



US Army Corps  
of Engineers

St. Paul District

# Crosscurrents

Vol. 5

No. 11

July 1982

## Deputy commander leaves St. Paul District

Lt. Col. John H. Atkinson left his post as deputy commander of the St. Paul District on June 29.

His position will be filled by Lt. Col. Archie Doering.

Atkinson has been with the district since May 1981.

Atkinson will be attending the Air War College at Maxwell Air Force Base in Montgomery, Ala. The college is the highest educational institution in the Department of Defense.

As a student, Atkinson will be among 30 Army officers attending the 10-month long session.

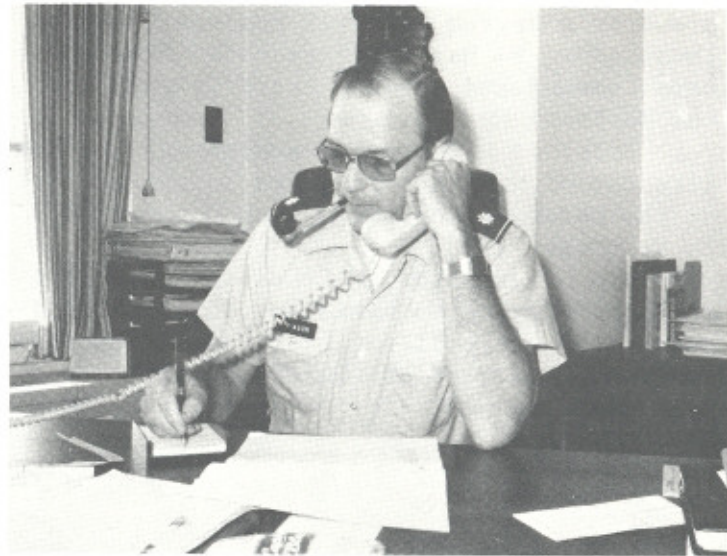
Prior to his assignment with the district, Atkinson was the chief of the Engineer School Training Development Office at the U.S. Army Engineer Training Center, Fort Leonard Wood, Mo.

Atkinson held many foreign and domestic assignments including commander of a combat engineer battalion and combat engineer battalion (heavy) in the United States and in Germany; director of facilities engineering for the Theater Army Support Command, Europe; operations officer for a 550-man engineer construction battalion.

He was also the logistics advisor to the Chief of Engineers, Vietnam; assistant professor of military science, South Dakota School of Mines; construction management instructor for the Republic of Thailand Accelerated Rural Development Program.

Atkinson was also a construction supervisor for the installation of rural water supply treatment and distribution facilities in Vietnam; real estate officer and company commander of a combat engineer company in support of an armored brigade.

His civilian experience includes construction inspector for interstate highways; general contractor and deputy county surveyor.



Lt. Col. John H. Atkinson.

Atkinson is a 1960 graduate of Westminster College with a bachelor of arts degree in mathematics and physics, and a master of science degree in engineering management from the University of Missouri at Rolla.

He is also a graduate of the U.S. Army Command and General Staff College.

He holds many military decorations.

He and his wife, Mary Lou, have three children.

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## Maj. Gen. William R. Wray retires from deputy position

Maj. Gen. William R. Wray, Deputy Chief of Engineers for the U.S. Army Corps of Engineers, Office of the Chief of Engineers in Washington, D.C., retired on June 30 from active military service.

During his military career spanning 36 years, Wray has held increasingly responsible assignments, both as a military commander and as a key director of the Corps' far-ranging national and international programs and projects.

Gen. Wray is a 1946 graduate of the U.S. Military Academy at West Point and received a master's degree in civil engineering from Texas A&M. He has also graduated from the Army Command and General Staff College and the National War College.

Prior to his current assignment, he was director of Military Programs in the Office of the Chief of Engineers from October 1978 to September 1980.

His other major staff assignments have included serving as assistant Chief of Engineers (1975-78); director of Facilities Engineering, Office of the Chief of Engineers (1974-75); deputy director of Military Con-

struction Directorate, Office of the Chief of Engineers (1973-74); division chief and deputy director, Systems Directorate, Office of the Assistant Chief of Staff for Force Development, Army General Staff, Pentagon (1971-73).

He was also director of Construction, U.S. Army Engineer Command, Vietnam (1969-70); chief of Site Operations Division, Site Activation Directorate, Safeguard Systems Command, Huntsville, Ala. (1968); and member of Tactical Nuclear Branch in the Joint Chief of Staff Special Studies Group, Pentagon (1965-67).

Gen. Wray was one of the Corps' initial investigators into the possibility of using nuclear explosives for large-scale excavation, at Lawrence Radiation Laboratory, Livermore, Calif. (1961-63).

He has also held many command assignments and has many military decorations.

He is a registered professional engineer in the District of Columbia and is a native of De Quincy, La.

He and his wife, Mary, have three children.

**The next deadline for all articles to be submitted to Crosscurrents is July 23.**

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*Commander  
Public Affairs Officer  
Editor and Photographer*

*Col. Edward G. Rapp  
James E. Braatz  
Blanche H. Fong*

## Heiberg named as deputy

The Department of the Army announced on June 9 that Maj. Gen. E.R. "Vald" Heiberg III will succeed Maj. Gen. William R. Wray as Deputy Chief of Engineers for the U.S. Army Corps of Engineers, Washington, D.C., effective July 1.

Heiberg has been serving as the Corps' director of Civil Works, Office of the Chief of Engineers (OCE) in Washington, D.C., since September 1979.

Heiberg is a 1953 graduate of the U.S. Military Academy at West Point and has earned three master's degrees, including one in civil engineering from the Massachusetts Institute of Technology.

He is also a graduate of the Army Command and General Staff College and the Industrial College of the Armed Forces.

Some of his major staff assignments include deputy chief of staff, engineer, U.S. Army, Europe (1978-79); military assistant and executive to the Secretary of the Army, Pentagon (1972-74); chief, Manpower and Structure Team, Planning and Programming Analysis Directorate, Office of Assistant Vice Chief of Staff, U.S. Army, Washington, D.C. (1971-72).

Heiberg has held many command assignments, including division engineer of the Ohio River Division with the Corps of Engineers, and district engineer of the New Orleans District with the Corps.

He also holds many military decorations.

He is a registered professional engineer in the state of Louisiana.

Heiberg was born at Schofield Barracks in Honolulu, Hawaii. He and his wife, Kitty, have four children.

## Albro assigned as director

The Department of the Army announced on June 10 the assignment of Maj. Gen. Ames S. Albro Jr. as the new director of Military Programs for the U.S. Army Corps of Engineers with the Office of the Chief of Engineers, Washington, D.C.

Albro, who has been serving as the Corps commander and division engineer of the Middle East Division since June 1980, succeeds Maj. Gen. Drake Wilson, who is retiring from military service on June 30.

Albro has held many command and staff assignments including commander and district engineer of the Far East District with the Corps.

Albro is a 1954 graduate of the U.S. Military Academy at West Point, and he attended Oxford University in England as a Rhodes Scholar and received a bachelor's degree in philosophy.

He is also a graduate of the Army Command and General Staff College and the Army War College.

He holds many military decorations.

Albro is a native of San Antonio, Texas. He and his wife, Jane, have six children.

## Gay named to acting post

Brig. Gen. Forrest T. Gay III has been named acting director of Civil Works for the U.S. Army Corps of Engineers, Office of the Chief of Engineers, Washington, D.C., effective July 1.

Gay has been serving as the Corps' deputy director of civil works since June 1981.

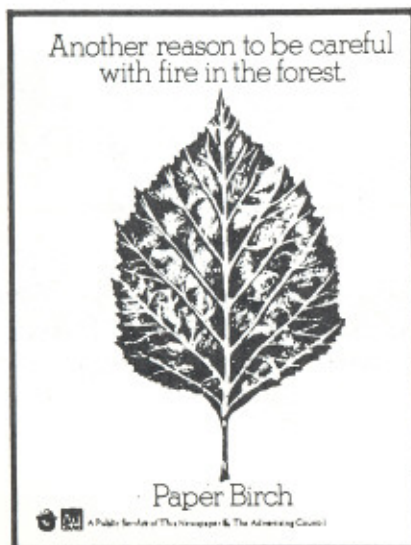
Gay is a 1955 graduate of the U.S. Military Academy at West Point and has earned master's degrees in civil engineering and nuclear engineering from the Massachusetts Institute of Technology.

He is also a graduate of the Naval Command and Staff College and the Army War College.

Gay has held many command and staff assignments, including chief of staff of the Corps of Engineers (1979-81) and district engineer and commander of the St. Paul District (1976-79).

He holds many military decorations.

Gay is a native of St. Petersburg, Fla. He and his wife, Mary, have one child.



# Mobilization preparedness means protection

*The following is a commentary written by St. Paul District Commander Col. Edward G. Rapp for the "Engineer Update," Vol. 6, No. 6, June 1982; Office of the Chief of Engineers, Washington, D.C.*

Lt. Gen. J.K. Bratton, commander of the U.S. Army Corps of Engineers, recently set some new goals for the Corps.

Among them were the following statements "Prepare in peace to perform in war" and "Improve our readiness and mobilization posture."

Mobilization is the process of focusing national resources to deter escalation to war and, should deterrence and diplomacy fail, to insure survival and to mitigate against loss of life and property in returning to peace.

Mobilization preparedness is the Corps' ultimate environmental protection program.

The Corps has had a rich history in both deterrence and mitigation for which we can be justly proud. It is our primary business as federal engineers to posture for and to protect against hazards that can strike this nation.

## HUMAN DESTRUCTION

There are those hazards that natural forces randomly bestow upon us--floods, earthquakes, winds, tides and eruptions--and those that man creates--pollution, destruction of wetlands and war.

Disaster can strike quickly or over a period of years. You cannot deter natural disaster but you can deter the destructive things that humans do to humankind and our environment--including war.

Just like we deter long-term destruction of our environment with engineer activities and expertise, we must deter this ultimate environmental hazard.

So what do we do, make the Soviets get a permit? No, but we can influence a Soviet strategist--or any other potential enemy--not to miscalculate this nation's ability to mobilize its considerable engineering and construction capabilities for defense.

As in environmental programs, failure to think through the problem and prepare invites the very disaster we are trying to deter.

## ACTION, NOT WISHES

The chief has pointed out in his recent filmed message to Corps employees that we can't be ready just because we wish it were so.

We must draw up plans and procedures and know our jobs for mobilization.

The next several years have been targeted for improving the emergency preparedness ethic on capabilities of the Corps.

Our best guides to preparedness are contained in our own histories, particularly the lessons in each of our districts from World War I and subsequent wars.

If you have not yet seen these or the chief's message, you should.

The chief's goal is mobilization preparedness.

Our job is to think through the process of mobilization and produce on-the-shelf engineering plans, drawings and procedures so that our response capability and its deterrent value is real and not a wishful figment of our imagination.

Essayons. Let us try.



## Chief honored to serve SAME

Chief of Engineers Lt. Gen. J.K. Bratton became the national president of the Society of American Military Engineers (SAME) on April 23. The following is a letter he wrote to all Corps employees.

"The Society of American Military Engineers and the U.S. Army Corps of Engineers have forged a most productive and mutually beneficial relationship since the founding of SAME in 1919.

"The society has a legitimate role in influencing many of the great national issues which must be confronted in the '80s; and these issues, importantly, need the reasoned precision, planning and professional excellence so characteristic of our own Corps of Engineers organization and our private sector architect/engineer firms.

"The SAME is an active catalyst in the tasks of strengthening the industrial and defense preparedness of the nation and in enhancing its public works and private sector structure--areas that we in the Corps have been involved in since the earliest days of our nation.

"Further recognition of the shared interests of the Corps and the SAME is reflected in the SAME theme for 1982: 'Military Engineering--a Keystone of Defense Preparedness.'

"As the newly-installed national president of the SAME, it will be my challenge to lead the society in furthering the ideals and objectives embodied in this theme.

"I am honored to serve as the president of SAME, because its goals so closely relate to my own responsibilities as the Corps of Engineers commander.

"I believe the synergism which exists there can be profitable to both the Corps and the SAME.

"To those in the Corps family who are currently members of the SAME, I look forward to meeting many of you at SAME activities in the year ahead, and I solicit your active support of the society and its many initiatives.

"To those who are not now members of SAME, I encourage you to examine the society and what it stands for.

"I believe that many of you will be persuaded to become members of the SAME, a highly respected professional society, joining over 23,000 individual members and 1,000 sustaining members in strengthening the engineers' contribution to national defense."

## U.S. Army celebrates anniversary

The following is a letter to all Department of Defense employees from Gen. E.C. Meyer, Chief of Staff, and John O. Marsh Jr., Secretary of the Army.

"This year marks the 207th birthday of the U.S. Army, a proud national institution whose roots predate the founding of the republic itself.

"The 167 campaign streamers which hang heavy from the Army flag are visible evidence of our historic devotion to the ideals and interests of our nation.

"Today, the total Army--Active, National Guard and Army Reserve, together with our civilian members--stands ready once again to meet the challenges of our time.

"Seldom have the threats been so diverse, and the resulting need for land forces so clear.

"Our daily effort is directed to the deterrence of hostile acts against our nation. But we must be prepared to take the field instantly toward whatever objective we are directed, should that fail.

"Fortunately, we are entering a much needed era of modernization, the visible signs of which are becoming more widespread daily.

"Its effects extend well beyond equipment, however, introducing new unit organizations, new procedures, new training thrusts and new personnel management objectives--all innovations directed toward a better army.

"The transition we are in today is exciting. It will span many future Army birthdays. By working together, it will yield a continually improving army.

"We join in expressing our pride in today's soldier and our confidence that all members of the Army team will do their part to assure that the Army is ready to meet its demanding mission."

MEN - WOMEN

**Job training in the  
Army Reserve  
can pay off for  
a lifetime.**

## Division chief speaks to all

*The following is a letter to all North Central Division, Corps of Engineers employees from Gen. Scott B. Smith, North Central Division Commander.*

"This is a challenging time for the North Central Division (NCD). Challenging because of the new signals from which the Corps of Engineers is taking its lead.

"These new signals, which stem from national priorities and administrative policies, include both the intensification of our support to a strong, modernized army and a reduction in civil works resources.

"Meeting these challenges will require continued loyalty and dedication from each of us.

"I am proud to say that NCD is in the forefront of one particular aspect of our support to the military, that of mobilization preparedness.

"Our command post exercises, a Corps first, are giving us invaluable experience in this important area. We've become a model for the Corps in its mobilization mission.

"In addition, NCD has been designated coordinating headquarters for the Armaments Command Mobilization Master Planning efforts.

"In this capacity, we have management responsibility for the development of mobilization master plans for all 28 Army ammunition plants in the United States.

"On the civil works side, the necessity for each new project and the benefits of certain features of ongoing ones are being examined more closely than ever before.

"However, there will always be a need for carefully thought out, wisely chosen civil works projects that serve the public interest.

"And NCD, with its reputation for quality work and imaginative thinking, will be there to bring these projects into being.

"To our credit, NCD has one of only nine construction general new starts and one of only six projects approved for advanced engineering and design, Corps-wide, in the currently proposed fiscal year 83 budget.

"On this, the 207th anniversary of the Corps of Engineers, I extend my congratulations and thanks to all the members of NCD.

"Your professionalism and your integrity enable the North Central Division to sign its name proudly."

## Comprehensive plan to be made

President Reagan has requested the U.S. Army Corps of Engineers to prepare a comprehensive plan which will address the flood control and navigation problems brought about by the huge deposition of sediment caused by the eruption of Mount St. Helens.

Since the first eruption of Mount St. Helens in the spring of 1980, the Corps has spent approximately \$288 million on emergency activities related to flood control and navigation problems caused by the huge deposit of sediment which has been carried by runoff into the Toutle, Cowlitz and Columbia rivers.

According to Corps officials, this continual movement of debris and volcanic sediment is a long-term threat to existing flood protection measures and a potential for future impairment of navigation.

Therefore, President Reagan on May 10 directed the Secretary of Defense to have the Corps prepare a comprehensive plan to deal with the continuing problem of debris and sediment movement down the affected rivers.

Included in the plan will be a recommendation for the division of funding responsibilities between federal, state and local entities.

This 18-month study will cost \$1.25 million and will be conducted by the Portland District. It is scheduled for completion in November 1983.

The  
Troglodytidae Family  
thanks you  
for being careful  
with barbeque fires  
when you picnic.



Ad

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# The Medal of Honor is 120 years old

Extracted from "ARNewS," July 1982; U.S. Army Command Information, Washington, D.C.

The Medal of Honor, sometimes called the Congressional Medal of Honor, is the military's final supreme award, its distribution limited strictly to the handful of those meeting the most severe tests of heroism.

The medal originated during the Civil War, when the need to recognize heroes became apparent to most Americans.

On Feb. 17, 1862, two months after a medal had been approved for the Navy, Sen. Henry Wilson introduced a Senate Resolution for the Army.

President Lincoln approved the resolution on July 12, 1862, and on March 3, 1863, it was amended to include officers as well as enlisted men.

## FIRST MEDAL WINNERS

Assistant surgeon Bernard J.D. Irwin was the first to perform a deed that later won an Army Medal of Honor.

Irwin led a party of 14 picked infantry through a snow storm on Feb. 13, 1861, to rescue 60 men of the 7th Infantry Regiment surrounded by Apache Indians in a region now known as Arizona.

The first medals actually awarded went to six Union soldiers--all that remained of a band of 20 volunteers led by a civilian secret agent.

The volunteers set out in 1862 to sabotage the vital Confederate rail link between Atlanta, Ga., and Chattanooga, Tenn.

Disguised as civilians, the raiders captured the locomotive at Big Shanty, Ga., 200 miles deep in enemy territory.

Under close pursuit by the Confederates, the party fled north, attempting to burn bridges and destroy track along the way; but after 90 miles, the "great locomotive chase" came to an end.

In a few days, all the raiders were captured and eight were tried and executed. On March 25, 1863, six of the party arrived in Washington, D.C., after parole from a Confederate prison, and received their medals.

## RESTRICTIONS AND REGULATIONS

By the end of the Civil War, the medal became so popular that imitations were springing up, some almost exact duplicates of the original.

Also, a growing number of soldiers were applying for the medal with no documentation of their claimed heroic deeds.

On June 26, 1897, the War Department announced paragraph 177 of Army Regulations was revised by the direction of President McKinley to define the conditions under which the medal would be awarded.

In 1904, the medal was redesigned and patented to end abuse.

The "Medal of Honor Roll," created by Congress on April 27, 1916, recorded the medal winners who had attained the age of 65, and each received a special pension for life.

## SOME OF THE MEDAL WINNERS

The Civil War: One woman won the medal, Dr. Mary Walker, for her work in saving lives during the Battle of Gettysburg.

She saw action in several battles, was captured, then exchanged for a Confederate doctor. The Army refused to pay her back salary, so President Andrew Johnson gave her the medal instead of money.

World War I: Cpl. Alvin C. York, later to become the immortal "Sergeant York," received the medal for his deeds of Oct. 8, 1918, in France.

After his platoon had suffered heavy casualties, York assumed command and led seven men in a daring assault upon an enemy machine gun nest that had been pouring deadly and incessant fire upon the platoon.

York's spectacular marksmanship and audacious leadership completely demoralized the enemy, and the nest was taken, together with four officers, 128 men and several guns.

World War II: Near Holtzwihr, France, on Jan. 26, 1945, 2nd Lt. Audie L. Murphy jumped on a burning tank destroyer and manned its machine gun against two companies of attacking enemy infantry supported by six tanks.

Alone and exposed to fire from three sides, Murphy was wounded in the leg, but continued firing and brought the attack to a halt, thereby saving his company from possible encirclement and destruction.

# St. Paul District celebrates summer events

A number of river and water-related events scheduled for the Minneapolis-St. Paul metropolitan area, as well as the Mississippi headwaters area, this summer and fall, have the support of the St. Paul District.

Because 1982 marks the sesquicentennial of the charting of the headwaters of the Mississippi River at Itasca, Minn., and the centennial of the establishment of the first hydroelectric facility on the river at St. Anthony Falls in Minneapolis, a number of organizations, including the Corps of Engineers, are sponsoring a series of events known as "Minnesota's Mississippi."

Included in river-oriented happenings are special workshops on the environment at the University of Minnesota in Minneapolis-St. Paul on July 6-15, a Sesquicentennial Celebration at Itasca State Park on July 9-17, a short course on small-scale hydropower development at the university on July 25-29, an exhibit of historical photographs on development of Minnesota's Mississippi at the Bell Museum in Minneapolis on Aug. 31-Sept. 26, a Hydroelectric Centennial Celebration at St. Anthony Falls on Sept. 4-6, and an interdisciplinary workshop on the river at Pike Island Nature Center at Fort Snelling State Park on Sept. 29.

Also, a series of lectures and field trips are being planned in connection with sesquicentennial celebrations at such locations as the Bell Museum, the Minnesota Science Museum in St. Paul and the St. Paul Landmark Center. Guest speakers will include Mayors Donald Frazer of Minneapolis and George Latimer of St. Paul.

Minnesota's Mississippi will conclude with a two-day conference in November which is designed to provide national and regional perspectives on river history and resource management.

The St. Paul District is one of a large group of sponsors for the series which includes the Minnesota Science Museum, the Minnesota Department of Natural Resources and the Minnesota Historical Society.

## OTHER EVENTS

The district also hopes to participate in the National Conference on Environmental Engineering sponsored by the Minnesota Pollution Control Agency and scheduled for July 14-16.

Another event supported by the district, which plans to set up a small exhibit booth, is the 1982 Mississippi River Revival Festival, slated for Aug. 1 at Harriet Island in St. Paul. This is being sponsored by a number of groups which promote preservation of the river's natural environment.

Finally, the district hopes to have attractive, new displays ready for its booth at the Minnesota State Fair in St. Paul on Aug. 26-Sept. 6 and the annual Twin Cities In-Water Boat Show at King's Cove in Hastings, Minn., near the end of September.

Further information on any of these events can be obtained from the Public Affairs Office at 725-7505.

## Be wary of cosigning

*From the American Forces Information Service, Department of Defense, Washington, D.C.; June 14, 1982.*

When a friend or relative asks you to cosign a loan, you're only backing them up, right?

Wrong. According to the Federal Trade Commission (FTC), three out of four cosigners of finance company loans end up being asked to pay back the loan.

After all, that's why you're the cosigner--the finance company doesn't think the borrower is a safe risk.

### HELPFUL ADVICE

Here's some advice from the FTC to help you protect yourself:

\* TRY TO get the lender to state in writing that, should the borrower default, you will only owe a fixed amount.

\* NEVER PLEDGE your property, such as your car or house, to secure the loan.

\* GET THE lender to agree, in writing, to notify you if the borrower misses a payment. That way you won't be asked to pay late charges or the total amount of the loan.

\* DON'T LET your friend or relative pressure you. Think twice about cosigning. Take time. And don't sign anything unless you have the money to pay.



## River festival to be held

by Jeannie Wagner, PD-ER

The second annual Mississippi River Revival Festival will be held Aug. 1 on Harriet Island in St. Paul, from 10 a.m. to sunset.

The purpose of the revival is to recognize and celebrate the relationship between the Mississippi River and the people who live along it.

The river has played a major role in the social, economic and cultural development of the people living along it.

The revival will commemorate the rich history of the river while encouraging people to learn about, appreciate and protect the natural values of the river environment.

The idea was taken from Pete Seeger's annual Hudson River Revival in New York. The first Mississippi revival was held last year on Nicollet Island in Minneapolis.

The festival will feature music, food, dance, theater, and booths and displays by organizations concerned with cultural history, land use, recreation and environmental issues.

A Corps of Engineers information booth is planned for the festival.

Music performed during the day will be varied--rock bands, folk singers, jazz groups, gospel singers and drum groups.

Some of the performers scheduled include Lamont Cranston, Claudia Schmidt, Larry Long and Butch Thompson.

Some of the community organizations involved in the river revival are MPIRG, Citizen Heritage Center, Pig's Eye Coalition, Clean Air/Clear Water, Afro-American Cultural Center, Heart of the Beast Puppet Theater, Northern Sun Alliance, Heart of the Earth Survival School and the West Side Citizens Organization.

One of the future objectives of the revival is a flotilla "boatcade" from the Mississippi headwaters at Lake Itasca to the Gulf of Mexico, during the summer of 1983.

As the flotilla passes river communities, other boaters will be encouraged to join the historic floating celebration on its way down the river.

## Farming is dangerous

What's the most dangerous occupation? Try farming.

That's right, agricultural occupations make up the most hazardous line of work, more dangerous than mining or high steel construction jobs, reports the American Council of Life Insurance.

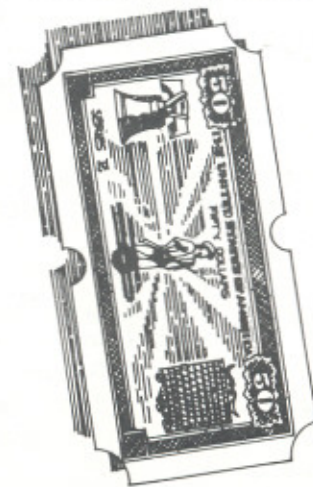
There were 2,000 work deaths and 200,000 injuries among the more than three million farmers, according to the National Safety Council.

This moves agriculture from a long-standing position as the third most hazardous occupation to the top spot on the danger list.

Reasons cited for the high percentage of disabling injuries and deaths among farmers are:

They work long hours, frequently alone; work is often done by children and elderly persons; medical help is not readily available at the scene of the accident; and frequently there is a lack of proper safety equipment and safe work practices in the agricultural occupations.

# Ticket to your future.



Take stock in America.  
Buy U.S. Savings Bonds.

# People

CONGRATULATIONS go to the following new moms and dads: former Corps employee Shelley (Peterson) and Gary R. Smith, ED-D, on the birth of daughter Lisa Anne on April 27 at 7 lb., 12 oz.; Vicki and Richard Otto, Mississippi River Project Office, on the birth of daughter Casey Christine on May 22 at 8 lb., 11 oz.; and Patti and Thomas Novak, Eau Galle River Lake, on the birth of son Nathan Thomas on June 4.

A WARM APPRECIATION is extended to the following people from Lock and Dam 10 who donated blood on June 10: Marvin L. Pedretti, Irvin H. Muench, Harley A. Akers, John E. Esslinger, Roy J. Jetter and Teresa A. Jetter.

GET-WELL WISHES go to Mike Boland, Fountain City Service Base, who was injured in a work-related accident on May 20.

SINCERE SYMPATHY is extended to Marlin A. Munter, ED-D, on the death of his father; and to Leo Leisen, L/D 5, on the death of his mother.

CONGRATULATIONS go to former Corps employee Oscar Grossell and his wife Palma, who celebrated their 50th wedding anniversary on June 13 in Brownsville, Minn. He has been retired for approximately 20 years.

GOOD LUCK goes to Norman W. Hildrum, PD-ES, and John H. Plump Jr., ED-D, on their selection for long-term training, beginning September. Hildrum will attend the Planning Association Program at Fort Belvoir, Va., and Plump will attend Stanford University in California.

GOOD LUCK goes to Homer W. Rognlie, CO-CC, who accepted a 90-day tour of duty in Saudi Arabia.

CONGRATULATIONS go to William L. Goetz, chief of Construction Operations Division, on receiving the Meritorius Civilian Service Award, the U.S. Army's second highest civilian honorary award.

FOND FAREWELL and best wishes go to the following who recently retired: Marvin R. Giversen, a surveying technician with Hydrographic Surveys, on May 28 after approxi-

mately 23 years of federal service; Raymond E. McLees, a lock and dam equipment mechanic foreman at Lock and Dam 8, on May 30 after approximately 31 years of federal service; Dolores C. Schuster, an imprest fund cashier with the Procurement Branch, on June 25 after approximately 37 years of federal service; and Lester "Pete" Leavitt, lockmaster of Lock and Dam 6, on June 25 after approximately 30 years of federal service.

FOND FAREWELL and good luck go to the following who recently left the Corps: Gloria F. Sunde, Mississippi Headwaters Project Office; Cynthia A. Karnes, Patrick J. Hoffmann, and Marshall P. Miley, Eau Galle River Lake; Neal D. Cook, Lake Traverse; Bonnie K. Klev-en, Sandy Lake; Warren W. Walhaug, Felton Ditch Project Office; Kenneth A. Yanna, PD-FS; Mark W. Lisney, ED-GH; Mark S. Johnson, ED-GH; Hugo A. Ramirez, PD-PF; David H. Dra-hota, L/D 3 (transferred to the Veterans Administration); Violet M. Scharmer, AS-M; and Paula L. Jackson, DC-B.

## Incentive awards

### Special Act Awards:

Richard Pomerleau, ED-GH  
Cliff Schlueter, ED-GH

### Sustained Superior Performance Awards:

Helen Marriott Monson, ED-D  
Bill Gray, CO-MA

### Quality Increase:

James Johnson, ED-D

### Exceptional Performance & Quality Increase:

Delores Sudeith, AS

### Suggestion Award:

Jan Lassen, ED-D

### Significant Accomplishment Cash Awards:

James Kursu, PO  
Lou Kowalski, PD  
Mike Ferring, OC  
Pete Fischer, ED

## Around the district

EFFECTIVE May 1, the responsibility for regulatory functions in the portion of North Dakota within the St. Paul District was transferred to the Omaha District, to simplify coordination between federal and state agencies.

IN STILLWATER, Minn., Sheldon Edd, CO-CT, participated in a career day program at Stillwater Senior High School, on May 8. He spoke about civil engineering. Other professions represented in the program included weather forecasting, chemistry, anthropology and computer programming.

A CONTRACT for \$178,677 was let for stage five of Lock and Dam 1 Rehabilitation Project, bluff protection, on May 13. A Minneapolis company, Maertens-Brenny Construction, was the low bidder.

NEAR READS LANDING, Minn., on the Mississippi River, the Corps began early dredging despite high water, in late May. An unusually large amount of sand washed into the river this spring from the nearby Chippewa River and threatened to block tow traffic when the river level drops.

IN ST. PAUL, Minn., a land developer was convicted of contempt of court for failing to comply with an order to apply for a federal permit from the Corps before dumping sand into a wetland on Lake Owasso, Roseville, Minn., in late May.

THE BALDHILL DAM at Lake Ashtabula, near Valley City, N.D., received an alleged threat in early June. As a result, the Corps and local law enforcement agencies cooperated in taking precautionary measures and updating emergency evacuation plans for communities downstream from the dam, as part of a public safety exercise. The Corps checked the dam for physical weaknesses or other damages and found no sign of tampering.

AT LOCK AND DAM 4, in Alma, Wis., a man was injured in a boating accident on June 12. The boat he was driving hit a rope anchoring barges to the guidewall at the lock facility. The man underwent surgery for broken facial bones at a hospital in Winona, Minn. The accident is currently under investigation.

SOME OF THE ST. PAUL District payroll information is being submitted to the Central Payroll Office in Omaha, Neb., via computer, beginning in June. The new computer transmission system is an effort to help the Central Payroll Office process employee paychecks more efficiently and effectively.

NEWLY ASSIGNED District Commander Edward G. Rapp visited the Mississippi River field sites during June 14-18. He toured flood control projects in North Dakota and northern Minnesota during June 21-24, and the Mississippi headwaters reservoir area during June 28 to July 1. Accompanying him on the inspection tour were William Goetz, CO, and Peter Fischer, ED.

AT LOCK AND DAM 6, in Trempealeau, Wis., an open house will be held July 10-11, in conjunction with the Catfish Days festival.

THE ST. PAUL DISTRICT will be the host this year for the annual Division Engineer Conference to be held at Madden's Resort on Gull Lake, near Brainerd, Minn., in October. Division engineers from throughout the Corps will be attending.



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## Around the Corps

IN BATH, Maine, the Corps' new medium class hopper dredge Essayons was christened on April 24. The ship, destined to be owned and operated by the New Orleans District, is the latest in a long line of Corps dredges named Essayons. The ship will have a crew of approximately 38. Lt. Gen. J.K. Bratton, Chief of Engineers, looked on while Mrs. Bratton christened the vessel.

ON THE COLUMBIA RIVER, in the North Pacific Division, the Duchess B, a 39-ton tugboat, capsized and sank in late May during a storm with 55-knot winds. Jeanene Smoczyk, 26, a Corps fisheries biologist, was aboard the tug when it capsized. She freed herself just before the boat sank, towed a crew member through six-foot waves to a small island and then swam another channel to summon help. The man she towed ashore died later at a hospital where he had been treated for hypothermia and breathing difficulties. The skipper of the boat was missing. A fourth passenger was rescued.

IN THE SAN FRANCISCO BAY, Calif., two fishermen were rescued by a Corps vessel, the Coyote, in late May. Heavy seas flipped a small fishing boat upside down and the two men clung to the boat for approximately a half hour. One of the men suffered hypothermia.

IN FLORIDA, the Corps is involved in the effort to save the manatee. Some waterway locks have been implicated in manatee deaths and an investigation is underway to determine the causes of lock-related mortalities and how to correct them. One of the main threats to the manatee is boat/manatee collisions. The Corps is assisting the Florida Department of Natural Resources in installing signs which establish areas as manatee refuges.

IN THE BUFFALO DISTRICT, under the President's proposed 1983 budget, the Black Rock Lock will close Oct. 1. The lock, which provides a safe passage around the swift currents of the Niagara River, is being recommended for \$80,000 which would only provide "caretaker" service. The cost of operating the lock normally is about \$950,000 a year. Closing the lock will cut off passage up and down the river for many small craft, will isolate Lower Niagara River marinas

from Lake Erie and will end the shipping of petroleum, coal and coke to some industries in the western New York region.



# Club promotes communication skills

by John Blackstone, ED-GH

Recently, I attended my high school reunion and experienced the joy of renewing old acquaintances.

As I was talking with these friends from long ago, I could plainly understand that the family I grew up with was typical for my generation.

My mom did not work outside the home and my dad did. They both worked very hard. Sometimes, my dad would be gone for two or three weeks at a time.

Occasionally during these periods, my mom would reach wits' end and state emphatically, "Wait until your dad hears about this!"

It is important to understand that my mom isn't one to stand out of the limelight. Last month, some folks from a local TV station came over to film her singing and playing on her new piano, "Growing With Growing Omaha."

They were only going to stay long enough to make a short film, but ended up there for several hours with a mom who knows how to enjoy life.

So when she brought on this ominous threat of my dad's undivided wrath, it got our attention; we knew that the wrong button had been pushed.

Now that I am a little older and have children of my own, I am beginning to understand what she might have been feeling.

In fact, I have several times thought of telling my kids in utter despair, "Wait until I tell my dad about THIS!"

In the meantime, two things have become apparent to me: (1) life sometimes is unmanageable and (2) people need to understand the circumstances.

I believe the first statement is self-explanatory. All of us have experienced the desire to throw up our hands in the air and quit.

How I communicate to others is a topic of some consideration. Books are being published every day about the "art of communication."

This only shows that sometimes we can't understand because people make simple things complicated, but it does sell books.

For me, it is this: "I must continue to tell people who I am."

Consider my mom telling me to "Wait until your dad hears about this!" I don't think it will accomplish anything to examine or judge my mom's motives and, in a way, I

am glad she did display this fit of frustration, showing that she is human.

The reason I picked this extreme example is to show that it leaves out some vital information; even kids need to know how their parents feel and who their parents are.

I don't mean that parents need to justify themselves. I mean, I, as a parent need to let my children and others know who I am, what I stand for and to develop a friendship with them.

I cannot cut others off because life is difficult. I must continue to build a web of understanding.

One place that I can learn to do this is Toastmasters. Toastmasters promote communication skills in an open, joyful manner.

Please join us for our next meeting. Check with a Toastmaster member for our summer meeting schedule.

**Join us.**

American Red Cross

**+**

**Together,  
we can  
change things.**

A Public Service of The Red Cross  
& The Advertising Council

# 1982 Annual St. Paul District Amateur



Group I: Color. Category A: General.  
First Place. "Showy Ladyslipper" by  
Steve D. Eggers, CO-RF.



Group I: Color. Category B: People.  
First Place. "Release Me" by Lynn A.  
Riggs, ED-D.



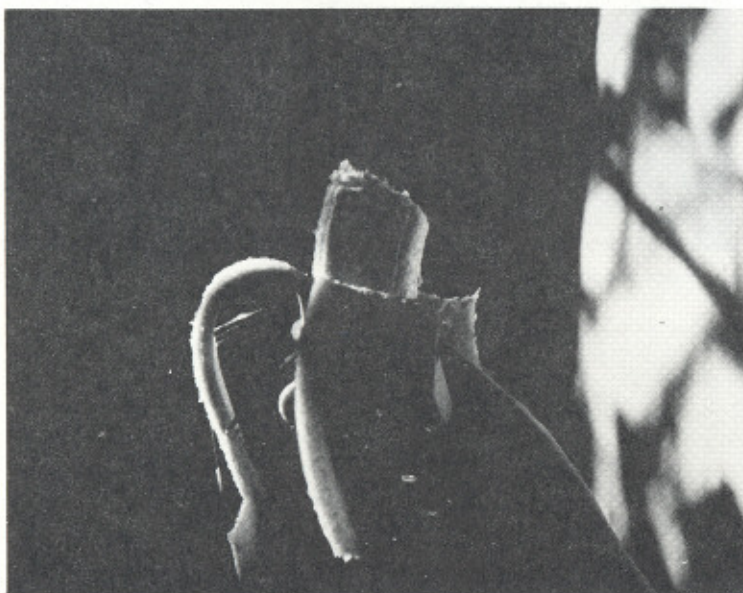
Group I: Color. Category B: People.  
Second Place. "The Deer Hunter" by  
Steve D. Eggers, CO-RF.

# Photographic Contest winners



Group I: Color. Category C: Scenic.  
First Place. "Autumn" by Marsha G.  
Risch, ED-GH.

Group I: Color. Category C: Scenic.  
Second Place. "High Noon" by Lois R.  
Pream, PD-RC.



Group I: Color. Category D: Experi-  
mental. First Place. "Banana" by Marsha  
G. Risch, ED-GH.

*(See page 16)*

## Photo contest

(From page 15)



Group I: Color. Category D: Experimental. Second Place. "Lady Liberty" by Robert C. Stackowiak, DO-P.

Group I: Color. Category D: Experimental. Third Place. "Sulpher Caldron" by Bruce C. Norton, CO-RF.



Group II: Black and White. Category B: People. First Place. "Contemplation" by Douglas J. Baird, ED-M.



# Saudi Arabia needs Corps engineers

From "Engineer Update," Vol. 6, No. 6, June 1982; Office of the Chief of Engineers, Washington, D.C.

The Al Batin District of the Corps of Engineers' Middle East Division (MED) has achieved what is believed to be a new record for contract awards in the Corps.

Seven contracts, totalling nearly \$935 million, were awarded at the King Khalid Military City (KKMC) at Al Batin, Saudi Arabia, between Aug. 25 and Nov. 3, 1981.

KKMC is the largest military construction project in the history of the Corps, and it needs engineers.

At a cost of \$7.3 billion, KKMC will be a complete, self-contained city for 70,000 people.

Approximately 70 percent of the construction contracts have been awarded, and work is proceeding rapidly.

Positions are available at grades GS-9 through GS-12 for civil engineers (contract administration); electrical, mechanical, materials, structural and industrial engineers; architects; civil and mechanical engineering technicians; and construction representatives.

## THE CORPS COMMUNITY

The Corps community at KKMC numbers about 1,000, counting employees and their families.

Contractor personnel, including construction workers of some 20 nationalities, are expected to bring the total construction population to a 17,000 peak sometime this year.

The Corps community provides many services. There is a fully accredited international school for kindergarten through ninth grade, with a student-teacher ratio of 10 to one (high school students attend schools in Europe).

There is a contractor-run PX and commissary; a dental clinic, five medical clinics and a modern 100-bed hospital.

There are several dining halls where meals are quite inexpensive; a library and regular flights out of the country.

Housing for Corps employees consists of villas, two- and three-bedroom mobile homes, and apartments for single people.

There is a waiting list for housing, so employees being recruited may experience some delay in their reporting dates.

The benefits for employees at KKMC are the same as for all Corps employees in Saudi Arabia; 20-percent pay differential, cost of living allowance, Sunday pay differential, and housing and transportation furnished.

## THE NEED

MED has a continuing, urgent need for civil, electrical and mechanical engineers at other locations in Saudi Arabia as well.

The division performs design, construction management and contract administration for the \$20 billion program, funded entirely by Saudi Arabia, including all Corps costs and salaries.

Anyone interested in employment with MED may send a Standard Form 171 to U.S. Army Engineer Division, Middle East (Rear), P.O. Box 2250, Winchester, VA 22601; or may call the Personnel Sub-Office at (703) 667-2295, extension 2174/2447; or FTS 652-2174/2447.

# 7

## WARNING SIGNALS THAT CAN SAVE YOUR LIFE...IF YOU SEE YOUR DOCTOR!

1. Change in bowel or bladder habits.
2. A sore that does not heal.
3. Unusual bleeding or discharge.
4. Thickening or lump in breast or elsewhere.
5. Indigestion, or difficulty in swallowing.
6. Obvious change in wart or mole.
7. Nagging cough or hoarseness.

American Cancer Society

# Time conversion from zone to zone isn't hard

compiled by Scott Voss, AS-G

Do you have problems interpreting time from one part of the world to another? The following is for your convenience.

## WORLD TIME ZONES

The date and time in messages are expressed as six digits followed by the ZULU (Z) zone suffix.

The first pair of digits denotes the date, the second pair the hour (24-hour clock), the third pair the minutes past the hour.

An example of a date-time group is 201132Z.

Greenwich Civil Time (GCT) is accepted as the basis for measuring time throughout the world.

Time groups expressing GCT are designated by the letter suffix Z immediately following the last digit of the group. Any other suffix used after a four-digit time group (corresponding to the Z of GCT) indicates the zone in which the local time is expressed.

It does not designate location on the earth's surface. The proper suffix can be determined from the time zone map and the time conversion table.

Numerals in the zone indicate the number of hours that local time differs from GCT. Time zones extend east and west from Greenwich to the 180th meridian.

If a given zone lies east of the prime meridian, the appropriate number is added to convert it to local time.

In converting local time to GCT, the appropriate number is subtracted. For zones west of the prime meridian, the process is reversed.

Deviation in time shown on the time zone map will occur because of local policies or conditions.

## TIME CONVERSION TABLE

The time conversion table converts time in one zone to time in any other zone.

Vertical columns indicate time zones. Zone Z is Greenwich Civil Time.

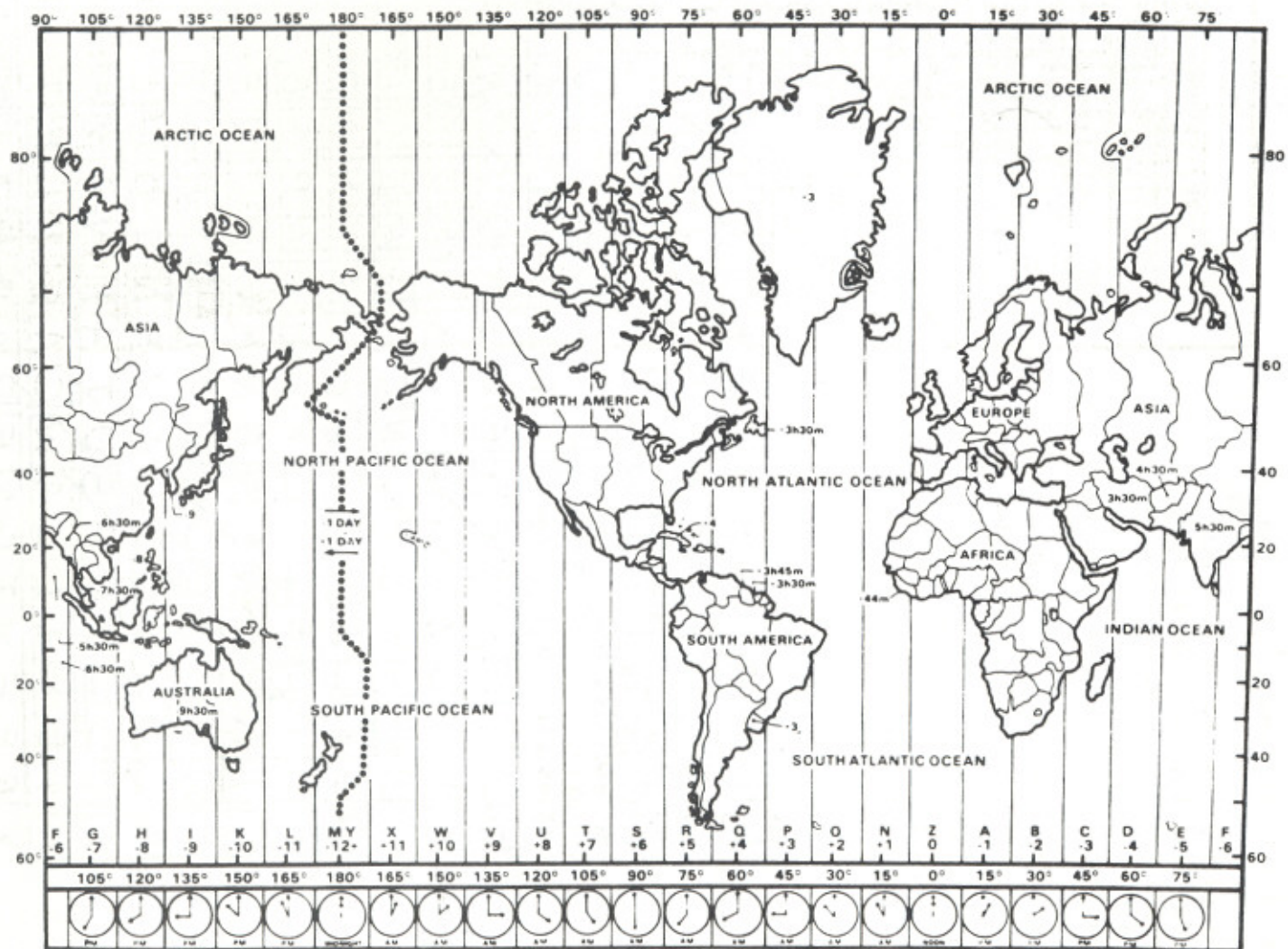
Time in each successive zone to the right of zone Z is one hour later, to the left of zone Z is one hour earlier. Time in each successive shaded area to the right is one day (24 hours) later, to the left is one day (24 hours) earlier.

To determine the time in zone Z when it is 0500 hours in zone I, proceed as follows:

Find 0500 in column I and locate figure (2000) in the corresponding line in column Z. Since 2000 is not in a shaded area, the time is 2000 hours yesterday.

## TIME CONVERSION TABLE

|    |   | ZULU |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|----|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|    |   | DATE |      |      |      |      |      |      |      |      |      |      |      | TIME |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Y  | X | DATE |      |      |      |      |      |      |      |      |      |      |      | TIME |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|    |   | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 | 0100 | 0200 | 0300 | 0400 | 0500 | 0600 | 0700 | 0800 | 0900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 |
|    |   | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 | 0100 | 0200 | 0300 | 0400 | 0500 | 0600 | 0700 | 0800 | 0900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 |
|    |   | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 | 0100 | 0200 | 0300 | 0400 | 0500 | 0600 | 0700 | 0800 | 0900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 |
|    |   | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 | 0100 | 0200 | 0300 | 0400 | 0500 | 0600 | 0700 | 0800 | 0900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 |
|    |   | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 | 0100 | 0200 | 0300 | 0400 | 0500 | 0600 | 0700 | 0800 | 0900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 |
|    |   | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 | 0100 | 0200 | 0300 | 0400 | 0500 | 0600 | 0700 | 0800 | 0900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 |
|    |   | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 | 0100 | 0200 | 0300 | 0400 | 0500 | 0600 | 0700 | 0800 | 0900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 |
|    |   | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 | 0100 | 0200 | 0300 | 0400 | 0500 | 0600 | 0700 | 0800 | 0900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 |
|    |   | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 | 0100 | 0200 | 0300 | 0400 | 0500 | 0600 | 0700 | 0800 | 0900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 |
|    |   | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 | 0100 | 0200 | 0300 | 0400 | 0500 | 0600 | 0700 | 0800 | 0900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 |
|    |   | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 | 0100 | 0200 | 0300 | 0400 | 0500 | 0600 | 0700 | 0800 | 0900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 |
|    |   | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 | 0100 | 0200 | 0300 | 0400 | 0500 | 0600 | 0700 | 0800 | 0900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 |
|    |   | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 | 0100 | 0200 | 0300 | 0400 | 0500 | 0600 | 0700 | 0800 | 0900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 |
|    |   | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 | 0100 | 0200 | 0300 | 0400 | 0500 | 0600 | 0700 | 0800 | 0900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 |
|    |   | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 | 0100 | 0200 | 0300 | 0400 | 0500 | 0600 | 0700 | 0800 | 0900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 |
|    |   | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 | 0100 | 0200 | 0300 | 0400 | 0500 | 0600 | 0700 | 0800 | 0900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 |
|    |   | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 | 0100 | 0200 | 0300 | 0400 | 0500 | 0600 | 0700 | 0800 | 0900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 |
|    |   | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 | 0100 | 0200 | 0300 | 0400 | 0500 | 0600 | 0700 | 0800 | 0900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 |
|    |   | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 | 0100 | 0200 | 0300 | 0400 | 0500 | 0600 | 0700 | 0800 | 0900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 |
|    |   | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 | 0100 | 0200 | 0300 | 0400 | 0500 | 0600 | 0700 | 0800 | 0900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 |
|    |   | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 | 0100 | 0200 | 0300 | 0400 | 0500 | 0600 | 0700 | 0800 | 0900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 |
|    |   | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 | 0100 | 0200 | 0300 | 0400 | 0500 | 0600 | 0700 | 0800 | 0900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 |
|    |   | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 | 0100 | 0200 | 0300 | 0400 | 0500 | 0600 | 0700 | 0800 | 0900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 |
|    |   | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 | 0100 | 0200 | 0300 | 0400 | 0500 | 0600 | 0700 | 0800 | 0900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 |
|    |   | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 | 0100 | 0200 | 0300 | 0400 | 0500 | 0600 | 0700 | 0800 | 0900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 |
|    |   | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 | 0100 | 0200 | 0300 | 0400 | 0500 | 0600 | 0700 | 0800 | 0900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 |
|    |   | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 | 0100 | 0200 | 0300 | 0400 | 0500 | 0600 | 0700 | 0800 | 0900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 |
|    |   | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 | 0100 | 0200 | 0300 | 0400 | 0500 | 0600 | 0700 | 0800 | 0900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 |
|    |   | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 | 0100 | 0200 | 0300 | 0400 | 0500 | 0600 | 0700 | 0800 | 0900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 |
|    |   | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 | 0100 | 0200 | 0300 | 0400 | 0500 | 0600 | 0700 | 0800 | 0900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 |
|    |   | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 | 0100 | 0200 | 0300 | 0400 | 0500 | 0600 | 0700 | 0800 | 0900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 |
|    |   | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 | 0100 | 0200 | 0300 | 0400 | 0500 | 0600 | 0700 | 0800 | 0900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 |
|    |   | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 | 0100 | 0200 | 0300 | 0400 | 0500 | 0600 | 0700 | 0800 | 0900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 |
|    |   | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 | 0100 | 0200 | 0300 | 0400 | 0500 | 0600 | 0700 | 0800 | 0900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 |
|    |   | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 | 0100 | 0200 | 0300 | 0400 | 0500 | 0600 | 0700 | 0800 | 0900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 |
|    |   | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 | 0100 | 0200 | 0300 | 0400 | 0500 | 0600 | 0700 | 0800 | 0900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 |
|    |   | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 | 0100 | 0200 | 0300 | 0400 | 0500 | 0600 | 0700 | 0800 | 0900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 |
| </ |   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |



STANDARD TIME ZONE OF THE WORLD

(From page 18)

Time conversion

# Undertows

by Henrik C. Strandkov, CO-RE

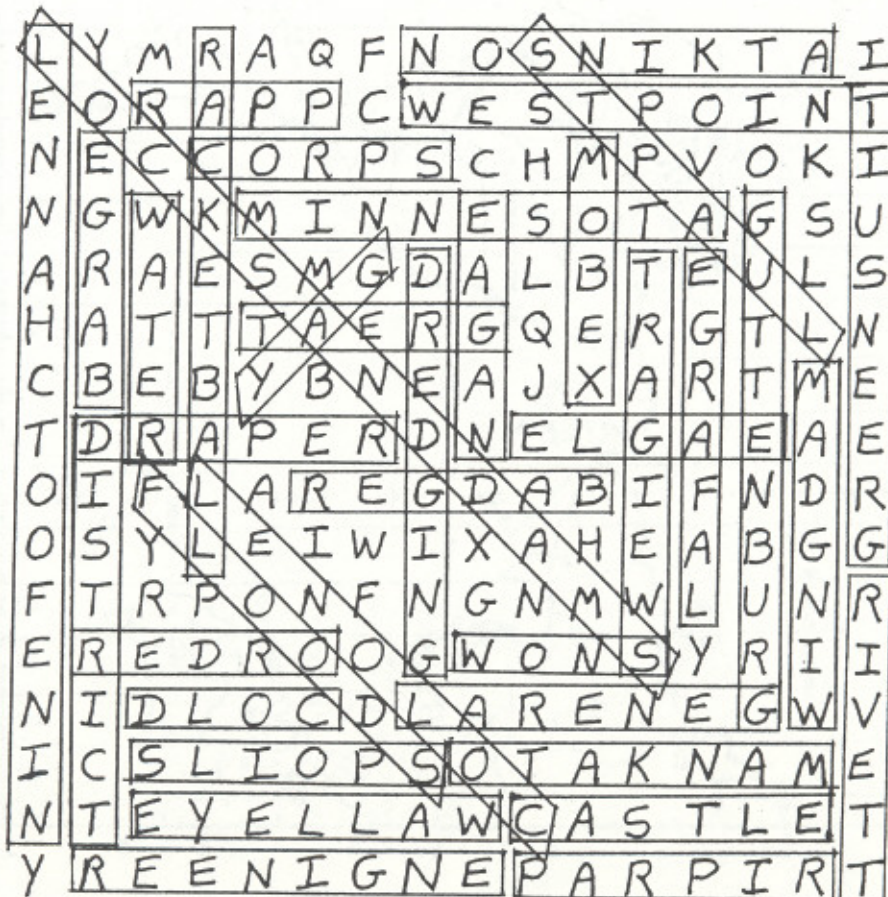
Last month, I presented a word-search puzzle related to Col. William W. Badger, the work of the St. Paul District, the Army and life in Minnesota.

The solution is as follows:

Atkinson  
Badger  
barge  
castle  
cold  
Colonel  
Corps  
District  
Draper  
dredging  
Eagan  
eagle

engineer  
floods  
Gay  
General  
GREAT  
green suit  
Guttenburg  
La Farge  
locks and dams  
Mankato  
Minnesota  
Mobex  
order

racketball  
Rapp  
riprap  
Rivett  
nine-foot channel  
snow  
spoils  
St. Paul  
Sweigart  
walleye  
water  
West Point  
wing dam



# Cardinals win annual volleyball tournament

By Konstantin Morhun, ED-D

The annual 1982 Corps Summer Picnic volleyball tournament champions were the Design Branch Cardinals.

The Cardinals played brilliantly throughout the competition held at Como Park in St. Paul, Minn., on June 25.

The members of the Cardinal team were Jane Fletcher, Bob Fletcher, John Plump, Denise Rivet, Dave Tschida, Sharon Brown, Konstantin Morhun (team captain), Bob Fletcher Jr. and Linda Fletcher.

The greatest thrill came when A.C.E., the champions from last summer's tournament, played against the Cardinals in the championship match.

The A.C.E.'s defeated the Leaping Lizards, the Spoilers and the Spikers to get into the championship round.

The Cardinals eliminated the High Flyers, the All My RIF-ables and the Total Recs to reach the final match.

In the beginning of the three-game championship match, everything looked good for A.C.E. as they won the first game, 15-4.

In the second game, a big push suddenly came to the Cardinals and the Cardinal attackers overwhelmed A.C.E., winning with a score of 15-13.

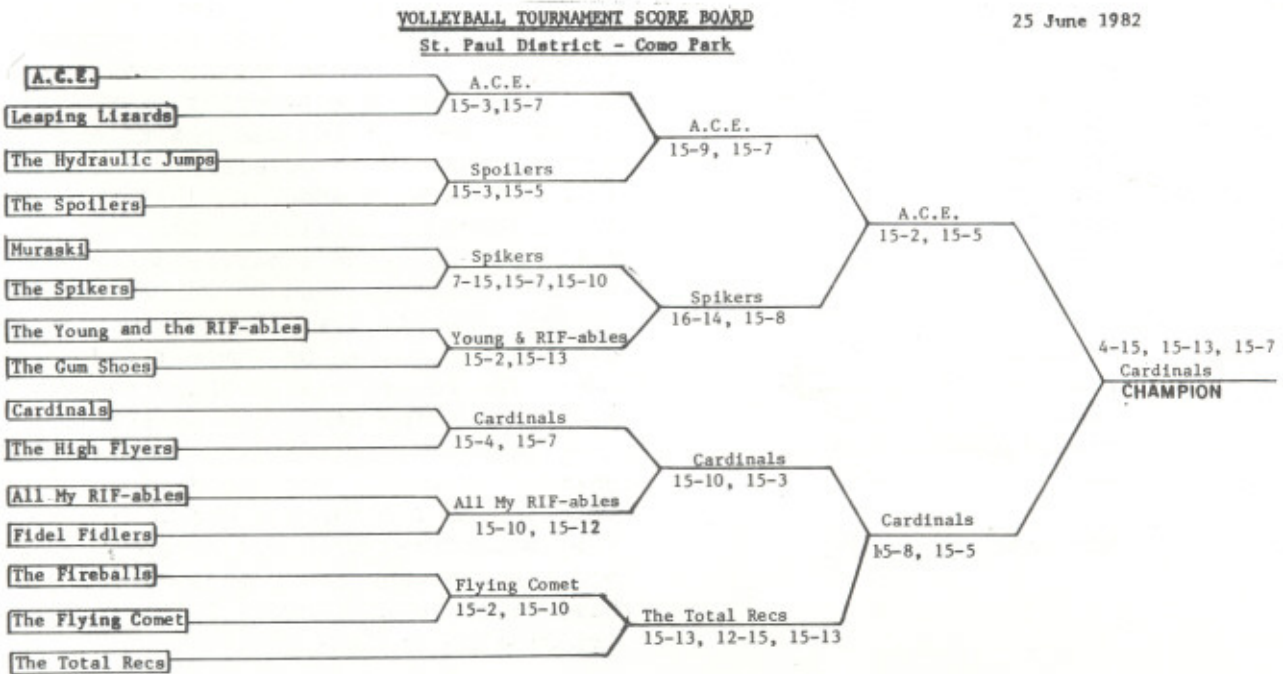
The last game was in favor of the Cardinals from the beginning to the end, as the Cardinals won the championship game, 15-7.

The star of the victory was Ms. Rivet who made timely and remarkable set-ups for the Cardinals' fearless attackers.

My thanks go out to all participants at Como.

Bill Vennemann deserves special praise for setting up the three volleyball courts. Without his efforts, the tournament could not have been possible.

Thanks also go to the referees--Dave Dralle, Tom Raster and Dick Beatty--whose precision calls helped make this year's tournament very enjoyable.



# 1982 district fishing contest is picking up

by Wilbur Walleye

HAVE YOU HEARD...

After a slow start, entries in the 1982 St. Paul District Fishing Contest are being made in all but two species (smallmouth bass and salmon).

Watch for the new status report for 1982 to be released soon. A brief summary is below:

## Branch rankings:

|    |       |     |
|----|-------|-----|
| 1. | CO-RF | 155 |
| 2. | PD-ER | 98½ |
| 3. | PD-PF | 36½ |
| 4. | ED-GH | 30  |
| 5. | AS    | 22  |

## District fisherman rankings:

|    |                 |    |
|----|-----------------|----|
| 1. | Bruce Norton    | 52 |
| 2. | Don Kohler      | 47 |
| 3. | Robbin Blackman | 40 |
| 4. | Gary Palesh     | 37 |
| 5. | Jon Niehaus     | 32 |

| Species           | Name      | Size       |
|-------------------|-----------|------------|
| Muskellunge       | Kumpula   | 30¼ inches |
| Northern pike     | Palesh    | 26 3/4     |
| Walleye           | Blackman  | 24         |
| Largemouth bass   | Norton    | 18½        |
| Smallmouth bass   |           |            |
| Sauger            | Niehaus   | 16         |
| Crappie           | Reilly    | 14         |
| Bluegill          | Willis    | 10½        |
| Pumpkinseed       | Blackman  | 8½         |
| White bass        | Kohler    | 15 1/8     |
| Yellow perch      | Palesh    | 12 1/8     |
| Rock bass (tie)   | Haumersen | 11         |
|                   | O'Keefe   | 11         |
| Rainbow trout     | Kohler    | 19         |
| Brown trout       | Norton    | 20         |
| Brook trout       | Norton    | 12½        |
| Salmon            |           |            |
| Great Lakes trout |           |            |
| Steelhead         | Ballman   | 26         |
| Bullhead          | McNally   | 13 7/8     |
| Catfish           | Engel     | 16½        |
| Carp              | Flesche   | 30½        |
| Sheepshead        | Kohler    | 15½        |
| Other             |           |            |
| Sucker            | Niehaus   | 22½        |

ED FICK went salmon fishing on Lake Michigan with a party of three others, including 12-year-old son Joel, on June 11-12. Fick reports that the king salmon were pretty active, especially for such passive fishermen. A total of 19 fish were landed out of 30 strikes with a total weight of approximately 220 pounds. Needless to say, Fick plans to return for more fishing, but he is also fearful that his son will never want to fish for anything else. Fick is hopeful his photos will develop well enough to impress his colleagues in the office.

A PARTY OF five--Jim Murphy, Kent Pederson and three relatives of Pederson--recently returned from Mobridge, S.D. The group spent three days fishing on Lake Oahe, which is a Corps of Engineers reservoir. The report is that fishing was super with a total of 55 walleyes being caught with the largest, a 24-inch beauty. Sixteen of the fish caught on June 18 totaled about 40 pounds with the next two days producing similar catches. The only difficulty encountered was overcoming the high winds. If you would like to learn more about their trip and view some interesting pictures, contact Murphy or Pederson.

PAT FOLEY and a party of four others (names withheld for obvious reasons) participated in this year's great spring smelt run. The group went to Lake Superior at the mouth of Lester River. Foley managed to earn honors with a total of three smelt. The other two smelt taken were somehow divided amongst the remaining four smelters. One of Foley's smelt put up quite a battle but after what seemed like minutes, he was able to pull it in with the dip net. Foley reports that the nine-incher caused only minor damage to the net. The report has it that the group did manage to bring home five pounds of smelt (courtesy of a local fish mart, at \$1.25 per pound, cleaned). For those of you who have experienced smelting, you can appreciate the fun encountered with the fires to keep warm and the lanterns for light. For those who have never gone, contact Foley for some very interesting insight.

IF YOU HAVE a story you would like to share, please contact one of this year's fishing contest committee members and it will be shared with me, Wilbur Walleye.

# Command Goals



Support the Total Army



Support the Air Force and Federal Agencies



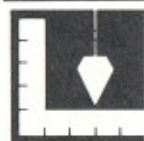
Support the Nation



Develop the USACE Workforce



Manage USACE Resources



Produce a Quality Product



Support Other Nations



Provide Leadership



US Army Corps  
of Engineers

J. K. BRATTON  
Lieutenant General, USA  
Commanding

OLD TIMER'S CORNER  
SEVENTH ANNUAL REUNION OF CORPS OF ENGINEERS EMPLOYEES,  
PAST AND PRESENT, ON SEPT. 8, 1982

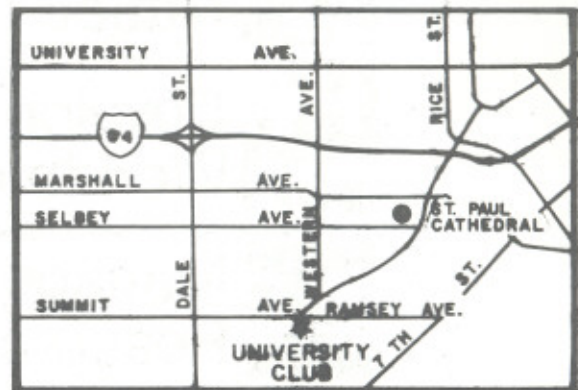
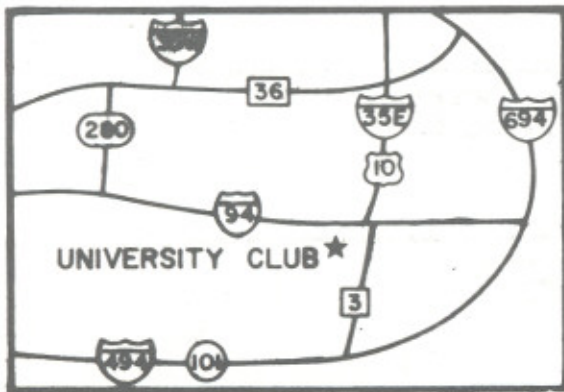
The meeting place is the University Club, 420 Summit Ave., St. Paul, Minn. (see maps), between noon and 5 p.m.

Lunch will be served at 1 p.m., with a choice of Roast Beef with Potatoes and Salad or Capon Carmania with Sherry Sauce at the price of \$6.60 and \$6.25, respectively, per serving including gratuity and sales tax.

All past and present employees of the Corps of any office or field unit with their spouses, and spouses of former employees, are welcome.

For those who cannot make it to the luncheon, you are welcome to come later to meet and greet old friends.

Maps showing how to get there by car:



If you have any news about yourself or of any present or past employee of the Corps which may be of general interest to attendees of the reunion, please attach a note with your reservation request.

Reservation form: Fill out, clip and return the form to register your reservation. All reservations must be received by Aug. 31, 1982.

Corps Reunion luncheon reservation

|             |                                 |              |
|-------------|---------------------------------|--------------|
| Name        | No. of meals--Roast Beef dinner | \$6.60 _____ |
| Street      | No. of meals--Capon Carmania    | \$6.25 _____ |
| City        | Amount enclosed                 | _____        |
| State & Zip | Names of guests                 | _____        |

Luncheon tickets may be picked up at the University Club before lunch. Mail reservations to Ms. Joan Quitter, 1059 Virginia, St. Paul, MN 55117; phone (612) 489-3043. Please make checks payable to Joan Quitter, treasurer. Reservations must be received by Aug. 31, 1982.