-populated." \*\*\*\* We are happy to learn that Bill Lamar is making good progress in getting



back in shape after a stroke a year ago. He has tried skating again and goes swimming once a week as a part of his physiotherapy, with a good deal of credit due wife Dorothy for his remarkable comeback. \*\*\*\* Ed Leggat, recent retiree from the Western Regional Headquarters staff, states that he has gone back to Austin where he attended the "U" of Texas and was a member of the Texas District for about 30 years before moving to the Menlo Park area in 1977. \*\*\*\* Edwin W. "Doc" Lohr was one of the retirees attending WRD's Christmas party at National Center on December 22. Doc was chemist in charge of the QW Lab in the Washington Office for some years prior to retirement in 1960. It was WRD's only water quality laboratory for many years. \*\*\*\* Ken and Mary Love say that, after adding a room plus bath during the summer, they finally feel settled in their home in Sacramento, California.

Gail McMurtrey's life style didn't change greatly on his official retirement date of December 27. He continued full-time on a 120-day appointment with the Montana District that will take him almost to the originally planned retirement date in 1981. He and Pam hope to eventually build a home in the Bitterroot mountains. \*\*\*\* Don and Bea Milliken planned a 7-day cruise of the Hawaiian Islands on the "ocean Independence," the first week in December. \*\*\*\* New retiree Roy Newcome tells us that he and Nancy have their Sunnyvale, California, house up for sale and plan to move to South Carolina. Roy joined the Nashville District in 1949 following graduation from the "U" of South Carolina. \*\*\*\* Jack Odell and Phil Somers visited former colleagues at the National Center on October 29. It was Jack's first visit. He and Ida were on a visit east from home base in Oklahoma. \*\*\*\* Don and Helen Perkins write that: "Although we have enjoyed more than a year of retirement living in the Ozarks, it seems like four months." They have found the fishing on Table Rock Lake so fascinating that it has taken priority over golf. Their "daughter and family moved down here in July. We now have three grandsons, ages 7 and 9 years and 16 months, and they have kept us busy. We will always be happy to see any of our WRD friends if they are travelling through our area."

Joe and Eleanore Poland, appreciative of the tributes paid by the speakers at the November 18 dinner in their honor during the GSA Annual Meeting in Atlanta, were hardly prepared for the final event. During the 1930's Joe passed the oral examination and completed the course and language requirements at Stanford University for a Ph.D. in geology. But his thesis, on the then little-known phenomenon of subsidence due to groundwater withdrawal, was interrupted when he joined the USGS in 1940 and was likely forgotten as he gradually concentrated on and became an international authority on the cause and control of land subsidence. But Joe's WRD colleagues and other fellow scientists, especially Gilbert Bertoldi, Margaret Farmer, and Lindsay Swain of the California District Office did remember. At Lindsay's suggestion, Stanford University officials recently were contacted and the response was encouraging. Despite Joe's near-daily contact with the group, Margaret Farmer managed to secretly retype in the University's prescribed format, a number of Joe's reports which were selected to constitute his dissertation. WRD retiree Ivan Johnson and Central Region's subsidence researcher Francis Riley shared with two others the cost of University fees and tuition, which Stanford thoughtfully kept at the 1939 level! And with that background of events, Joe learned from the final speaker at the banquet (George Davis was toast master) that his doctoral dissertation had been submitted to Stanford and that its Geology Department has unanimously recommended his reinstatement as a graduate student. \*\*\*\* Later information reveals that, by the end of the next quarter, congratulations will very likely be in order to Joe Poland, Ph.D. \*\*\*\* Carl and Lois Pollard left Dallas on September 21 on a non-stop flight to London where they joined 23 others for a 1,600-mile, two-week guided tour of England, Scotland, and Wales. "The Loch Ness sea monster was not seen. One of the highlights of the trip was meeting two of Lois' friends who had been living several years in a

suburb of London near the Wimbledon tennis courts." \*\*\*\* New retiree John Randolph was given a big "send-off" by his colleagues of the Tennessee District on December 19. Among the out-of-town guests were Joe and Jane Cragwall and Harry and Jean Barnes. \*\*\*\* About 30 colleagues enjoyed a slide talk on China by Charlie Riggs at the National Center on December 2. He and wife Johnnie had recently returned from a tour of that country. \*\*\*\* Bill and Elsie Robinson are enjoying and keeping busy in retirement. "Elsie has been working on her photography and I am trying my hand at making furniture. I made an oak corner cabinet that I'm rather proud of." In the past year they have made a couple of trips to visit daughter Margaret at Duke University Medical Center in North Carolina and several trips to Long Beach, California, to visit son Richard. \*\*\*\* Earl Smith plans to attend graduation exercises at the University of Idaho on May 16 with more than the usual interest in one's 45th class reunion. Earl's son Nathan and Nathan's wife Nancy are to receive their masters degrees in civil and mechanical engineering, respectively. The death of Earl's mother in Idaho last August at age 92, ended the series of his annual trips there.

Bob (R. J. M.) Smith expresses complete agreement with President Walt Durum's "well written statement on volunteer work" (N.L. 29; p. 8). "Since I retired 7 years ago it has been my pleasure to help seniors in the AARP tax program and also to teach swimming to the retarded and handicapped in Palo Alto. So many organizations need volunteers and I can vouch that the experience is very rewarding. Man was not made for himself alone!" Bob and Evelyn had two enjoyable weeks on three of the Hawaiian Islands during the Aloha Festival. Highlights were driving the road to Hana, Maui, and snorkeling at Poipu Beach on Kauai. \*\*\*\* Ted (Charles T.) Snyder is Disaster Chairman for the Santa Cruz Chapter of the Red Cross and also teaches disaster preparedness and wilderness survival in the adult education program at a local college. Ted says that he recently saw the Art Pipers, but that his beard hardly provided Mrs. Piper a means for ready recognition. \*\*\*\* Lucille Stephens, now in her second career following 26 years with WRD in Lincoln, Nebraska, writes that "1980 was a very good year, antique business bustled and did some fun traveling. I enjoyed two trips to Minnesota buying antiques and visiting relatives, ten days casing the fascinating city of San Francisco, a short trip to Colorado and a month in the exciting Scandinavian Countries. We spent 2 weeks leisurely touring the country and 2 weeks on the 1,000 mile trip from Bergen to North Cape via the coastal steamer, Polarlys. Loved it."

\*\*\*\* Frank and Florence Stermitz are wintering in Mesa, Arizona, where they keep a 40ft. trailer for use during the coldest three months and where golf, swimming, dancing, and socializing fill their days. "Our lake home (near Helena, Montana), fishing, sapphire digging, and company make the summers rush by." \*\*\*\* By this time Bob and Monique Vorhis should be getting settled in Haute (Upper) Volta, a nation in the middle of the bulge of West Africa. They were scheduled to have left Georgia early in December. Bob is party chief and hydrogeologist for a rural water-supply project. Daughter Grace was to go along and spend three weeks before returning to Georgia Tech. Bob's affinity for travel may be inherited. His 90-year-old Dad recently visited the Holy Land and attended the Passion Play at Oberammergau and "enjoyed every minute of it." \*\*\*\* Good news comes from Harry Wilson who wrote on November 18 that he had just had surgery on his left eye and, after a few weeks, expected to get a lens that would permit him to see with both eyes for the first time in two years. Surgery on his right eye was completed in January 1980. Harry now plans to enjoy retirement to the fullest extent with golfing and boating his main fields of interest. \*\*\*\* Carl and Betty Yonker enjoyed having Dick and Maxine Heath with them for a few days last October. No doubt Carl and Dick reflected on the earlier years together in the Florida District before Carl began a series of foreign assignments.



Frank and Helen Ames report on a most enjoyable tour of Japan in November - a 15-day tour from Tokyo south including Nikko and Nara, some country side and other larger cities. The Japan Travel Bureau arranged for a 5-day visit on Kyushu. \*\*\*\* "The year 1980 was a milestone" in the lives of Arlington and Lily Ash as it marked the 50th anniversary of Al's graduation from the U of Michigan in February 1930, their wedding in May 29, 1930, and his e.o.d. with the USGS on December 1, 1930. Their son hosted a surprise dinner party to celebrate the wedding anniversary and, as a further celebration, Al and Lilly toured Hawaii and enjoyed it thoroughly. \*\*\*\* Erwin and Beth Asselstine enjoyed a 21-day trip to Spain this summer, rented a car and drove through the countryside. \*\*\*\* Harry Barnes, Chief of the Surface Water Branch at the time of his retirement, is attending as an Official World Meteorological Organization delegate, the WMO meeting in Beijing, China, during January 9 - February 6. \*\*\*\* Ray Bentall is recuperating well from surgery including a cataract removal and implant of a new lense in the right eye. "I'm really thankful for my improved vision." \*\*\*\* Ben and Charlotte Benson continue their retirement cruises. "After exhausting the Caribbean, we tried the Mediterranean last holiday season, the Pacific in August to Canada and S.E. Alaska including Glacier Bay. In January we take off for the Panama Canal and Acapulco for 12 days." \*\*\*\* Keith and Jean Brigham left frigid Wisconsin early in January for their winter home near Tampa, Florida. They celebrated their 50th anniversary in November with a surprise party given by their children and attended by many friends and relatives. Keith says "A real surprise that made a good year even better." \*\*\*\* Will Burnham has completely recovered from injuries received in an auto accident in late February. Rose reports being much better but still working to regain mobility in her left shoulder. \*\*\*\* Frank Clark completed his water well corrosion guide book for United Nations and it has been published in three languages.

Keith Essex, on occasion, joins other WRD retirees from Denver area at a Wednesday luncheon. Last August Keith and Vera went to Nebraska to the 60th anniversary of Keith's cousin and then to Iowa. September saw them at Lead, South Dakota, to visit the Homestake Mine where Keith went to work in 1925. In October, back to Lincoln because of a death in the family. Keith still operates the Technical Photo Service, the Technical Instrument Service and Photo Lite, Inc. He says "life has too much to offer not to take all the advantages offered." \*\*\*\* Burdge and Virginia Irelan were "off in May to Ventura for the State convention of NARFE, Burdge's retirement organization. Continuing our visits to the haunts of former California authors, we visited the interesting John Muir home at Martinez. Our next trek was to Napa Valley, known for its vineyards. From Napa we took a steep mountain road that took us down into the Sonoma Valley and Jack London country of Glen Ellen and his ruined Wolf Home in the Valley of the Moon." \*\*\*\* That veteran traveler Irene Paulsen continued her journeys with relatives and friends to Colorado's mountains several times; to Glenwood Springs and Aspen; to Pine for a week of laziness in a mountain home with a view; over Trail Ridge to the Western Slope and the north rim of Black Canyon and Gunnison. "A two-week circle tour of Utah, Nevada, and Arizona included a sparkling, crisp, blue and gold fall day across Capitol Reef, a few days in Las Vegas (I'm not richer) and a week in a vacation apartment in Sun City." In between, Irene found time to lay "forty-eight squares of brick to the patio and three six-foot steps at the porch." \*\*\*\* Merle and Audrey Schroeder took an early spring trip to Port Aransas, Texas, staying at a beach apartment for a week. In June they joined Merle's 49th High School Class Reunion in Mt. Lake, Minnesota, and visited with relatives and friends there before moving on to the Black Hills and a week in Colorado. \*\*\*\* Marvin and Priscilla Skougstad are planning a trip to Norway next summer. "Our son and daughter-in-law will go with us. We will take back-packs and tents and do some hiking and camping." \*\*\*\* Ruth Weaver was in California for Thanksgiving and at Lake Tahoe for several days of skiing with her children. On return to Virginia in January she plans to then enjoy some sun in Florida, then back to California.

## The OPM Change of Address Form, BRI 49-12, Looks Like This

<b>ADDRESS CHANGE FOR ANNUITY CHECKS</b>		<b>MAIL BY THE SECOND OF THE MONTH TO INSURE PROMPT DELIVERY OF YOUR NEXT CHECK.</b>	
DO NOT USE THIS FORM TO HAVE YOUR ANNUITY PAYMENTS SENT TO A FINANCIAL ORGANIZATION OR TO CHANGE TO ANOTHER FINANCIAL ORGANIZATION. Instead, you must use Standard Form 1199A, Authorization for Deposit of Federal Recurring Payments, which you get at any participating bank, savings and loan association, or Federal or State chartered credit union.			
PRINT YOUR NAME (First, Middle, Last)		CLAIM NUMBER CS	YOUR DATE OF BIRTH
NUMBER AND STREET NEW HOME ADDRESS		CITY, STATE, AND ZIP CODE	YOUR SIGNATURE (Sign your name--do not print)
If you have authorized direct deposit to your account in a financial organization, no change will be made in that arrangement unless you indicate that you now want your check to be mailed to your home address. If you do, write your initials in the box below.			
<input type="checkbox"/> I now want my annuity check sent to my home address.	IF YOU ARE A SURVIVOR ANNUITANT, GIVE NAME OF DECEASED HUSBAND OR WIFE		DECEASED'S DATE OF BIRTH
IF SIGNATURE ABOVE IS MADE BY A MARK (X), A WITNESS MUST SIGN AND GIVE HIS OR HER ADDRESS BELOW.			
SIGNATURE		ADDRESS (With zip code)	

GPO 862-995

BRI 49-12  
January 1980

Willie Brown, Deputy Asst. Director for External Affairs of OPM, has asked us to remind you that if you expect to move, or otherwise absent yourself, from your mailing address insofar as your CS retirement payment or survivorship annuity check is concerned, you should notify the Office of Personnel Management either by letter over your signature, or on Form BRI 49-12, "Address Change for Annuity Checks," at least 60 days before the change is effective,

if your checks are being mailed to your home address.

If the checks are being mailed to a financial institution, such as a Bank, Standard Form 1199a must be obtained from the Bank, completed and left with the Bank at least 90 days before the change is to become effective. In order to complete Standard Form 1199a, you will need your CSA Number. The form cannot be completed without this number.



## A MESSAGE FROM THE PRESIDENT

Up on the pond in the Shenandoah Valley we are taking our last licks of ice skating before the spring melting when we reluctantly shelve the skates for another year. Calving time will soon begin, and the cattle seem eager to close out the winter season and look forward to the new grass and clover.

For many retirees the sight of forsythia, crocus, and tulips signals spring and the pleasure of tending gardens and flower beds, morning walks, jogging, tennis, or a return to what is sometimes described as "that maniacal game - golf."

February also is the month when many of you begin planning for a spring break from routine. A visit with colleagues or friends elsewhere, perhaps? Why not consider a leisure trip to northern Virginia in May to coincide with the planned "WRD Golf Outing" at Reston, described elsewhere in the Newsletter? You need not be a golfer - just come and join the group for a day of visitation and loafing, and an evening meal together. And, this will allow you to revisit the Washington Metropolitan area for a day or two when the area dresses up in its finest spring colors. Walt Durum

## SPECIAL ANNOUNCEMENT

A golf outing for members and spouses is being planned for the afternoon of May 18, 1981, at the Country Club of Reston, Virginia. Teeoff time will be 1 p.m., with separate play for women and men. All players will be eligible for prizes to be awarded on basis of an equitable system of scoring regardless of your proficiency at the game. A tournament fee of about \$18 per person will cover green fee, riding cart rental, and contribution to prize fund. A social hour and dinner, dutch treat, will be arranged following play at some convenient location in the Reston area, if enough of you are interested. Please indicate your interest (need not be considered a firm commitment) by responding on the cutout response form provided on page 11 by April 1 so that our committee can plan appropriately for the expected level of participation.

## JOB OPPORTUNITIES IN INDIA

The United Nations Technical Assistance Recruitment Service (TARS) is seeking candidates for the following positions in Ahmedabad, India, for artificial recharge studies in the Mehsana Area and Coastal Saurashtra, Gujarat. These positions are: (1) Chief Expert (Hydrogeology) for 1 year as advisor, project senior hydrogeologist and liaison. Job Descr. IND-150-8-033-01-M; (2) Senior Mathematical Modeling Specialist (Ground Water) for 5 visits totaling 4 months. Information review, model development and operation for management studies. Job Descr. IND-150-8-033-02-X; (3) Ground-water Artificial Recharge Consultant for several visits totaling 18 months. Participation in planning studies, conducting field surveys, experiments and pilot operations. Job Descr. IND-150-8-033-03-X. The WRD Office of International Hydrology, (703) 860-6548, has copies of these job descriptions. More complete information can be obtained from the TARS New York rep.: Gian Carlo Treggi at (212) 754-8961.

The "WRD Retirees" officers, the members of the newsletter and business staff and those local retirees who have generously participated in the newsletter mailings, all offer their thanks for the many expressions of appreciation that have been forthcoming from those of you who, because of distance, are unable to assist. Though unable to acknowledge each of these notes and letters, we want you to know that they mean a great deal to us, for we are made aware that our time is being applied to something that you find worthwhile.



Stream gaging in southeastern Utah was being shared by Fay Hansen and Vern Bennion who alternated between Green River and Mexican Hat every four or five months. When I replaced Hansen in the early spring of 1934, I started in Green River and did not get down to Mexican Hat until June. I found then that my official duties would be easy - one daily discharge measurement and three silt samples taken from the Goodridge bridge three miles down the road from my cabin; computing both; and looking in at the water-stage recorder on the left bank several hundred yards upstream from the bridge. That's about it - say two hours a day if you did everything slowly and carefully. And yet I established a record of sorts. While others may boast of measuring maximum flood flows of the Columbia or Mississippi, I could boast (not loudly) of the all-time smallest measurement of the San Juan. Snow in the Rockies had been light that winter and the runoff of the Green and Colorado had peaked early, with unusually low maximum discharge. So I was not surprised by the falling stage of the San Juan when I arrived. My measurements could be made with a 15 lb. weight, and later by wading, until there was not depth enough to cover the current meter. Finally I built a mud dam penetrated by a piece of one-inch pipe, and I measured the mighty San Juan (drainage area 24,000 sq.mi.) volumetrically. And the next day all flow ceased, leaving nothing but isolated pools of dead and dying fish. The Survey never properly honored me for this noteworthy achievement.

Later, with so little work to do and a wife to do the housework, I thought to become a full-fledged hydrologist, not merely a hydrographer, and decided to write something for the Water Resources Bulletin. Unaccustomed to such hard mental labor, I really sweated over it, both figuratively and literally. Sitting there with only a pair of shorts on, beads of perspiration rolled down my face and dripped to the cabin floor. Though people had told me over and over again, "But it's a dry heat and you don't mind it," the thought gave me little comfort.

Finally my maiden contribution to the Bulletin was finished and on its way to Mr. Purton. It was an elaborate algebraic derivation of a rational formula for allowable range of stage in subdividing water-stage records for integrating daily discharge by hand, if I recall correctly. (What do you mean, "if", with that photocopy of the article right there in front of you?)

With all that leisure we made many trips guided by Norm and Doris Nevills - to the Goosenecks nearby, to Poncho House and other cliff dwellings, into Monument Valley as far as our car would carry us through the sand on deflated tires; and to Harry Goulding's trading post. Goulding had some lovely Navajo rugs and we bought a few. We heard how the Navajo women wove them and even how language barriers could occasionally get them into trouble. Recently a rich Colorado lodge owner had ordered a particularly large and beautiful rug, and after many months of the most painstaking labor the girl's father delivered it to the trading post. It was faultless in design and striking in contrasting colors. But centered in the design in bold red letters were the words ARBUCKLE COFFEE.

The rocks in that area have been worn into odd shapes by millions of years of rushing water and wind-blown sand, but also by the feet of countless people now long gone. One afternoon Norman took us to see two of his recent discoveries. First came what he called the Moqui Steps, a series of small indentations going up the side of a cliff. Here was where I began to suspect that Norm wanted to kill me. Inviting me to follow, he started walking up the steps as naturally as if it were a daily routine. So I followed, but when he had gone 50 feet I had gone only 10. Almost sick with fear, I decided to turn back. With nothing to hold on to, that was impossible, and Norm had to tell me where to place my feet as I went backwards to the bottom, trembling like a leaf.

Not far away was a natural pothole without a bottom. We all made the climb to see it, a smooth funnel gently curved at the top and ten feet across. If you got close to the edge you could see daylight 70 feet below. By breathtaking example Norm showed how to run around the rim so fast that you could run down into the funnel and emerge at the end of a complete circuit without sliding in and crashing to the rocks below. Centrifugal force, he explained. This time I modestly declined to follow his lead and knew that if he killed no one else he would someday surely kill himself. He had never known fear and probably never would.

Though winters were generally temperate, it could be miserably cold at times. On one such memorable day, long after all the Nevills had moved down to their new lodge near Goodridge Bridge, I had left Isabel alone while I went down there for my daily measurement and silt samples. She was going about her household tasks when she heard the faraway sounds of hoof beats. She was watching the road up toward Bluff and in time could make out, through the blowing snow, the forms of two riders herding a band of horses. As they came closer she could see they wore bandannas over their faces. Such face masks spelled trouble. Outlaws! Rustlers! One of them dismounted and rapped on the door. But when Isabel nervously opened it his appearance had altered. The bandanna had been removed revealing the craggy, middle-aged, honest face of a man you could trust. "Ma'am, could you tell me where I can find a tarpaulin so I can bed down my horses?" She told him that down the road a couple of miles was a trading post where she was sure they had one. She wanted them both to come in and get warm but he explained that his son had to stay outside and watch the horses. So she and her guest sat down by the pot-bellied stove and had a long talk about Utah. Isabel offered to make him some coffee ("... it's no trouble at all"), but he said, "No Ma'am, I'm a Mormon and I don't drink coffee, but I'll take a spot of whisky if you have it." She explained that we didn't drink. After he was warm and told her he had to move on, Isabel said, "Now send your son in so he can get warm too." The father said, "Oh no, Ma'am, he's skeered of women."

(This is a segment of an unpublished article by Member Harry W. Palm. His recollections of eastern experiences early in his WRD career (1928-42) were published in WRD Bulletin of July-Dec. 1979; Jan.-Mar. 1980. We regret that space limitations do not permit including the full text of this manuscript. Norman Nevills was an engineering aid with WRD's Utah District (SW) from 1943 until he was killed in the crash of his private plane in 1949.)



THIRD SUPPLEMENT TO MEMBERSHIP DIRECTORY (7th EDITION)

NEW MEMBERS

Bowie, James E. "Jim" ('80) (Sue), 304 Country Club Drive, Picayune, MS 39466  
Brennan, Robert ('80) (Elaine), 2380 Garland Ct., Lakewood, CO 80227  
Brown, Eugene (Birdie), Rte. 1, Box 1780, Ft. McCoy, FL 32637  
Counts, Harlan B. ('80) (Margaret), 3100 Cleethorpes Dr., Lithonia, GA 30058  
Farrell, Donald V. ('80) (Mary), 131 Mill Pond Drive, Brewster, MA 02631  
Feulner, Alvin J. ('80) (Catherine), P. O. Box 1633, Homer, AK 99603  
Frye, Prentis M. ('80) (Dorothy), Route #3, Box 283A, Dandridge, TN 37725  
Hoggatt, Richard E. ('80) (Mae), 3709 N. Emerson Ave., Indianapolis, IN 46218  
Johnson, Mrs. Elnora E. ('80) (Homer), 3821 Warren Ave., Cheyenne, WY 82001  
Kam, William ('80) (Lila), 27 Canyon Road, Levittown, PA 19057  
Kinnison, Hallard B. ('80) (Patricia), 13384 Pastel Lane, Mountain View, CA 94040  
Kreiger, Robert A. ('80) (Ruth), 3938 Briarridge Circle, Doraville, GA 30340  
Leake, Mrs. Frances P. "Billie" ('75), 1022 N.E. 13th St., Ocala, FL 32670  
Leggat, Edward R. ('80), 2004 Wooten Dr., Austin, TX 78758  
Mack, Frederick K. ('80) (Jeanne), 19 Second St., Greenwood Acres, Annapolis, MD 21401  
McMurtrey, Gale ('80) (Ardath) (former Affiliate), 432 Dearborn, Helena, MT 59601  
Mitchell, Dale V. ('80) (Betty), 211 N. Vann St., Pryor, OK 74361  
Morris, Frank O. ('78) (Hazel), Boiling Spring Lakes, Southport, NC 28461  
Newcome, Roy, Jr. ('80) (Nancy), 887 Lansdown Ct., Sunnyvale, CA 94087  
Peek, Charles O. ('80) (Ahlene), Box NBU 2203, Green Valley, AZ 75614  
Petri, Lester B. ('80) (Donna), 8007 Talbot Trail, Lincoln, NE 68520  
Randolph, W. John ('80) (Margaret), 7517 Lakeview Drive, Nashville, TN 37209  
Sigafos, Robert S. ('80) (Irene), 910 McDaniel Ct., Herndon VA 22070  
Skougstad, Marvin W. ('80) (Priscilla), 1000 Alkire St., Golden, CO 80401  
Summers, Mrs. Arlene P. ('80) (Gale), 5745 Gladstone St., Lincoln, NE 68507  
Wollin, Ernst ('80) (Currie) (Former Affiliate), 715 Hedrick Dr., Statesville, NC 28677  
Woodall, Donald W. ('76) (Mary H. "Betty"), 101 Fairway Drive, Helena, MT 59601  
Youmans, Mrs. Margaret L. ('66) (George), 832 NE 42d Terrace, Ocala, FL 32671

REVISIONS TO DIRECTORY OF MEMBERS

Bennett, Mrs. Robert R. (Mary Anne) (W), 264 Shoreline Drive, New Bern, NC 28560  
Burnham, Willis L. ('76) (Rose), 3220 Victory View Drive, Boise, ID 83709  
Canzona, Mrs. R. Berniece ('78), P. O. Box 464, 19 Wilderness Way, Pahrump, NV 89041  
Conlin, Mrs. Helen W. ('68) (John H.), 2923 S. 9th St., Deming, NM 88030  
Cooper, James B. ('74) (Phyllis), 3820 Anderson Ave., S.E., Albuquerque, NM 87108  
Feth, John H. ('79) (Mary Frances), 654 Nola Lane, Los Altos, CA 94022  
Lathrop, Mrs. Norma E. ('73), 41 Independence Ave., Apt. 111, Braintree, MA 02184  
Miller, Mrs. Tom O. (Thelma) (W), 108 Clearwater Ave., NE, Salem, OR 97301  
Vorhis, Robert G. ('74) (Monique), Ouagadougou (ID), Department of State, Washington, DC  
Waite, Herbert A. ('70) (Margaret), 2642 Starcrest Drive, Boise, ID 83702 20520

NEW AFFILIATES

Clebsch, Alfred, Jr. (Albina), 50 Hoyt St., Lakewood, CO 80226



## IN MEMORIAM

Robert R. Bennett, who directed WRD's ground-water research program at the time of his retirement in 1973, died December 1 in New Bern, North Carolina, after an extended illness. He was a WAE member of the Division's research project office in Raleigh, North Carolina, at the time of his death. Bob was born in 1913 in Kansas City, Missouri, and graduated from the University of Nebraska in 1935. He joined the Texas District (GW) in 1937, transferred to Baltimore in 1942 and became the first District Chief (GW) for Maryland. In 1953 he transferred to GW's National Headquarters staff in D.C. to become chief of research. He was a pioneer in many of the modern ground-water methodologies and concepts now generally employed in the science. He led the Division into modeling methods, he first applied flow-net analysis to ground-water systems, he designed and built the prototype hydrologic geophysical logger, and he probed the functional nature of permeability (petrophysics). But, his notable personal accomplishments notwithstanding, Bob's greatest contributions lie in the research incentives and professional standards he fostered throughout the Division, and indeed among the hydrological community at large. Though gentle in voice and manner, he was a highly influential and brilliant technical leader. Mrs. Bennett (Mary Anne) resides at 264 Shoreline Drive, New Bern, North Carolina 28560. Contributions may be made in Bob's memory to the Hydrogeology Division, Geological Society of America, in support of the Society's Distinguished Lecture Series in Ground Water Hydrology conducted by the Division. Contributions may be sent to Roger G. Wolff, Deputy Assistant Chief Hydrologist for Research and Technical Coordination, Water Resources Division, USGS, 413 National Center, Reston, Virginia 22092. Mary Anne feels that such a memorial action is highly appropriate considering Bob Bennett's special devotion to the education and training of hydrogeologists. (By Gerald Meyer)

Eno G. Giacomini, in charge of compilation and publication of water-data reports of the Minnesota District and also of its St. Paul field headquarters, died October 5 of a heart attack. Born in Duluth in 1925 and a graduate of the University of Minnesota (BS,CE) in 1949, Eno joined the District in 1953. He was largely responsible for great improvements in format and more expeditious publication of District data reports. For the past two years, Eno was also District sediment specialist and was senior author of the recent report on the red clay area of northeastern Minnesota. Mrs. Giacomini (Carol) resides at 235 W. Poplar St., South St. Paul, Minnesota 55075. They have three children.

Oren O. Holmen, in charge of the Grand Forks, North Dakota field headquarters, was killed on September 1 when struck by a tree he was cutting down. Born in Grand Forks in 1938, Oren joined the local WRD-SW staff in 1963 and remained there for the balance of his career. In 1970 he graduated from the University of North Dakota with a major in geology. Oren was coauthor of a recent inter-district (ND-MN) flood report on the Red River. He was an extremely cooperative and competent hydrologist who was well liked and respected by his staff. Mrs. Holmen (Charlene) and 4 1/2-month-old son Christopher are now living at 214 No. Franklin St., New Ulm, MN 56073. In memory of Oren, savings bonds are being purchased for Christopher with money donated by Survey personnel. Contributions are being received by Rus Harkness, c/o U.S.G.S., 821 E. Interstate Ave., Bismarck, ND 58501.

Tom O. Miller, a supervisory hydrologist with the Menlo Park subdistrict at the time of his retirement in 1969, died on September 5, 1980, of cancer. A graduate of the State University of Oregon in 1930, Tom began his Survey career with the Boise District (SW) in 1934. In 1954, he transferred to the San Francisco District (SW) and in 1957 to Menlo Park. Tom was admired and respected by his colleagues for his dedication to the need for reliable and accurate stream-flow records. In addition to his prodigious personal output, Tom stimulated and trained many younger hydrologists in



this field. Tom and Thelma moved to Salem, Oregon, in 1976 because of his health and to be near son James and family. They celebrated their 50th wedding anniversary last June. Tom is survived also by his daughter Verdi Aldell, his sister Verdi and 3 grandchildren. Thelma may be reached at the family home, 108 Clearwater Ave., N.E., Salem, Oregon 97301.

John Savini, Chief of the Spokane Subdistrict Office at the time of his retirement in 1977, died November 3, 1980, in Spokane, Washington. He was born in 1917 in North Hanover, Massachusetts and attended North Carolina State College from 1936-40. Mr. Savini served with the U.S. Army and was a veteran of World War II. He joined the staff of the Washington District in Tacoma in 1946 and transferred to the Spokane Subdistrict in 1965. After his retirement, he enjoyed traveling and gardening. He is survived by one son in Bellingham, Washington, one daughter in Hampton, New Hampshire, and one daughter in LaGrande, Oregon; two brothers, two sisters, and six grandchildren. (By L. S. Malovich)

Gladys Alberta Wills, an editorial assistant engaged in the processing of WRD data-type reports at the National Center at the time of her retirement in April 1979, died of cancer at a nursing home in Arlington, Virginia, on November 30. Born in Elizabeth, West Virginia, in 1908, Mrs. Wills had performed clerical work for one or more other agencies before joining the Headquarters staff of WRD's Technical Coordination Branch in 1956. She was engaged in SW's basic data processing activity from mid-1956 to 1959 when she began work on surface-water reports. In 1967, the reports functions were consolidated under the Division. "Bertie," as she was known to her associates, was a steady and highly dependable worker who in her 23 years with the Survey, expedited the completion of hundreds of reports. It is understood that she is survived by a son and three sisters.

Clyde A. Wilson, Field Headquarters Chief, Las Cruces, New Mexico, died on October 11. He was born in Arizona in 1932, and grew up in Carlsbad, New Mexico. He served with the U.S. Air Force during the Korean War and remained active in the reserves for many years. He received BS and MS degrees in Geology from Texas Tech University, and a MS degree in Hydrology from the University of Arizona. Clyde began his employment with the USGS in Austin, Texas, in 1962, and worked at various places in the Texas District until being transferred to Las Cruces in 1971. He was chief of numerous projects in southern New Mexico, the latest of which was a study of the San Agustin Plains. A memorial fund is being established at the New Mexico State University, Las Cruces, and anyone who would care to contribute to the fund should contact Robert White, c/o U.S.G.S., P.O. Box 26659, Albuquerque, New Mexico 87125.

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To: WRD Retirees, c/o USGS, 439 National Center, Reston, Virginia 22092  
Subject: WRD Retirees Golf Outing, May 18, 1981

\_\_\_\_\_ I plan to participate in the golf event  
\_\_\_\_\_ My spouse (or friend) plans to participate also  
\_\_\_\_\_ I favor a social/dinner affair for the evening of May 18.  
Tentatively count on me for \_\_\_\_\_ reservations. (Guests welcome)

Signed \_\_\_\_\_

Address \_\_\_\_\_

Telephone \_\_\_\_\_

PLEASE RESPOND BY APRIL 1, 1981



## FINANCIAL SUMMARY FOR 1980: OUTLOOK FOR 1981

Treasurer Sumner Heidel reports that we started 1980 with a carryover of \$1,163 and received dues and contributions of \$1,895 (monies received by Treasurer by December 31, 1980). The cost of printing the four 1980 newsletters and directory (7th edition) was \$1,234. Direct payments to the U.S. Postal Service for bulk mailing and permit were \$300. The remaining 1980 costs for postage (mailings to new members and movement of material between officers and editor), supplies and modest gifts for WRD typists on newsletter preparation totalled \$186. This left a balance of \$1,338 that we carried into 1981.

This carryover, reflecting the generous contributions of many members in addition to requested dues, places us in a sound financial position for the coming year, although increases in postal rates and printing costs may be expected. Since our acknowledgment in the previous newsletter, through January 9, 1981, we received \$417.50 in special contributions. Thanks to the following for these most recent contributions of up to \$100: Willis Burnham, Fred Trauger, Alfred Johnson, Nevin Hoy, Early Miller, Arlington Ash, Art Westfall, Walt Durum, Prentis Frye, Gordon Giles, Fran Kohout, Frank Ames, Earl Bailey, Larry Bodhaine, Joe Callahan, Bill Cross, Jack Feth, Hap Hayes, George LaRocque, Gale McMurtrey, Roy Newcome, Doc Pride, Bill Robinson, Irv Rorbaugh, Ernest Sieveka, Robert E. Smith, Frank Stermitz, Bob Throckmorton, George Whitaker, Al Wilson, Harry Wilson, Keith Essex, Dave Barton, Art Frazier, Herb Waite, Eugene Brown, Joe Cragwall, Bill DeVito, Theron Dosch, Don Hart, Hank Halberg, Frank LeMert, Ken Love, Ray Nace, Saul Rantz, Stuart Schoff, Lucille Stephens, Robert J. Smith, Alcee Turcan, Margaret Woods, Louis Bjorkland, Warren & Isabel Hastings, Lura McLain, Helen Conlin, Bob Brennan, Keith Brigham, James Cooper, John Ferris, Frances Gilliland, Fred Green, Lynn Hull, Hal Kinnison, Ed Leggat, Charles Peek, Don Perkins, Earl Smith, George Williams, and Glen Wyrick.

### OTHER ACKNOWLEDGEMENTS

Our gratitude to the following who collated, stapled, folded, and processed for mailing or distribution, 800 copies of the preceding newsletter (November; No. 29) on October 29: Bob Beall, Joe Cragwall, Walt Durum, Jim Geurin, Milt Hackett, Isabel and Warren Hastings, Sumner Heidel, and Ruth Malone.

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