

"WRD RETIREES"

NEWSLETTER NO. 63

MAY 1989

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

National Officers: Robert M. Beall, President; Russell H. Langford, Vice President;
Ruth L. Malone, Secretary; Sumner G. Heidel, Treasurer

Regional Officers: Alfred Clebsch, Jr., Central; David McCartney, Northeast;
Donald G. Jordan, Southeast; Loren E. Young, Western

Newsletter Staff: Porter E. Ward, Editor; William J. Schneider, Assoc. Editor;
Francis T. Schaefer, Asst. Editor; George E. Ferguson, Editor Emeritus

1990 Reunion Coordinator: Richard C. Heath

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PRESIDENT'S MESSAGE

Now that spring has arrived, many of you are either on the move or actively planning to do so. The rest of us will tend lawns and gardens in our resort of last resort. Whatever category you may be in we are asking you to think also about next year.

Plans have been underway since last fall for the 1990 Reunion in Orlando on November 11-15, 1990, which will be associated with the Sixth National Conference of WRD.

Dick Heath has enthusiastically taken on the coordinator task and is in the process of enslaving other Florida retirees to assist. However, your help is needed also, even at this early stage. Orlando is a thriving center of activities and a number of supporting services must be planned far in advance of their actual use. Thus, Dick and his committee do need some notion of the activities in which you have an interest besides, of course, the reunion.

Please use the questionnaire on the inside of the back cover of this Newsletter as a response form to provide this preliminary information.

Bob Beall

IT IS WITH BOTH SORROW AND REGRET THAT WE INFORM YOU OF THE DEATH OF PAT WARD, THE WIFE OF THE EDITOR OF YOUR NEWSLETTER. PAT DIED IN AN AUTO ACCIDENT IN GREENSBORO, NORTH CAROLINA, ON MARCH 23RD WHEN SHE AND PORTER WERE RETURNING FROM A TRIP TO FLORIDA. WE ALL EXTEND OUR CONDOLENCES TO THE FAMILY.

QUESTIONNAIRE RESULTS

As of April 10, the cut-off date for this Newsletter, 79 of the 931 mailees have responded to the questionnaire on page 2 of the February Newsletter. Following is a summary of the responses:

Item	High	Moderate	Low	Total
Key Personnel Changes	27	40	8	75
Recent Retirements	60	15	4	79
WRD News	34	31	12	77
Bureau News	14	38	20	72
New Publications	9	16	7	22
Special Articles from Retirees	45	30	1	76
Special Articles from Active	31	37	7	75
News of Retirees	71	8	0	79
In Memoriam	59	17	2	78
Memoirs	55	15	5	75
Local Retiree Gatherings	35	29	12	76
Special Acknowledgements	26	34	10	70
Treasurer's Report	15	31	26	72
Directory Supplement	56	15	3	74

Several observations can be made from these responses. First of all -- as was expected -- the principal interest is in the activities of retirees. More than three-quarters of the responses showed high interest in the five items that directly relate to the retirees per se. Moderate-to-high interest was expressed in the three items related to current WRD activities. Considerably lesser interest was shown in the Bureau News, with about one-third of the responses showing low interest.

The low totals for the item on New Publications can be attributed to the fact that the spaces were not underlined and thus many respondents did not express an opinion. Totals for the items vary, because a number of responses checked only "high" or "moderate", thus leaving the lines for some of the items blank. To sum it up in the words of the Academy Awards ceremony -- "and the winner is -- News of Retirees!!!"

VOLUNTEERS RESTORE HISTORIC FORT

While at the Bellevue Reunion, your editors had the opportunity to talk to Chuck Collier about his interest and participation in the restoration of Fort Steilacoom in the Puget Sound area. At our request, Chuck has provided us with the following narrative on the restoration project.

Fort Steilacoom was established by the U.S. Army in 1849 to protect American interests in the Puget Sound area of Washington. Located near the settlement of Steilacoom and about 6 miles north of the British Hudson Bay Company's Fort Nisqually, Fort Steilacoom soon became the social and economic center for the area.

In 1857-58 the fort was rebuilt. A Lt. Kantz was the quartermaster-in-charge and hired local settlers as the carpenters. His journal, which is still available today, documents a number of interesting problems with the sawmills, the workers going on strike demanding \$6.00 per day, losing a partially-completed roof during a windstorm, difficulty with soft bricks, etc. Apparently each lead carpenter built the buildings the way he wanted as there are three types of construction. Two of the houses are built in bays with the 3 x 4 studs nailed directly to the rafters and floor joists with no upper or lower plates.

The Commanding Officer's quarters has outer walls of 3 x 4 studs morticed into 4 x 6 beams at the top and 8 x 12 beams at the bottom. Each corner has diagonal 4 x 4 bracing that is morticed and pegged with wooden pegs. The spaces between the studs are filled with brick and mortar, called nogging, with a 1 x 4 horizontal board about every 3 feet to hold the weight. This house, 3200 square feet, has hand split cedar lath and plaster downstairs, and wooden walls and ceilings upstairs. The upstairs walls are of 1 inch tongue and groove fir, varying in width from 4 to 7 inches, laid horizontally and with no end joints or knots. All the houses have wooden walls and ceilings upstairs and plaster downstairs. All were heated with fireplaces, very shallow and without dampers; 8 in the CO's quarters and 4 each in the other houses. The exteriors were cedar siding laid horizontally.

The Chaplain's quarters and chapel have wood-on-wood construction for the outer walls. The walls have a layer of vertical planks on the outside nailed to a layer of horizontal planks on the inside. These are all about 2 inches thick and up to 22 inches wide. The planks were then covered with cedar siding on the outside, and lath and plaster on the inside. The 2 x 10 joists between the ceiling and upstairs floor are notched into both layers of planks and run the full 24 foot width of the building.

In 1868 the fort was abandoned by the Army and given to Washington Territory. The buildings were used for hospital wards and housing, and have undergone several remodelings over the years. Four officers quarters are all that remain of the oldest group of buildings in Western Washington. These had been empty for more than 20 years and had severely deteriorated. In 1983 the houses were placed on the National Register of Historic Buildings, and the Historic Fort Steilacoom Association was formed to restore them. Funds and materials have been provided by donations and grants from businesses, individuals and Foundations.

The actual restoration is being done by five volunteers with both military and civilian experience and a lot of help from others. We have used two VoTech schools to install the electrical service, heating system, duct work and security systems. The apprentice programs from the brick layers union rebuilt three chimneys and both the carpentry and painters unions have helped at times. We supply the materials and these groups are happy to have building to train on. Three Boy Scout troops have helped us and we have provided the community projects for six scouts for their Eagle rank. The Sea Bees Reserve Battalion sends us a crew one weekend a month and two units from McChord Air Base have helped. We even worked with youths assigned to community service by the Juvenile Court.

To get back to the original painted walls in these houses, we have removed as many as 11 layers of wall paper. On the wooden walls we also removed a layer of felt or fiber board that is both glued and tacked (thousands of tacks). The original floors were 6 inch fir, another 3 1/2 inch fir flooring was laid about 1910 and that was topped with a 2 inch maple floor in the 1930's.

One house is to be a museum and furnished as the home of an officer and his family in the 1860's. This we have attempted to put back to its original condition, both inside and outside. The others, as with all National registry buildings, are being finished as they were originally built on the outside, with the interiors made useable for offices and meetings for small groups.

We have enjoyed working with the students, scouts and young military personnel. The scheduling of the work and material gets a little frantic at times, but we somehow manage to keep things moving. We are nearly finished with the third house, and hope to complete the project next fall.

(Editors Note: Chuck was the organizer of the early restoration effort in 1983 and has been one of the five volunteers throughout the effort. Both he and his wife, Pat, have served on the Board of Directors of the Historic Association; Pat is currently its vice-president.)

PROGRESS REPORT HISTORY OF WRD, VOLUME VI, 1957-66

The principal authors, Hugh Hudson and Joe Cragwall inform us that in the 14 months since the start of the effort, substantial progress has been made in all four major phases of the project--videotaping interviews with former WRD and bureau officials, searching for and retrieving old WRD files, enlisting volunteer writers, and drafting sections of the report.

Under Ben Jones' leadership as producer/director, interviews with Bob Lyddan, Luna Leopold, Frank Clark, Roy Hendricks, Milt Hackett, Al Fiedler, Tom Maddock, Jr., Hal Langford, George Ferguson, Charlie McDonald, Gerry Parker, Sr., and Ken Love have been videotaped. Other interviews, including those with Harry Wilson, Elwood Leeson, Phil LaMoreaux, Ken Phillips, Walt Durum, and Finch White, will be videotaped in the near future.

Joe Cragwall, George Edelen, and Charlie Riggs have completed an intensive search of WRD, National Archives, and Record Center files, and retrieved numerous documents relevant to the project.

Drafts have already been received from fifteen of the small army of volunteer writers who have been enlisted to prepare sections on district activities. Progress has also been made on enlisting the assistance of another corps of volunteer writers for a section on Special Programs and Projects.

Drafts of the Introduction, Leadership, and Budget and Appropriations sections of Volume VI have been completed or nearly completed by the principal authors, as well as a summary of the International Program by Bob Beall.

The authors are striving to complete the manuscript for Volume VI by about the end of next year for submission to WRD and publication thereafter.

(Editors Note: The manuscript for Volume V (1947-57) of the History is now under final editorial review by the Division prior to scheduling for publication.)

BUREAU NEWS

The name of Dallas Peck has been submitted by Secretary of the Interior Lujan to the President for approval as Director of the Geological Survey. As of April 10, the cutoff date for this newsletter, no action has been taken.

DIVISION NEWS

Vernon B. Sauer is the recipient of the Federal Engineer of the Year Award presented annually by the National Society of Professional Engineers and has been designated as the USGS Engineer of the Year.

John D. Hem has been recognized for his 50 years of outstanding Federal service in a letter of congratulations from President Reagan.

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Frank and Helen Ames continue their volunteer work at Lutheran Medical Center in Wheat Ridge, Colorado. They cruised around the Hawaiian Islands on the S.S. Constitution and report a great trip.

Glen Anderson, Vernal, Utah, notes that retirement enables him to stay inside during the deep freeze and to avoid chopping ice. He wants spring to come so he can get on with his golf and fishing.

Warren and Helen Anderson report (as of early January when most non-Floridians were shivering) that their azaleas "were gorgeous due to an unusually good winter" and that golf and lawn care keep Warren busy. Old timers may recall knowing Helen (Jones) when she was secretary to Carl Paulsen, WRD's Chief Hydraulic Engineer in the 1950's.

Emil and Dorena Beckman traveled through Minnesota and Wisconsin last fall visiting friends and relatives between St. Paul and Appleton, where they participated in the 40th wedding anniversary for Dorena's niece.

Clark and Anna Benson announce their move from Tucson to Ridgecrest, California. They are now near their grandchildren, son, and his wife's relatives.

We note with pleasure that Justin A. Bettendorf (Bud) was honored with a Life Membership award in the American Society of Civil Engineers. We are sorry to report that because of illness Bud was unable to attend the Awards Banquet at the Fort Myer Officer's Club in Arlington, Virginia, on March 14.

A retirement luncheon was held on March 31 for Margaret A. (Maggie) Bloomberg of the Central Region Administrative Services Section. Maggie has made major contributions to the work of WRD, as administrative officer for the South Dakota District and the

Denver Central Laboratory and as a staff member of the Regional administrative office. Maggie retired on March 31, 1989.

Bill Broadhurst reports from Oklahoma City that he underwent cataract surgery with implants. He can now read the highway signs so they may take to the motor home road again. Incidentally, he has sold the farm at Muleshoe, Texas.

Richmond Brown reports having helped his son build a new house in Roseville, Minnesota, last year. He mentions brief visits with Dale and Gerry Cotter and with Bill and Marcine Drescher. Dick has a restored BSA motorcycle on which he makes short trips in northern Michigan.

Abe and Jane Cameron attended their granddaughter's engagement party in Dunwoody, Georgia, in March. A nice added attraction was visiting with Jeff Armbruster and other Georgia District personnel (affectionately known to Abe as the Georgia Mafia) and meeting with retirees Harlan Counts and Fred Carter.

Al and Al Clebsch tried out Eldershotel at Marble Canyon, Arizona, in late March, including a short float trip below Glen Canyon dam. Despite the great scenery, and congenial fellow students, the retired hydrologist was not entirely satisfied with the instruction in geology.

Dave Dawdy reports continuing activity on the impact of Glen Canyon reservoir on the beaches and ecology. He is also involved in the Kesterson Reservoir hearings that involved much controversy among USBR, Lawrence Berkeley Laboratory and the State Water Resources Control Board. Dave has also been involved extensively in modeling inflow to San Francisco Bay.

Anita Flack reports a good life. She shares her home, and chores, with her oldest and youngest daughters and an adorable (what else?) grandson. Anita notes 3 granddaughters, 5 grandsons and a great grandson, all in the

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Leesburg and general Washington metropolitan area.

Ellis Gordon further reports that wife Dorothy, who had both knee joints replaced last November, now walks a mile or more at a time. Her only regret is that she didn't have the work done sooner.

The Herald Tribune of Grand Rapids, Minnesota reported a letter from a grateful motorist, last December, who had slid into a ditch because of glare ice conditions. Within a few minutes a "wonderful couple" stopped and drove the stranded motorist to his home in Deer River. The couple was Bill and Bonnie Gothard. Bill is employed in the USGS office in Grand Rapids. We applaud the action of Bill and Bonnie in assisting a motorist in trouble.

Dick Hadley still teaches part time at Denver University. He has just completed editing the Proceedings for the Third Scientific Assembly of the IAAS in Baltimore this month. His symposium was on "Science and the Environment".

Hank and Edith Halberg tell us that "a whale of a trip" in February lived up to expectations. They spent six days along the lower Gulf of California and Pacific where they report seeing more than 200 whales and several hundred dolphins. Hank says that when they were there, the Pacific was not very pacific.

Cavis and Dorothy Ham managed a trip to Vermont last summer to visit relatives. In August Dorothy's severe eye problems forced them to cancel their planned trip to the Seattle reunion.

Tom Hanly states that while he had hoped to attend the Bellevue reunion his doctor did not agree.

E.J. (Ned) Harvey reports that the date and place of the monthly retirees breakfast in Rolla has been changed. It will be held on the first Tuesday of the

month at 8 a.m. at Shoneys Restaurant on Martin Spring Drive on the west side of town.

Howard and Norma Haworth with a nephew and friend made a trip to Singapore and Bangkok where Howard was stationed from 1955 to 1964.

Jim and Maggie Hellyer-Malesky began their Elderhostel year with a week at Suttle Camp, 13 miles west of Sisters on the Santiam Pass, for a week of cross-country skiing and classes in outdoor photography and natural resources. In March an Elderhostel in Alaska started with a plane trip to Juneau, 4 days in Juneau and 4 days returning to Seattle on the Malaspina, ship-ferry of the Alaska fleet. A magnificent 15-minute display of Northern Lights was one of the highlights of the week.

We note that John Hem, Menlo Park, who is still an active employee, has received a letter from President Reagan in recognition of his completion of 50 years of Federal service with the U.S. Geological Survey. Congratulations John.

Joe Holm has become a global traveler. He bought a coat and tie, stored his fishing tackle and guns, and is following his wife, Betty, who is now a local business executive, on many business trips. The extent of this newly-found activity and Joe's taste for it can be judged by the fact that he has not attended the monthly Baton Rouge WRD Retirees breakfast meetings since December--Joe usually does not miss.

Jim and Eva Hood traveled through much of the Midwest and Southeast last fall and then back through Texas to Utah. They have established that Hoods were in America in time to help in the American Revolution. Eva's forebearers seem to have been early arrivals, also.

Hugh and Becky Hudson have recently returned from a major trip, beginning with a visit with their son in London, and

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continuing to India, Sri Lanka, India again, and Nepal, before returning home.

Leon and Verda Jensen spent two weeks in Florida in February, touring from Orlando through the Keys and over to the west coast. A highlight of the trip was a visit to the plush Boca Raton Club where Leon did his basic training in the Air Force 46 years ago. After seeing the place, Verda says she no longer will feel sorry for the "tough" time Leon had in basic training. They also visited an old Air Force buddy of Leon's in Sarasota whom he hadn't seen since 1946.

Ivan Johnson has taken on two new jobs -- Vice Chairman of the Board of Trustees for the Institute for Standards Research and Member of Board of Directors for the American Society for Testing and Materials, both headquartered in Philadelphia. He also has been serving as Chairman of the IAHS Third Scientific Assembly to be held May 10-19 in Baltimore, Maryland.

Mel Johnson, who is working on flood studies in Oman, will probably be back to Helena this summer.

Joel and Carolyn Kimrey report from their new home in Al Ain, Abu Dhabi Emirate, that they moved from Florida last August. Joel is in charge of a project to evaluate ground-water resources in the Emirate, a study expected to take 4 years to complete.

Hal & Jean Langford, along with Porter & Pat Ward toured New Mexico for a couple of weeks in late January. During this time, they attended an Elderhostel program in Las Cruces, New Mexico.

Carl and Muriel Lawrence enjoy savoring the west from their new home in Oregon. So far they have participated in a 10-day Sierra Club trail maintenance trip in California, demonstrations at the Nuclear Test Site near Las Vegas, and a raft trip on the Deschutes River.

Stan Lohman has been elected an Honorary Member of the American Water Works Association. In his absence, the award was received by past president Ivan Johnson at the annual awards luncheon in Milwaukee on November 8, 1988, who in turn presented it to Stan at a regular Wednesday "Retirees" luncheon in Lakewood, Colorado, on December 14. Stan also was pleased to learn from Chuck Appel that his USGS Professional Paper 708 on "Ground-Water Hydraulics" was reprinted for the fifth time early in 1989; previous printings were in 1972, 75, 79, and 83. Stan thanks Chuck for correcting an error in equation (96) and for sending copies of the 1989 printing.

Marlin Lowry has not renewed his contract with Oman, and, as far as we know, has returned to Wyoming.

Glen A Miller and Associates announce their new offices at 743 Horizon Court in Grand Junction, Colorado.

Willard and Peggy Mills continue active in their church work. Willard volunteers in the Oklahoma City office to assist in surface-water records. He notes that computers don't do as much of the work as might have been expected.

Dee and Colleen Molenaar visited New England during the fall-coloring peak last October. Among the highlights were visits to friends in NJ, CT, MA, VT, and NH, and a trip via the Mt. Washington Cog Railroad to the snow-covered summit. Also, Dee was happy to finally see publication of WSP 2265, a multicolored layreader coverage of the Spokane aquifer--after 6 years "in press".

John and Jessie Monis continue an active schedule of travelling with Ports of Call, visiting Manzanillo, Mexico, in February and Oahu in March.

Charles O. Morgan reports from Oman that he expects to be back in Boulder

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City by the time this issue reaches you. He has a consulting practice there. Charlie reports on others from Oman -- the notes are alphabetical in this News of Retirees.

Dick and Edythe Murray will be celebrating their 52nd wedding anniversary this month (May). Edythe reports that Dick remains well, and walks around the yard several times a day for exercise, but has not regained his speech or ability to write which he lost as the result of a stroke.

After two and a half years as a dedicated volunteer worker in an Elementary Public School Library, working about 700 hours per school year, Ada Rich "retired" again in October 1988. Then for the second time, she came out of retirement to accept an appointment as Administrative Assistant to the Louisiana State Board of Cosmetology. This agency monitors, regulates, and controls the cosmetology industry in the State of Louisiana. She says she is enjoying the challenge!

After two retirements, Claire Richardson notes that she is now wearing a Maryland Geological Survey hat as an editor of MGS and USGS reports and maps. She manages occasional trips to New England and keeps in touch with Ed Otton and Ken Taylor.

Paul B. Rohne, Jr., retired from the International Boundary and Water Commission on December 31, 1988. With his USGS and Navy service, Paul had a total of 31 years of Federal Service.

On his way home from the mailout of the February Newsletter, Bill Schneider skidded off the road into a utility pole. Although the car was totalled, Bill luckily came away with only a fractured rib and broken wrist, from which he has fully recovered.

Audrey (Mrs. Merle) Schroeder tells us that her daughter, Mae Fern, graduates

from the University of Arkansas in May, receiving her BA in 3½ years. She also writes that she has just returned from a trip to New Orleans and Texas, where she toured her company's facilities. She has a part-time business with Tower Living Products.

Lula Smith reports a good 1988. They went to husband Ed's 50th high school reunion in Columbus, Nebraska, and visited scattered relatives ending up in Lincoln, where his sister-in-law is involved in a WW II veterans' display being developed for the state museum.

Dick Sniegocki received a visit from Doug Bedinger during spring break at University of Nevada at Las Vegas. Dick, Doug, and Guy Bearden spend some time at Oaklawn Racetrack in Hot Springs, where, according to Dick, "they helped pay our taxes in Arkansas, under protest." Prior to Doug's visit, Dick spent a week in the hospital with a slight recurrence of a heart problem.

Jim Snyder notes that wife Irene is recovering from foot surgery with satisfactory progress. They hope to make it to Orlando in '90.

Charley Sullivan reports continuing bouts with arthritis (we hear this frequently) but that he and his wife Erma still travel extensively via motor home throughout the U.S. and Canada.

Mack Stewart has a new nursing home--Sterling Place, 3880 North Boulevard, Baton Rouge, Room 3880. His mailing address remains unchanged, c/o Mrs. Mack R. Stewart (Ellen). Mack's condition is about the same as last reported--he requires attention 24 hours a day. At times, Mack seems to know some of his friends and understand what they say to him, but his attempts to uphold his end of the conversation are usually futile.

Don Thomas suffered a mild heart attack back in March. We are pleased to note that after an angioplasty

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procedure he is back home and working on his income tax--be careful, Don.

Dick and C.J. Wells vacationed in Yucatan where they visited the ruins at Chichen Itza and Ushmal and enjoyed scuba diving and fishing at Cozumel. Dick states "one red snapper caught--rod and reel yanked overboard, boat captain did not want to lose the rod and reel so he dove overboard, recovered rod and reel in 30 feet of water, came to surface, handed rod to C.J., who reeled in the snapper."

Frank Wilder was in charge of test drilling in northern Oman, a project scheduled to end in February, after which he and his wife Jean will make a lengthy trip back to the States.

George and Clara Whetstone will attend (will have attended by the time this appears) an Alaska Day reunion in Yuma, Arizona. It is a gathering for those who worked in Palmer, many of whom spend the winter in Yuma. They report seeing Roy and Idena Hendricks

and that they expect to see D.J. (Ceedy) and Kay Cederstrom in Prescott while they are in Arizona.

Don Wiesnet reports that he and Moe Deutsch have liquidated their fledgling company. Don and Professors Parazek and Gold of Penn State conducted a short course in fracture trace analysis and remote sensing for state employees in Augusta, Maine.

Sulo and Leone Wiitala are preparing for a trip to Tenerife in the Canary Islands beginning March 28. They plan to visit old friends from Helsinki, Finland, who spend their winters in Tenerife.

G.F. (Skip) Worts sends greetings on his retirement after 48 years (34 full time, 14 WAE) and notes that while he is hanging up the pick and tape he does not plan a total cessation of all activity. A reference was made to a former colleague in the Badger State.

IN MEMORIAM

Lily Ash died on February 3, 1989, in East Lansing, Michigan, from complications of Alzheimers Disease at the age of 88. She was the wife of Arlington Ash, who at the time of his retirement in 1970, was District Chief in the Michigan District Office. She is survived by her husband, Arlington; a son, Richard; two grandchildren; and one great-grandchild.

Mabel B. Blomgren died on March 3, 1989 in Ithaca, New York, at the age of 85. She entered on duty in 1952 as a clerk-typist in the Ithaca, New York, Sub-district Office, and retired in 1973 as a Mathematical Technician. She is survived by her husband Elmer; two sons' - James and George; - six grandchildren; and five great-grandchildren.

Paul M. Johnston died on January 13, 1989, at a nursing home in Sandy Spring, Maryland, of cancer at the age of 84. He entered on duty as a geologist in 1950 to conduct research on ground water in the Washington, D.C. area. He retired in 1964. His wife, Verda, died in 1987. Survivors include his son, Terry, and two grandchildren.

Eugene J. LaCornu died suddenly on February 24, 1989, in Santa Rosa, California, at the age of 66. He entered on duty in September 1952 as an Engineering Aide in the Sacramento, California, field office. At the time of his retirement in October 1980, he was in charge of the Santa Rosa field office. Survivors include his wife, Kathryn; a son, David; and a daughter, Mary Beth.

IN MEMORIAM

William L. ("Bill") Lamar died on January 20, 1989, in Palo Alto, California at the age of 83 after a long period of declining health. He entered on duty with the Division of Quality Water as an analytic chemist in 1929. At the time of his retirement in 1968, he was a research chemist in Office of the Regional Hydrologist in Menlo Park, California. Survivors include a son, Bruce; and a daughter, Jeanne Achepohl.

Irving R. Leonard died suddenly on February 2, 1989, at the Albany Medical Center Hospital in New York at the age of 79. A life-long resident of Elsmere, New York, he entered on duty with the Division of Surface Water in Albany, New York in April 1943 as an Engineering Aide, and retired in February 1978 as a Hydrologic Technician. Survivors include his wife, Arcola; two daughters, Barbara Clark and Linda Leonard; two sons, Richard and William; and 12 grandchildren.

Patricia L. ("Pat") Ward died at the age of 59 on March 23, 1989, from injuries in an automobile accident in Greensboro, North Carolina. She is survived by her husband Porter and daughter Deborah.

Carolyn M. ("Mac") Wells died on February 13, 1989, at a retirement home in Fairfax, Virginia, from cardiac arrest. She was the widow of Joseph V.B. ("Joe") Wells, who died in 1987. She is survived by two daughters, Patricia McDonnell and Joan Coward, and three grandchildren.

Word has been received that Harold E. ("Sandy") Burch died on February 4, 1989, in Durango, Colorado, of cancer at the age of 65. He entered on duty as an Engineering Aide with the Division of Surface Water in Denver, Colorado, in August, 1949. At the time of his

retirement in January 1984, he was in charge of the Field Headquarters office in Durango.

Word has been received that Louis E. Otts, Jr. died on January 10, 1989, at the age of 87 after a stroke. He lived in Hyattsville, Maryland. He entered on duty as a hydraulic engineer in June 1956, and resigned in November 1967. He retired as a professor of engineering from the University of Maryland in 1978. Survivors include his wife Frances, two daughters, two sons, and seven grandchildren.

Word also has been received that George W. Swindel, Jr. died on January 24, 1989, in Tuscaloosa, Alabama. He entered on duty with the Ground Water Division in Tuscaloosa, Alabama, in June 1948 and resigned in November 1961. He retired as Assistant State Geologist in Alabama in 1987. Survivors include wife Betty Jo, three sons, one daughter, and two grandchildren.

Word has also been received that Olatha Tweedy died on February 8, 1989, in Iowa City, Iowa, at the age of 85. She entered on duty as a clerk-stenographer in July 1953 with the Ground Water Branch in Iowa City, Iowa, and retired in April 1971. She is survived by three sons.

Word has been received that Abel Wolman, a renowned sanitary engineer with Johns Hopkins University, died in Baltimore, Maryland at the age of 96. He gained an international reputation some seventy years ago when he and chemist Lin Eslow developed a method for making water safe for drinking by controlled chlorination. During his career, he served as advisor to more than 50 foreign countries and was responsible for bringing safe drinking water to millions of people. He was a long-time supporter and friend of the Geological Survey.

IT IS WITH REGRET THAT WE INFORM YOU OF THE
DEATH OF AFFILIATE MEMBER GEORGE C. CHASE,
UNEXPECTEDLY, AT HIS HOME ON APRIL 18, 1989.

**1990 RETIREE REUNION
PRELIMINARY QUESTIONNAIRE**

Even though the reunion is a year and a half away, the popularity of the Orlando area for meetings make it necessary to have some preliminary indications of attendance and interest. Please let us know if you think you may attend by responding to the following:

I (We) hope to attend _____ (No. in Party)

ACTIVITIES OF POSSIBLE INTEREST:

DISNEY WORLD MAGIC KINGDOM _____

EPCOT CENTER _____

SEA WORLD _____

KENNEDY SPACE CENTER _____

CYPRESS GARDENS _____

GOLF _____

TENNIS _____

SPECIAL ACTIVITY (FROM PORT CANAVERAL BEFORE OR AFTER NOV. 11-15, 1990):

"PREMIER'S CRUISE AND WALT DISNEY WORLD WEEK " (SPECIAL
PACKAGES WITH OFFICIAL CRUISE LINE OF WALT DISNEY WORLD):

COMMENTS AND SUGGESTIONS:

(FOLD HERE WITH ADDRESS OUTSIDE)

FROM: _____

PLACE
STAMP
HERE

TO: RICHARD C. HEATH
1021 SE 11th Avenue
Ocala, FL 32671

FIRST CLASS MAIL

RECENT RETIREMENTS

National Headquarters: Glenn Faulkner, Hydrologist, on February 24, 1989.

Northeastern Region: Shirley L. Rettig, Research Chemist, Reston, VA, on February 1, 1989 **** Richard Stahl, Supervisory Hydrologic Technician, Mt. Vernon, IL, on March 31, 1989.

Southeastern Region: John J. Musser, Supervisory Hydrologist, Baton Rouge, LA, January 3, 1989 **** Robert L. Meikle, Hydrologic Technician, Raleigh, NC, January 3, 1989 **** Lewis E. Burgess, Hydrologic Technician, Orlando, FL, January 5, 1989 **** Miguel A. Lopez, Hydrologist, Tampa, FL, February 3, 1989 **** Vilma J. Snodgrass, Administrative Clerk, Tallahassee, FL, March 25, 1989 **** James C. Hourihan, Hydrologic Technician, Miami, FL, March 31, 1989 **** Thomas W. Kollar, Hydrologic Technician, Louisville, KY, March 31, 1989.

Central Region: Margaret A. Bloomberg, Administrative Officer, Arvada, CO, March 31, 1989 **** Elsie F. Sanchez, Administrative Officer, Albuquerque, NM, March 31, 1989 **** Pat L. Soule, Hydrologist, Albuquerque, NM, January 3, 1989 **** Ralph D. Lites, Hydrologic Technician, Houston, TX, April 2, 1989 **** Jack Rawson, Supervisory Hydrologist, Austin, TX, March 25, 1989.

Western Region: Kenneth K. Konishi, Hydrologic Technician, Kauai, Hawaii, February 10, 1989 **** John J. Janssen, Hydrologic Technician, Santee, CA, March 4, 1989 **** Raymond George, Supervisory Hydrologist, Anchorage, AK, January 31, 1989 **** Raymond Turner, Botanist, Tucson, AZ, March 3, 1989.

KEY POSITIONS FILLED

J. David Camp has been selected as Assistant Regional Hydrologist, Western Region.

James Burton has been selected as Chief of the Division's National Water Data Exchange Program.

"WRD RETIREES"

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