

DWR NEWS | *People*

SUMMER 2008



California in a Drought

Dealing with the drought, DWR Director Snow watches Governor Schwarzenegger sign an Executive Order directing DWR to respond to water shortage emergencies. Lake Oroville in background.



Scientists Discover
New Species
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to Kennedy
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Lake Davis
Restocked
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By Jessica Pearson

The State Water Project. Crisis in the Delta. Climate change. Statewide drought. Levee repairs. These are just a few of the challenges facing DWR each day. As you well know, DWR's 3,000-plus employees work on a diverse range of issues and **Director Lester Snow** relies upon staff for up-to-date information in each of those issue areas. A significant part of my job as the Director's Policy Advisor involves briefing and preparing him for meetings, briefings and speaking engagements on these and other challenges at DWR. Below are some highlights I compiled from Director Snow's calendar in recent weeks. This excerpt offers a view into what it is like to lead DWR and gives you an idea of where the Director might be headed when you see him in the elevator of the Resources Building.

May 22: Attended a briefing for U.S. Army Corps of Engineers Brigadier General John McMahon on the Sacramento-San Joaquin Delta. The Director spoke about the status of ongoing Delta efforts, including the environmental studies for the Bay Delta Conservation Plan, the Delta Vision process, and emergency response preparation.

May 27 – 28: Director Snow and staff traveled to Glendale to visit the Southern District office and on the following day attended the commissioning ceremony for the refurbishment of a pumping unit at the Edmonston Pumping Plant. The first of four new pumps provides an annual energy savings equivalent to a 12-acre solar farm. The Director spoke to the attendees about reducing the carbon footprint of the State Water Project while providing a reliable water supply. This event highlighted one of the many greenhouse gas reduction efforts that are ongoing at DWR.

June 4: The Director participated in a press conference at the State Capitol with Governor Schwarzenegger to declare that California is in a statewide drought. Director Snow also conducted numerous interviews with print, online and radio media on the topic of drought and drought response.

June 12: The Governor issued a drought emergency declaration for nine Central Valley counties after the U.S. Bureau of Reclamation announced that it was cutting Central Valley Project water allocations. This reduction would have a serious impact on irrigation

supplies for farmers and for the economy. Director Snow and other staff were on hand to handle press and legislative inquiries, as well as to discuss a number of actions to alleviate drought impacts.

June 14: Director Snow spoke to the Central California Mayors Conference in Fresno on the topic of "California's Comprehensive Water Package." He addressed the audience of mayors on drought, climate change and the need to act now to California's water challenges. His key takeaway point: A comprehensive solution must include improved Delta conveyance in order to address water supply reliability and ecosystem sustainability problems, increased water storage and funding for Integrated Regional Water Management.

June 17: Director Snow gave the welcoming remarks to the "Building Conservation into Infrastructure Planning" leadership workshop sponsored by the departments of Transportation, Fish and Game and Water Resources. The Director spoke to the group about the way DWR approaches its mitigation and habitat enhancement responsibilities. He implored those in attendance (mostly state agency Directors, Deputy Directors and a few agency Secretaries) to commit staff and funding to promote efforts that focus on larger, landscape-scale habitat restoration and enhancement projects, rather than project-by-project mitigation as has long been the norm at the state level.

June 23 – 24: Director Snow and the executive staff met with hundreds of employees at the Delta Field Division, San Luis Field Division, San Joaquin District, San Joaquin Field Division and Southern Field Division, with stops at other DWR projects along the way. (More information about the trip can be found at www.dwrtour.blogspot.com)

These events are only a small sampling from Director Snow's calendar. Each day is also filled with many internal meetings, briefings, phone calls and teleconferences to address the many and vital issues facing DWR. The challenges of leading a department with ever-expanding responsibilities, Director Snow's ability to do so depends greatly on the outstanding work, dedication and expertise of DWR staff.

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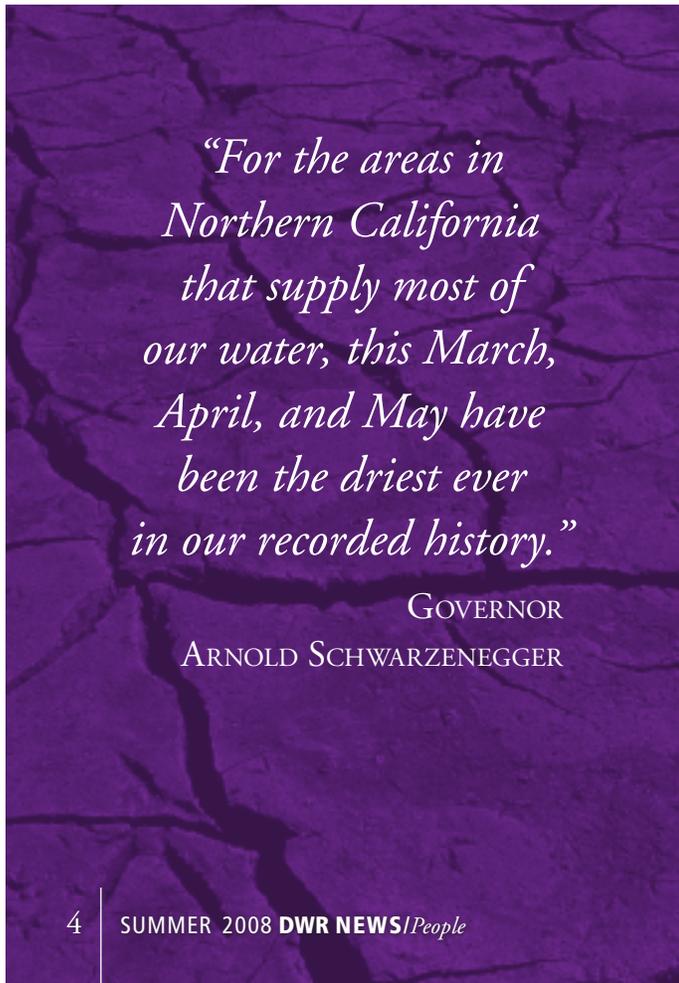
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CALIFORNIA IN A DROUGHT



“For the areas in Northern California that supply most of our water, this March, April, and May have been the driest ever in our recorded history.”

GOVERNOR
ARNOLD SCHWARZENEGGER

By Margarita Macias

As Northern California recorded its driest spring on record and the State Water Project struggled to meet the needs of cities and farms while complying with court-ordered pumping restrictions, **Governor Schwarzenegger** on June 4 proclaimed a statewide drought.

“For the areas in Northern California that supply most of our water, this March, April, and May have been the driest ever in our recorded history,” said Schwarzenegger. “As a result, some local governments are rationing water, developments can’t proceed, and agricultural fields are sitting idle. We must recognize the severity of the crisis we face, so I am signing an Executive Order proclaiming a statewide drought and directing my Department of Water Resources and other entities to take immediate action to address this situation.”

In February of 2008, Lake Oroville was at 1.4 million acre-feet, 40 percent of capacity. When full, Lake Oroville is 900 feet above sea level. The reservoir’s capacity is 3.5 million acre-feet.

“We must recognize the severity of the crisis we face, so I am signing an Executive Order proclaiming a statewide drought and directing my Department of Water Resources and other entities to take immediate action to address this situation.”

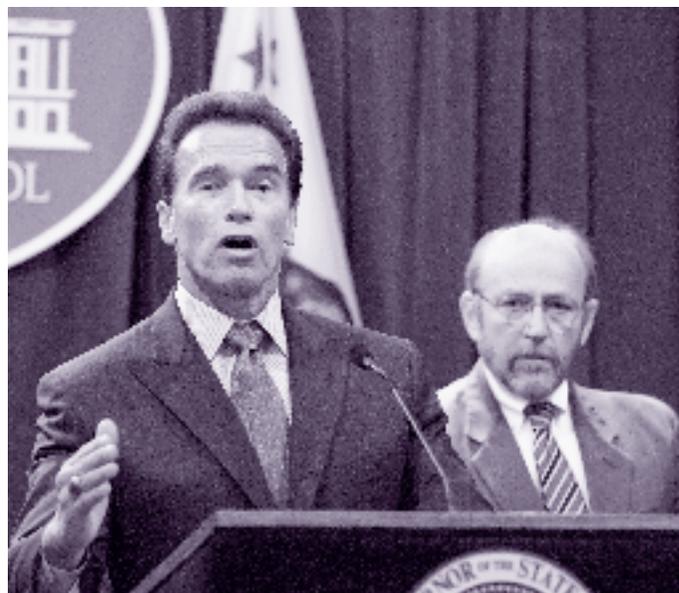
GOVERNOR
ARNOLD SCHWARZENEGGER

Responding to the Governor’s order, DWR will expedite water transfers, prepare to operate a drought water bank, fund conservation and other water-stretching programs, conduct educational outreach programs, and take other appropriate actions to minimize impacts to California’s economy and people.

The Executive Order directs DWR to expedite existing grant programs for water conservation and water use reduction programs that are “capable of timely implementation to ease drought conditions in 2008 or 2009,” and to work cooperatively with water suppliers to improve the water shortage contingency elements of their Urban Water Management Plans.

On June 12, Governor Schwarzenegger also declared a State of Emergency in nine Central Valley counties. The drought-stricken counties named in the declaration are Sacramento, San Joaquin, Stanislaus, Merced, Madera, Fresno, Kings, Tulare and Kern.

“Water agencies around the state are gearing up for the worst drought in 16 years. In times of cutbacks, agriculture is the first to be hit and they are being hit very hard especially in the San Joaquin Valley,” said **Jennifer Persike**, Director of Strategic Coordination/Public Affairs for the Association of California Water Agencies (ACWA). Jennifer participated in



the first interactive drought Web cast co-sponsored by the Department of Water Resources, ACWA, and the California Water Awareness Campaign.

The 50-minute July 18 Web cast is archived at <http://www.webexlivestream.com/water/26945/>

ACWA, a non-profit organization that represents 450 water agencies throughout California, is working on a drought segment for Huell Howser’s “California’s Water” series on public television.

DWR’s final snow survey this year showed the statewide snowpack water content at 67 percent of normal. Major California reservoirs are extremely low due to two consecutive



Houseboats at Lake Oroville in 2005 (a high water year) and earlier this year.

dry years, including Lake Oroville, the principal storage reservoir for the State Water Project. Further, the Colorado River which supplies much of Southern California has just suffered through an eight-year drought.

According to a June 13 op/ed article by **DWR Director Lester Snow** in the San Diego Union-Tribune, California will have less water in its reservoirs than during the state's worst drought in 1976-77 if we have a third consecutive dry year in 2009. California's last major statewide drought was from 1987-1992.

This drought is an urgent warning to reform and modernize our water supply systems in ways that protect the ecosystem of the Sacramento-San Joaquin Delta, the major hub of California's water delivery system. To save water for drier years, more storage is essential. The last major State-built reservoirs were constructed more than 30 years ago.

"This drought is an urgent reminder of the immediate need to upgrade California's water infrastructure," said Governor Schwarzenegger. "There is no more time to waste because nothing is more vital to protect our economy, our environment and our quality-of-life. We must work together to ensure that California will have safe, reliable, and clean water not only today but 20, 30 and 40 years from now."

Water Conservation Efforts

As part of the 2008 California Water Awareness Campaign titled "Nice Save! Use Water Wisely," water agencies throughout California are promoting water conservation tips.

"We are preparing to provide technical assistance on water conservation subjects, such as leak detection," said **Jeanine Jones**, DWR's Interstate Resources Manager. "Something that is very important, especially for small water systems who are really affected the earliest by drought conditions. Past droughts have shown that small systems on unreliable fractured rock groundwater sources are especially at risk."

Water Conservation Tips

Inside Home

- Use dishwashers and washing machines for full loads only
- Use High Efficiency clothes washer (It could save 20 gallons per load)
- Use High Efficiency toilets
- For older toilets, use displacement bags, toilet dams or adjustable flappers
- Install low-flow shower heads that use no more than 2.5 gallons per minute

- Take shorter showers (under 5-minutes could save 15 gallons per shower)
- Turn water off when brushing teeth or soaping hands
- Don't use toilet as wastebasket
- Fix leaky toilets or faucets

Outside Home

- Adjust irrigation timer as weather changes
- Water at night or early morning to prevent excessive evaporation
- Don't over water, every third day is usually enough
- Use broom, instead of hose, to clean driveways, sidewalks, patios
- Wash cars/boats with bucket, sponge, and hose with self-closing nozzle

For more information on drought and water conservation, please visit:

<http://water.ca.gov>
<http://acwa.com>
www.wateraware.org

Additional Information

DWR's 2008 Drought Update Report is now available. The 110-page report, which covers recent hydrologic conditions, advances in climate and drought research, and emergency declaration information, is available online at <http://watersupplyconditions.water.ca.gov/DroughtReport2008.pdf>

DroughtReport2008.pdf

Single copies are available for no charge by calling (916) 653-1097.

An updated Urban Drought Guidebook is also available. This 208-page document provides technical assistance to local water suppliers: <http://www.owue.water.ca.gov/docs/UrbanDroughtGuide.pdf>

The Governor's drought Executive Order is available at <http://gov.ca.gov/executive-order/9797/> and Governor's State of Emergency Proclamation is found at <http://gov.ca.gov/proclamation/9898> ■



DWR STATEWIDE DROUGHT COORDINATOR

Wendy Martin became DWR's Statewide Drought Coordinator effective June 17. She is directing many of the activities mentioned in the Governor's Executive Order.

"In responding to current drought conditions, it is critical that we not only provide tools and assistance that provide immediate relief, but also take steps to implement programs that will help in the future, if conditions continue to be dry next year and beyond," said Martin.

Wendy, who originally joined DWR in 1981, recently returned to the department in March of this year. In addition to her role as the department's Statewide Drought Coordinator, she is also serving as the Executive Project Manager coordinating and overseeing programs on Delta sustainability issues.

During her 27 years with the State, Wendy has served as the Chief Deputy Director of the CALFED Bay-Delta Program, where she oversaw the implementation of water management and ecosystem restoration programs. She also worked as an Environmental Specialist for DWR's Division of Flood Management and was a staff member of The Reclamation Board. ■





DWR Scientists Discover

NEW INSECT SPECIES

By Matt Notley

Two DWR Environmental Scientists made news in the bug world recently with their discovery of a new species of insect, the chironomid *Hydrobaenus saetheri*, a small fly known as a midge that has only been found in the Yolo Bypass.

Ted Sommer, Senior Environmental Scientist, and **Gina Benigno**, Environmental Scientist of the Division of Environmental Services, discovered the new species of midge fly while studying why fall Chinook salmon grow faster and larger during floods in the Yolo Bypass.

Sommer had earlier shown that Chinook salmon grow larger when the bypass floods in winter, and had suspected it was because of an abundance of midge flies at the same time of year.

"We learned that the food web in the bypass is supported almost entirely by the midge larvae," said Sommer, referring to his study in 1997. "Turns out the Yolo Bypass is a big cafeteria for fish compared to the Sacramento River."

How the Study Began

Where all these midge flies were coming from, and why they appeared almost as suddenly as the flood waters filled in the Yolo Bypass, was the next question to be answered.

Sommer tapped Benigno in October of 2004, then new to DWR as a Scientific Aid after graduating from the University of California, Berkeley, to investigate where the flies came from. Benigno also helped with the Yolo Bypass long-term monitoring field work, which involved checking fish traps, seining, as well as some routine lower trophic sampling (larval fish, invertebrates, algae).

The discovery of the midge dates back to 1997 when Sommer conducted a CALFED-funded study designed in part

The 59,000-acre Yolo Bypass is a key stop for waterfowl on the Pacific Flyway, and a productive feeding area for Chinook salmon.



“This midge is neat because it has a life history adapted to living on a floodplain. It’s pretty spectacular that they happen to be the most abundant prey item of juvenile Chinook salmon rearing in the main floodplain of the largest river in California.”

GINA BENIGNO
ENVIRONMENTAL SCIENTIST

to find out how many young salmon were trapped in Yolo Bypass after flood events. “We found a different story out here,” Sommer recalls, “that fish were growing like mad.”

“Really the research began with Ted,” Benigno recalls. “He had been itching to find out where the midges come from after his findings about salmon growth, diet, and invertebrate prey abundance in the Yolo Bypass compared to the Sacramento River.”

Sommer, who has logged 18 years at DWR, has worked on several fisheries biology studies and has published more than 35 scientific papers on aquatic ecosystems. Sommer has a Bachelor of Science in Aquatic Biology from the University of California, Santa Barbara. He also has a Master of Science and Ph.D. in Ecology from the University of California, Davis. Sommer says that since youth, he had aspirations of becoming a marine biologist.



This study involved digging up square samples of dirt along different points in the Yolo Bypass. The dirt was transferred to plastic bins, filled with water, and stored at the University of California, Davis. Every couple of days Benigno would swirl a net around the bins to help release the midges.

According to Gina, the larvae emerge from a resting stage in sediment within a couple days of flooding and grow rapidly. The “feeding frenzy” is the fish feeding on the larvae, which begins as soon as the larvae emerge from the sediment.

Through a series of studies along the bypass conducted that winter, she determined that the flies lay dormant in the dry soil throughout summer and emerge a day or two after the floodwaters pour in, generating a feeding bonanza for fish and birds.

As Benigno checked and double-checked the species of midge, she couldn’t come up with a match.

Top Left: Professor Cranston (center), who has worked at the University of California, Davis since 2000, examines midge in a higher magnifying compound microscope with DWR Scientists Ted Sommer and Gina Benigno.

Hydrobaenus saetheri is the new species found in the Yolo Bypass.



*“Only at this stage was I confident that it was a new species – that is, not known to science. And I set about providing the formal description, and named the insect for Saether, thus *Hydrobaenus saetheri*.”*

PROFESSOR PETER S. CRANSTON
EXPERT ON CHIRONOMIDS

Identifying the New Species

Benigno and Sommer consulted University of California, Davis Entomology Professor **Peter S. Cranston**, a world renowned expert on chironomids, which are small gnatlike, non-biting aquatic flies also known as midges. Many species of chironomids resemble mosquitoes, and can amass huge, nuisance-level swarms at their peak and wreak havoc on automobile windshields on the Yolo causeway in winter.

“It was excellent for us to have an expert right here,” Sommer said. “It was a happy coincidence.”

Cranston recalls that it was not immediately obvious. “First I had to identify the insect to a broader grouping – its genus. This was straightforward,” he said. “The genus *Hydrobaenus* is readily recognizable in each of its life history stages – larva, pupa and adult.”

To confirm it was a new species, Cranston needed to refer to a revisionary study published in 1976 by **Ole Saether**, in which he provided details of all the 19 to 20 species then known from the northern hemisphere. As he suspected, it was not among those, so he then had to check against all recent literature to confirm that the bypass midge had not been recognized and described in the intervening 30 years.

“Only at this stage was I confident that it was a new species – that is, not known to science,” Cranston said. “And I set about providing the formal description, and named the insect for Saether, thus *Hydrobaenus saetheri*.”

What started out as a field study to find out where swarms of tiny flies were emerging from in the Yolo Bypass turned into an unexpected discovery in one of California’s most important river floodplains.

Located near downtown Sacramento, the Yolo Bypass’s primary purpose is to provide flood protection during the wet winter months.

Recognition for Discovery

Although it was made in 2004, recognition of the discovery didn't pick up steam until last year when Cranston's article formally describing the midge was published in the Caddis Press. A short time later, Benigno and Sommer published an article in the scientific publication *Hydrobiologia*, describing how the midge hatches out of the soil during flood events. On May 1, 2008, The Sacramento Bee picked up the story and put the discovery on the front page for all of Northern California to see.

"The newspaper article was more attention than I expected," Benigno admits. "I have to say that it was really gratifying to see an article about food webs on the front page of the Bee. A few people have gotten in touch with me and asked for the manuscript, so there is some interest out there."

The midge also feeds another native fish, the Sacramento splittail. Sommer's earlier studies also documented that the splittail population increases in the bypass in years with at least three weeks of flooding. *Hydrobaenus saetheri* is why. Because of the sustained flooding more splittail are attracted to the bypass because of the abundance of midges.

Future Plans

Funding for the midge research came from the CALFED Ecosystem Restoration Program, and Benigno said she would like to study the midge further if more funding becomes available.

"It would be interesting to find out more about the distribution of the midge across the floodplain," Benigno said. "What types of locations have the greatest emergence, what conditions make the sediment right for the larvae to lay dormant over summer, how do they respond to different flood events."



"Understanding what makes floodplains so great is important for setting restoration goals and objectives,"

GINA BENIGNO
ENVIRONMENTAL SCIENTIST

And Benigno and Sommer both agree there is a need for more research on the importance of seasonally inundated floodplains.

"Understanding what makes floodplains so great is important for setting restoration goals and objectives," Benigno says.



“Turns out the Yolo Bypass is a big cafeteria for fish compared to the Sacramento River.”

TED SOMMER
SENIOR ENVIRONMENTAL SCIENTIST

Ted Sommer commutes to work on his bike through the Yolo Bypass, where the new species was identified.

The Yolo Bypass

“The Yolo Bypass is a story in itself,” Sommer said. “That it is able to support so many uses. It was a visionary decision to create this great passive flood facility. You don’t find huge swaths of public land devoted to multi uses anymore.”

The Yolo Bypass is 59,000 acres, 40 miles long and six miles wide. It’s a key stop on the Pacific flyway for waterfowl in the fall and winter, and is now recognized as a productive feeding ground for fall Chinook salmon.

“It’s a giant palate for many uses – agriculture, habitat restoration, public use, fishery sustainability,” Sommer says. “It supports a lot of life.”

The Yolo Bypass’s main function is flood protection during the wet winter months. It carries Sacramento River water at overflow to the Delta. During wet years, the bypass can become completely full of water. The main input to the bypass is through the Fremont Weir, where water spills over into the bypass. Downstream, the Sacramento Weir, just north of West Sacramento, also lets in additional overflow if needed. The bypass ends a few miles north of Rio Vista, where the bypass joins Prospect Slough and then Cache Slough where it reconnects with the Sacramento River. During the summer when the bypass is not flooded, it is used for agriculture. There are four major habitat types in the bypass – permanent wetlands, seasonal wetlands, riparian forest, and grasslands.

Looking back on the discovery, Benigno still holds a special appreciation for the tiny fly. “This midge is neat because it has a life history adapted to living on a floodplain. It’s pretty spectacular that they happen to be the most abundant prey item of juvenile Chinook salmon rearing in the main floodplain of the largest river in California.” ■



DWR Scientists Discover New Insect Species



PPIC Report Endorses Peripheral Canal as

BEST STRATEGY FOR DELTA, WATER SUPPLY

A peripheral canal to move water around the Sacramento-San Joaquin Delta is the best and most economical strategy to revive the troubled Delta ecosystem and ensure a reliable, high-quality water supply for California.

This is the key finding of a multi-disciplinary study released on July 18 by the prestigious Public Policy Institute of California (PPIC).

"A peripheral canal appears to be the best way to maintain a reliable, high-quality water supply and to improve conditions for fish and wildlife," concluded the study. "In contrast to continuing through-Delta pumping or to operating a dual conveyance system, a peripheral canal would be more responsive to the Delta's changes over time."

"Although ending all exports may be best for the fish, it is an extremely costly solution for California. If some of the economic benefits of a peripheral canal are used to support ecosystem investments in the Delta, the tradeoffs might be easier to make."

Currently, under a system in use for over 40 years, State and federal water systems pump water from the South Delta, providing water for about 25 million Californians and extensive farmland irrigation uses in the Central Valley. These operations disrupt natural water flow and are problematic for fish, including native species.

The Delta faces a serious, long-term crisis, with fish populations declining and aging levees deemed at risk from earthquakes or floods. Concerns for fish species survival has led to cutbacks in Delta water exports, thus reducing a major water supply's reliability at a time when California's population is continuing to grow.

Climate change is expected to further complicate the Delta's future, with rising ocean levels and changing river runoff patterns.

The PPIC-UC Davis researchers, including water engineers and fish scientists, concluded that, among four options they

reviewed, the peripheral canal ranks as "the best available strategy." Other Delta water export options studied included: Continued through-Delta exports, a dual conveyance and no exports.

"Coupling a peripheral canal — the least expensive option — with investment in the Delta ecosystem can promote both environmental sustainability and a reliable water supply," said **Ellen Hanak**, PPIC associate director. The canal should be built to satisfy both economic and environmental objectives.

A peripheral canal was envisioned as part of California's State Water Project, but it was deferred in the early 1970s due to a budget squeeze. Though endorsed in 1980 by a two-thirds majority vote of both houses of the Legislature, a referendum in 1982 rejected the canal.

In the decades since, ecosystem problems, fish declines and water supply interruptions have made it clear the Delta needs revitalization.

The PPIC report said action should be taken quickly to build the canal.

"The future of one of California's critical ecosystems, and much of its water supply, depends on decisions made today," said the report summary. "But the cost of inaction is too high to wait much longer. Done right, as part of a balanced governance, infrastructure, and operating solution, a peripheral canal offers the best promise for successfully managing the inevitable transitions of the Delta."

The Public Policy Institute of California is a private, non-profit organization dedicated to informing and improving public policy through independent, objective, nonpartisan research on major economic, social and political issues. It has previously published studies on California water issues, including water supply, water transfers and Delta revitalization. ■



DWR Intensifies Efforts to

THWART INVASIVE MUSSELS

By Pete Weisser

The Department of Water Resources (DWR) intensified its activities in 2008 to combat the spread in California of two invasive mollusk species, quagga and zebra mussels. Top priority is safeguarding the State Water Project (SWP).

As the summer boating season began, DWR reminded recreational boaters of the risk of transporting the mussels via trailered boats, urging them to clean boats and allow a five-day dry out period between launches. Vigilant boaters can help prevent moving the mussels to SWP reservoirs from infested waterbodies.

DWR stringently monitors the SWP for these invasive species, expanding the ranks of staffers trained to recognize and sample for the mussels. DWR is an active partner with other agencies in the unified State response to invasive mussels, led by the Department of Fish and Game (DFG).

At press time, no quagga or zebra mussels had appeared in the SWP. Monitoring along the SWP began in early 2007 after discovery of quagga in the lower Colorado River in

January, 2007. Zebra mussels were found for the first time in California in a small (non-SWP) county-run reservoir near Hollister, San Benito County, in January, 2008. A plan to eradicate zebra mussels there is being developed by DFG.

The State's mussel control program was discussed May 6 at a Lake Casitas meeting of the SWP Recreational Coordinating Committee. The group brings together recreational area managers from many lakes in California.

DWR and DFG scientists this spring spread the message on invasive mussel control at April conferences of the American Water Works Association in Hollywood and of the American Fisheries Society near Lake Tahoe.

Quagga mussels from Colorado River water have been discovered in several water distribution systems in Southern California, including that of the Metropolitan Water District

Above: Zebra mussels with attached algae on a rock discovered in San Justo Reservoir.

*Below: San Justo Reservoir near Hollister.
Photos by Jeff Janik.*



of Southern California (MWD). SWP water sources are Sierra watersheds, so its main risk of mussel contamination, experts agree, is from trailered recreational boats.

Periodic water quality briefings, including updates on invasive mussel monitoring, are given to SWP Contractors by **Dean Messer**, Ph.D., Chief of the Environmental Assessment Branch in the Division of Operations and Maintenance.

On February 20, DWR conducted a special briefing on the mussel challenge and DWR's response for SWP Contractors in the South Bay region. Contractors represented included the Santa Clara Valley Water District, Alameda County Water District and the Alameda County Flood Control and Conservation District, Zone 7 (known within the water community simply as Zone 7).

Representatives from MWD and the U.S. Bureau of Reclamation were also among the more than 40 attendees. Held at Zone 7 headquarters in Livermore (Alameda County), the session featured a presentation by **Renata Claudi**, an expert on mussels who is a DWR consultant on the mussel challenge to the SWP.

Claudi was a participant in November, 2007 at a DWR-sponsored mussel informational panel presentation at the Fall Conference of the Association of California Water Agencies (ACWA). ACWA represents nearly 450 public agencies which deliver more than 90 percent of California's water supplies.

As of mid-March 2008, DWR had completed nine training courses (five in 2008, four in 2007), educating 77 DWR staffers on how to recognize quagga and zebra mussels and to conduct sampling for them in the SWP. The SWP is the largest State-run water and power system in the United States, providing at least part of the water supply for about two-thirds of California's population.

Sampling for adult mussels is now done routinely at 17 SWP locations. Sampling is being added at several locations for juvenile mussels (veligers), using plankton nets. Samples are analyzed using polymerase chain reactions (PCR) at the Scripps Institute of Oceanography in La Jolla.

Jeff Janik, a leading scientist on DWR's invasive mussel response activities, reported he distributed 3,500 quagga warning cards--intended to alert California boaters to the harmful effects of invasive mussels on boats and aquatic



Above: Boat propeller with mussels attached.

Middle: Zebra mussels on plastic bike grip found in San Justo Reservoir below. Photos by Jeff Janik and Department of Fish and Game staff.

ecosystems--to two water entities in Northern California: 1,000 cards to Alameda County Water District and 2,500 cards and 15 posters to Lake Berryessa.

In media outreach, DWR NEWS/People magazine published an extensive article entitled "DWR Acts to Block Invasion by Troublesome Quagga Mussels" in its Fall 2007 issue, distributed widely throughout the California water community. The article summarized DWR's 2007 activities to thwart the invasive mussels. A similar update on DWR mussel control activities was published in the Spring 2008 issue, with the headline: "DWR Continues SWP Monitoring After Zebra Mussel Discovery."

Online copies of the Fall 2007 article and follow-up interviews were given to key media outlets, including The Associated Press, Los Angeles Times and Sacramento Bee.

During March, DWR received a consultants' report assessing potential impacts of quagga and zebra mussels on facilities of the South Bay Aqueduct.

A top strategy, as implemented by the Interagency Command Structure (ICS) statewide mussel response team led by the Department of Fish and Game, is vigorous outreach to educate boaters on the dangers of invasive mussels and how to prevent their spread via trailered boats. DFG is using special K-9 units to help detect the mussels, using dogs trained to sniff out the invaders.

The Department of Food and Agriculture (DFA) has inspected more than 100,000 boats and trailers entering California since January 2007 at the Border Protection Stations. More than 130 were confirmed as transporting quagga or zebra mussels and required cleaning and decontamination. ■





Flood Management Progress Fits into

SAN JOAQUIN RIVER RESTORATION PROGRAM

By Pete Weisser

Restoration and flood management progress are compatible efforts within the San Joaquin River Restoration Program, according to **Paula Landis**, Chief of DWR's San Joaquin District.

The restoration program won't contribute to existing flooding problems along California's second longest river. Rather, in Landis' view, it will "seek to reduce flood impacts whenever possible by integrating flood control system improvements with channel restoration needs."

The restoration program, outgrowth of an historic agreement settling a lengthy lawsuit over river operation, is designed to revitalize a 150-mile segment of the San Joaquin, from Friant Dam to the river's confluence with the Merced River. It aims to provide fresh, more regular water flows and eventually restore a self-sustaining salmon population to the stressed but valuable river system, a reliable irrigation source for farms.

Interim restoration flows are scheduled to start in 2009 with salmon reintroduced to the San Joaquin starting in 2012, and all river improvements contemplated by the program due for completion by 2025.

"In this post-Katrina mentality, there is a heightened sense of urgency regarding flood control and the State is working with the Restoration Program to assure that we achieve our common goals," Landis told a conference of fish biologists in March.

A Professional Engineer with both flood management and fish project experience, Landis is DWR's top leader on the Restoration Program's management team

Landis stated the San Joaquin has significant existing flood control problems, many reported widely by the news media during 1997 and 2006 flooding. Some reaches have reduced capacity, clogged by vegetation and sedimentation, unstable or porous levees and seepage damage even at non-flood flows.

"Some proposed settlement actions may improve flood protection on the San Joaquin River system, such as channel modifications to ensure conveyance of at least 4,500 cubic feet per second," reported Landis at a Salmon Restoration Conference in Lodi during March.

As part of its overall Levee Evaluation Program, DWR seeks to help local agencies determine the best way to implement and fund needed levee repairs. Program goals are design level protection in rural areas and 200-year protection in urban areas.

"Restoration of the San Joaquin River is a complicated, multifaceted challenge. Coordination and cooperation are essential to successful restoration," concluded Landis. "It can be done." ■

Old Highway 145 Bridge below Friant Dam. A new bridge and road exist immediately upstream of the "broken bridge."

SAN JOAQUIN PROGRAM REPORT NOW ONLINE, FIRST WATER EDUCATION FOUNDATION TOUR SET FOR FALL

By Pete Weisser

San Joaquin River Restoration Program officials and consultants maintained a lively pace of activities this year. Plans call for extensive restoration efforts over an 18-year period along portions of California's second longest river.

Planned with Federal and State fiscal support, the program is designed to provide more regular water flows and reintroduce salmon to the San Joaquin between Friant Dam near Fresno and the San Joaquin's confluence with the Merced River.

DWR is one of five public agencies joining to implement the program. The other agencies are the U.S. Bureau of Reclamation, U.S. Fish and Wildlife Service, National Marine Fisheries Service and California Department of Fish and Game.

Ane Diester, Restoration Administrator for the program since January 2008, in March took a two-day special orientation tour along the 150-mile stretch of the San Joaquin that is the focus of the program. A former water executive with the El Dorado Irrigation District and Metropolitan Water District of Southern California, she acts as an advisor to the Secretary of the Interior.

Diester was selected jointly by the Natural Resources Defense Council and Friant Water Users Authority, key organizations in the historic lawsuit settlement that forms the basis for the restoration program. She took the tour along with **Jason Phillips**, the Program Manager from the Bureau of Reclamation.

The State's fiscal contribution toward the program is expected to be up to \$200 million, including \$100 million specifically designated for restoration activities in Proposition 84, which was passed by the voters in 2006.

Federal support for the program is expected through passage of the San Joaquin River Restoration Settlement Act (House Resolution 4074), carried by **U.S. Rep. Jim Costa**

(D-Fresno). Passed out of the House Committee on Natural Resources in November 2007, at press time the measure was pending 2008 action by the House and Senate.

Collaborative efforts continue toward developing a Temporary Entry Permit (TEP) for private land surveys and investigations associated with the restoration program. Primary concerns expressed by landowners relate to the State and Federal Endangered Species Acts. DWR and the Bureau

of Reclamation teamed with stakeholders, landowners and others to develop the TEP. Anyone wishing more information on the entry permit topic may contact **Craig Moyle**, the program's landowner coordinator at (916) 418-8248 or via email at Craig.Moyle@mwhglobal.com

The program's first annual report, issued in January, is now accessible on the Program Web site at www.restoresjr.net. The 18-page report provides an overview of the program's organizational structure, 2007 achievements and future activities. It also contains a synopsis of the program's four Technical Work Groups (Engineering and Design, Environmental Compliance and Permitting, Water Management, and Fisheries), and a review of public outreach and information activities.

Margaret Gidding of the Bureau of Reclamation is the program's Outreach Coordinator. She may be reached at (916) 978-5104 or via email at mgidding@mp.usbr.gov

Ajay Singh of Kearns and West recently was designated as the program's Stakeholder Coordinator. He can be reached at (916) 446-4359 or via email at: asingh@kearnswest.com

In October, a Final Program Alternatives Report is scheduled for release.

On November 12-13, the Water Education Foundation plans to conduct a two-day, one-night tour exploring challenges associated with restoration of the San Joaquin River, including views of Merced River salmon runs and San Joaquin levees, channels and diversion structures. That tour will begin and end in Fresno. ■





Rules of the Road and Other

BOATING SAFETY TIPS

By Margarita Macias

If your boat is capsizing or being tossed about by strong winds, will you know what to do?

Many DWR employees are better prepared to handle such situations after taking Central District's Boat and Motor Class A course last March.

"This class was created for several reasons. We realized that our boating requirements for the new projects were significantly increasing," said **Bob Nozuka**, Central District Supervising Engineer and boating class coordinator. "This required increased attention to boating safety including situations of possible adverse conditions, such as night, in rain and cold with large ocean-going vessel traffic."



The 22 students, including water resources technicians, scientific aids, engineers, environmental scientists, and an engineering geologist, came from Central and Northern districts to attend the one and a half day training on boats 16 feet and smaller. Of DWR's 47 boats – ranging from the 56-foot San Carlos to a 12-foot aluminum vessel – Central District has eight craft ranging from 28 feet to 12 feet. DWR's boats are needed for aquatic organism surveys, water quality testing, flow measurements, bathymetric measurements, equipment installation and maintenance, habitat surveys, levee inspections, and facilities inspections and tours.

"We also wanted to make sure that staff assigned to this work receive training on trailer techniques and boating procedures to make sure they have the capability to operate safely on the water," said Nozuka. "This training recognized that the Department's expanding programs will require boating activities for new staff and we want all staff to have this training before going out on Department boats."

Above: DWR Retired Water Resources Engineering Associate Rich Pendleton (right) providing Central District Engineering Geologist Tanya Meeth with hands-on boat handling instruction on the Sacramento River, near Discovery Park.

Bottom: Wayne Jensen, a Water Resources Technician II with Central District, evaluates students towing boats.



Left: Bob Nozuka of Central District starts the class by reviewing the agenda for the next two days of boat training. Right: Rich Pendleton, primary instructor for the class, providing insights on proper boat handling techniques. Bottom: Jared Frantzich (right) evaluating Tim Nelson's (left) boat launching and retrieving skills.

In 2005, Central District contracted with the U.S. Coast Guard Auxiliary in Sacramento to conduct a boat safety class for employees from Central District, the Division of Environmental Services, and the Office of Water Use Efficiency and Transfers.

To allow for hands-on training and more detailed training on boating techniques, Central District staff conducted their first Boat and Motor Class A Course (for boats 16 feet and smaller) in March of 2006.

"They've taken this training course a step higher and are also reporting to their supervisors just how well the students did on all areas," said **Alan Ladwig** of DWR's Training Office.

Getting the Facts on Paper

The Boat and Motor course offered every two years is a 12-hour class divided into two sessions – classroom instruction and hands-on training. During the first four hours of the most recent class at Central District's headquarters in Sacramento, DWR Retired Water Resources Engineering Associate **Rich Pendleton** presented instructional materials to the students. Participants reviewed three California Department of Boating and Waterways publications. Other classroom materials, developed by Central District staff,

included the "Boat and Personal Safety Training" manual, "Boat Pre-Operational Check List" sheet, and "Procedure on Hooking Up a Trailer" sheet.

"The class was very informative, and covered a wide range of topics, including proper/safe anchoring technique, and navigation rules, to the effects of hull design on boat maneuverability and stability," said Engineering Geologist **Tanya Meeth**, who has worked more than seven years for DWR. "I found all aspects of the class instructional and relevant. I especially enjoyed the first-hand personal anecdotes that were shared by the instructor which emphasized the importance of personal safety practices and exercising good judgment at all times while on the water."

Subjects covered in the course included personal safety and equipment, boating law and navigation, vessel operation, and accident prevention. For personal safety and equipment, Pendleton discussed the effects of weather on boating and gave instruction on safety equipment, including personal flotation devices, fire extinguishers, and horns.

As part of the boating law and navigation section, Pendleton covered boating light requirements, distress signals, and rules of the river such as speed limits and rights of way.



“The bread and butter of this class is the outdoor training. That’s where the strength of this class lies. Most folks never get to take a formalized training class to learn hands-on boating skills.”

DAVE HUSTON
ENGINEER



Getting Underway

After four hours of classroom instruction, the students went outdoors for hands-on training completed over two days.

“The bread and butter of this class is the outdoor training,” said **Dave Huston**, a Water Resources Engineer who has worked eight years for DWR. “That’s where the strength of this class lies. Most folks never get to take a formalized training class to learn hands-on boating skills. Having Rich Pendleton out there teaching us, with his more than 50 years of boating experience with DWR, gives me a lot of confidence that I’m being taught correctly. Since I’ve been boating on-the-job for several years now, this was a good refresher of some of the typical practical skills one needs.”

At Discovery Park in Sacramento, students along with Pendleton and other DWR staff practiced boating safety procedures.

“Driving one boat is not always like driving another,” said Huston, who spends an average of one to two days a week in the field, often on a boat. “Trailing one boat is also not always like trailing another. I enjoyed the outdoor part of the course very much. It gave me a relative sense of what skill sets I could improve on. I think I’d like to see the next training course extend the length of the outdoor portion to add more time to the actual boat-driving section.”



In addition to Nozuka and Pendleton, DWR employees who assisted with the class included Control System Technician **Rich Mora**, Senior Engineer **Shawn Mayr**, Senior Engineer **Tim Nelson**, Water Resources Technician **Mark Hillis**, Water Resources Technician **Wayne Jensen**, Environmental Scientist **Jared Frantzich**, and Research Analyst **Scott Flory**.

“Based on the Department’s needs through the Training Office, we may be conducting this course later this year,” said Nozuka. “Anyone that operates or rides in State boats should take this course. Even a passenger could be called upon to operate the boat if the boat operator becomes incapacitated.”

For more information about DWR’s Boating Safety course, contact the Training Office at (916) 653-6874. To learn more about Boating Safety, visit the California Department of Boating and Waterways Web site at <http://www.dbw.ca.gov/> ■

Above: DWR Engineer Dave Huston (left) with Bob Nozuka (right) going through the proper trailer hook up and disconnection procedures prior to negotiating the driving course.

Bottom: (left to right) Senior Environmental Scientist Mike Cooney’s boat handling skills are being evaluated by Scott Flory and Jared Frantzich.



DWR Marks Water Awareness Month with Events,

MEMORIES OF DAVID KENNEDY

By Pete Weisser

DWR marked May 2008 as Water Awareness Month with a mixture of water adjustments and policy advice, spring seasonal events and a stirring memorial program at the Association of California Water Agencies’ Spring Conference honoring former DWR Director **David N. Kennedy**.

In a year of multiple water challenges, including a judicially mandated cutback on pumping to safeguard Delta smelt, DWR took part in a variety of events urging the public to “Use Water Wisely.” Though 2008 brought more snow and rain than occurred in 2007, reservoir storage was dropping by May, traditional start of the water recreation season.

Partly due to a Federal court ruling to safeguard Delta smelt, State Water Project allocations are set this year at just 35 percent of contractors’ requests.

These limitations on water use illustrate the need for careful use and ongoing conservation of California’s water resources, a constant theme since Water Awareness Month was created during the 1987-1992 statewide drought.

“Wise water use and vigorous conservation efforts are more vital now than ever,” counseled **DWR Director Lester Snow**. “These trying times clearly require Governor Schwarzenegger’s comprehensive plan to invest in water systems, restore the Delta and ensure clean, safe and reliable water supplies.”



Left to Right: DWR Director Snow joined former Governor Wilson, former DWR Director Gianelli, former U.S. Army Corps of Engineers official Joe Countryman, and former DWR Chief Deputy Director Potter in a tribute to Kennedy on May 8 during the ACWA Spring Conference in Monterey.

Left to Right: DWR’s former Director Gianelli and former Chief Deputy Director Potter speaking during Kennedy’s memorial.

Kennedy Memorial Ceremony

A water industry farewell tribute to David N. Kennedy, DWR Director from 1983 to 1998, was the emotional highlight of this Water Awareness Month. Kennedy, who died in December 2007 at age 71, ranked as California's longest serving DWR Director.

At its Spring Conference, the Association of California Water Agencies (ACWA) paid tribute on May 8 to Kennedy as a respected, highly ethical water statesman. Kennedy led DWR through the 1987-1992 drought and several huge floods, in 1986, 1997 and 1998. Kennedy added key infrastructure, worth about \$1.5 billion, to California's State Water Project, including four new pumps in the Delta and a Coastal Branch Aqueduct.

A DWR biographical video presented Kennedy commenting on the major issues and challenges of his career, including his championship of the Peripheral Canal while a top leader at the Metropolitan Water District of Southern California. He took pride in achieving a closer water supply partnership with



the U.S. Bureau of Reclamation, beefing up DWR's flood program, enhancing relations with SWP contractors and seeking to revitalize Delta ecosystems and fisheries.

Kennedy was proud of his affiliation with ACWA, an organization of nearly 450 public agencies that collectively deliver more than 90 percent of California's water.

ACWA invited four distinguished public servants who worked closely with Director Kennedy to give personal tributes: **William R. Gianelli**, DWR Director from 1967-1973, who met Kennedy as a junior staff engineer at DWR in the 1960s; **Joe Countryman**, flood consultant and former U.S. Army Corps of Engineers official; **Bob Potter**, who served as Kennedy's Chief Deputy Director; and former **Governor Pete Wilson**, whom Kennedy served after being DWR Director for Wilson's predecessor, **George Deukmejian**, for his eight years in office.

To view the DVD of former DWR Director Kennedy being honored at the ACWA Conference, visit <http://www.water.ca.gov/newsroom/video/videoarchive.cfm>

Mrs. Kennedy's Message

Barbara Kennedy, who married Dave in 1959 after the two had met as students at the University of California, Berkeley, provided a graceful thank-you message on behalf of herself and family. Her recording and Director Kennedy's memorial DVD are available in DWR Archived News (May 8, 2008 posted) at <http://www.water.ca.gov/news/>

As David's wife, I appreciate this opportunity to thank those of you in California's unique and complex water world for the many kind ways in which you have been remembering David.

It was an unexpected turn of events for him to become Director of Water Resources, particularly when the voters had just soundly defeated the Peripheral Canal, a project David believed in and had supported vigorously on behalf of Metropolitan Water District. However, in spite of that, Governor Deukmejian did

appoint him, the Legislature confirmed him, giving him the honor and great privilege to serve California as Director of DWR and then again, under Governor Wilson.

David would relate to me, in delightful detail, events that took place during the span of his career. Listening to these vignettes, it was apparent that he greatly enjoyed interacting with you.

Our family knew David as a caring family man, someone with wide interests, curious about how things work, and who loved to help friends and neighbors. Your tangible remembrances of him have served to let his family know that qualities he expressed were appreciated in the workplace as well as in his home.

I would like to leave with you this thought to remember — that David truly enjoyed time spent working with you toward the common goal of resolving California's many-faceted water problems and I know would wish you well as you continue in that endeavor. ■



THE OFFICE OF THE CHIEF COUNSEL

Takes a New Approach

By Margarita Macias

DWR's Office of the Chief Counsel has taken a new approach toward expanding the expertise of its 31 attorneys and other staff members along with meeting DWR's increasing needs for service. With guest speakers, training classes, and monthly meetings, OCC employees are gaining a broader base of knowledge about DWR and its projects.

"If we were a law firm, we would be considered one of the top governmental law firms in the State because of the scope of our expertise and variety of backgrounds in our office," said Chief Counsel **David Sandino**. "DWR's 30-plus attorneys come from a variety of backgrounds, such as private practice, public interest and other State agencies."

The Office of the Chief Counsel (OCC) has its biggest staff since the 1960's when the State Water Project was being constructed. The staff works to keep pace with increasing demands in the areas of flood management, water supply, Delta sustainability, environmental compliance, and energy programs. With succession planning being one of DWR's recent priorities, the OCC has focused on training new people to lead the legal office in the future.

By retaining several of DWR's retired attorneys, including former Chief Counsel **Bob James**, former Assistant Chief Counsel **Steve Cohen**, construction law specialist **Jim O'Brien**, water contract expert **Norm Hill**, and TROA expert **John Kramer**, the OCC has been able to maintain a wealth of knowledge and provide mentoring to new attorneys.

"As part of succession planning, it is so critical that knowledge transfer continues to occur," said **Neil Gould**, Assistant Chief Counsel. "Although we've been fortunate to retain many as retired annuitants, we have also lost incredible brain power through retirements."



Above: Office of Chief Counsel team.

Below: Chief Counsel David Sandino makes presentation to OCC staff on current DWR issues.

Expanding Horizons

David Sandino, Chief Counsel since April of 2006, has always had a love for education. A practicing attorney for 24 years, he has taught water and energy law in California and Russia. Through his leadership in providing OCC training and other educational opportunities, Sandino is devoted to expanding the horizons of his staff.

"David has a wonderful sense of humor. It's all done with the approach of let's have a good time while working," said Gould, who has worked in DWR's Legal Office since 1987. "The focus of providing these programs ourselves is a new approach in our office."

Each month, OCC employees attend monthly meetings with guest speakers to help keep up-to-speed on DWR's diverse activities. **Richard Sanchez** has briefed staff on the Division of Engineering, **John Andrews** on climate change, **Aileen Tokunaga** on workforce equality, **Francis Chung** on Delta Conveyance, **Gary Bardini** on proposed Hetch Hetchy restoration, **Kamyar Guivetchi** on the California Water Plan Update, **Dale Hoffman-Floerke** on the Salton Sea, and **Art Winslow** on DWR's History. **Ann Malcolm**, Chief Counsel of the Department of Fish and Game, shared information about DFG's legal activities at an OCC staff meeting.

"During our monthly staff meetings, we also update all staff about DWR's significant projects and programs," said Sandino. "This allows an attorney specializing in employment law, for example, to understand what is going on from a wider perspective and provide input about the department's direction regarding water and environmental issues."



Legal Team Building

OCC staff members also meet frequently during the lunch hour to learn and exchange information on various issues.

"Everyone is really, really busy and the tendency is to go into our offices and close the door, but if you have these opportunities then you can take advantage of them," said **Linda Ackley**, Staff Counsel IV. "Even new people with fresh eyes have something to contribute. It provides a supportive environment that promotes collaboration and helps us all to learn from each other."

The OCC has an annual offsite meeting, which this year will be devoted to legal ethics and improving the office culture.

"Educating staff on overall issues allows attorneys to work independently, but feel part of the team," said Sandino. "This applies to support staff, too. Our paralegals and office assistants are top-notch and essential to delivering the high quality service that OCC provides."

Despite a busy schedule, OCC still makes time for office picnics and golf tournaments, potlucks and holiday parties.

"We try to create a culture that people want to come to work, make a difference, and have a little fun doing it," said Sandino.



Above: Robin Brewer and Eric Soderlund are among the OCC's newest attorneys.

Below: (left to right) OCC Attorneys Jeannie Lee, Linda Ackley, and Neil Gould collaborate on a groundwater issue.

“DWR’s attorneys work with DWR scientists and engineers to inform the courts about SWP operations and potential effects on endangered fish.”

CATHY CROTHERS, ASSISTANT CHIEF COUNSEL



Covering DWR’s Needs

Sandino, who has worked on environmental, water, natural resources, land use, and energy issues, reorganized the OCC with three Assistant Chief Counsels instead of the previous two.

Under the supervision of **Cathy Crothers**, **Neil Gould**, **Ward Tabor**, and **Peggy Bernardy**, the OCC is now divided into four main sections. Crothers’ section covers environmental quality, water rights, water contracts, local project financing, future water supplies, watermaster, water conservation, California Water Commission, and SWP energy. Gould and his staff’s assignments include contracts, construction, personnel, employee relations, SWP bond financing, public records, and conflict of interest. Tabor’s team reviews the areas of flood management, flood safety, Central Valley Flood Protection Board, right of way, and dam safety. Bernardy and her staff handle issues related to the California Energy Resources Scheduling Division (CERS).

“In each of these efforts, we look for the legal framework, apply the facts, identify the options, including anticipated pitfalls, and recommend a course of action,” said Ackley. “We always work as a team with DWR program staff.”

Hot Legal Issues

In 2001, the OCC’S focus was on DWR’s new role in energy with the creation of CERS. In 2008, big jobs for the OCC include providing legal support for the ongoing crisis in the Delta and DWR’s increased activity in flood protection.

“In the late 1990’s, there were two attorneys working on flood management and Reclamation Board issues,” said Gould. “In the early 2000’s, the Paterno case, DWR’s Flood White Paper, Hurricane Katrina, and the Jones Tract flood led to an increase in flood management funding. As DWR’s focus on flood control expanded, we did too. We now have six attorneys working on flood management.”

At the same time, there has been an explosion of the OCC’s workload related to the decline of native Delta species. DWR attorneys, supporting the Attorney General’s Office, have been on the frontlines of the latest courtroom battles that led to unprecedented pumping restrictions to protect Delta fish.

“DWR’s attorneys work with DWR scientists and engineers to inform the courts about SWP operations and potential effects on endangered fish. As a team, DWR program staff and attorneys develop information for State and federal agencies with responsibility for protecting these fish so biological opinions can be developed to authorize the take of the fish under the endangered species laws,” said **Cathy Crothers**, Assistant Chief Counsel. “DWR’s team of attorneys, scientists and engineers educate each other on their areas of expertise to provide an accurate and defensible project description, which is critical because of the potential for fish protective measures in biological opinions to affect water supply.”

The OCC’s environmental lawyers have their hands full with work outside of the Delta, as well. “The San Joaquin River restoration program, the Salton Sea restoration program, and

Staff Counsel IV David Anderson and Senior Legal Typist Michelle Acosta.





the Truckee River Operating Agreement are just a few examples of the huge multi-agency efforts that DWR and the OCC are engaged in, along with the expansion of the grant and loan programs," said Ackley. "We've inherited many more functions. With several large Environmental Impact Reports (EIRs) in progress and related litigation, the Delta ecosystem decline and other challenges, the environmental workload in the office has tripled over the past few years. "

According to Sandino, DWR is currently involved in the preparation of the largest number of EIRs since DWR's creation. These include those for the Oroville Facilities FERC Relicensing, the Monterey Agreement, San Clemente Dam Seismic Safety, Truckee River Operating Agreement, Salton Sea ecosystem restoration, Bay-Delta Conservation Plan, San Joaquin River Restoration, and the Environmental Water Account.

Addressing environmental issues related to climate change poses a new challenge for lawyers. In contrast to contract law, where the legal framework is well established through, for example, court decisions and the Public Contract Code, the laws and regulations related to climate change are rapidly evolving in the Legislature, the courts and in various State agency processes.

"Because the law related to climate change is so new, it's a very exciting area for lawyers," said Gould. "As the scientists are coming out with reports on what they think, at the same time, the courts are coming out with what you need to address."

As the OCC continues to cover DWR's expanding program needs, technology has also expanded the OCC's method of communicating. Prior to the 1990's, DWR's attorneys had no personal computers and no paralegal staff. Today, in addition to having two paralegals to assist with research, attorneys can communicate via Web cast and emails.

"Unlike many other State legal offices, we also have our own law library and law librarian, which makes us unique," said Gould. "If one of our programs needs a quick answer, it can be more efficient for me to ask our law librarian, who has the expertise in legal resources, to research the answer for me."

"There is never a dull moment here. Certainly not in the last decade," said Gould. "Just look at the news headlines every day. The Delta, water supply, flood, and climate are compelling issues for California's future." ■

Top to Bottom photos: The OCC team also includes Attorney Bill Cady, who advises on DWR contract documents; Executive Assistant Melinda Woods and Staff Services Analyst Ilona Millhone; Office Assistant Regena Ivory, who works at the OCC's front desk; Retired Assistant Chief Counsel Steve Cohen.

LEARNING ABOUT DWR'S HISTORY

In February, DWR retired annuitant **Art Winslow** made a presentation at the OCC monthly staff meeting. Winslow, who has 60 years of expertise in the water field, focused on the earlier days of DWR.

"What was the Department like in 1947?" asked Winslow, who works for DWR on special projects, including the Department's Oral History program. "First of all, there were no women engineers or attorneys. We only had two attorneys."

The first attorneys were **Spencer Burroughs** from 1922 to 1948 and **Henry Holsinger** from 1956 to 1957.

There were 180 people in the Department and about 30 people were watermasters who resided in the mountains during the summer. There were 18 stenographers and typists at the office located at 1020 N Street.

Ed Hyatt had been State Engineer since 1927.

"Because we had two significant droughts in 1924 and 1929, Ed Hyatt started the State Water Plan, which is now known as the Central Valley Project," said Winslow.

A.D. Edmonston succeeded Hyatt as State Engineer.

"As part of the DWR's Oral History recordings, I interviewed Edmonston's son Bob Edmonston, and asked him to speak about his dad. I got on tape all of the machinations that went on in the development and planning of the Feather River Project, which is now called the State Water Project," said Winslow. "It was Edmonston's dream to build the Feather River Project that would serve the parts of California that were not served by the Central Valley Project."

Winslow also spoke about passage of the \$1.75 billion State Water Project bond, water rights, and flood control in earlier days.

"During the Feather River study, I measured the diversions out of the river along with river flows over a three-year period," Winslow said. "After 10 years, I moved into groundwater studies. Then, I worked on collecting a variety of hydrologic



data. I studied Delta Levees. I later joined the Program Analysis and Control Office, where we were kind of like (then-DWR Director) **Ron Robie's** watch people. It took me about 25 years to develop a whole group of friends in the Department and two weeks to loose them all. This was not one of my career highlights."

Winslow later became Executive Assistant to Chief Deputy Director **Bob Potter** and Director **David Kennedy**. In 1991, the Drought Water Bank was started.

"Based on the study that we had already done, we knew how much water each crop in the Delta could use. We were able to go to farmers in the Delta and pay them for the water that they did not use. We generated 900,000 acre-feet of water from the water bank," said Winslow.

On the Sacramento River in Bryte, DWR had a floating hotel that was used during flood emergencies to house flood response workers. DWR also had two snow surveyors who measured water quantity and published water condition reports on the 10th of each month of January, February, March and April.

"With the passage of Proposition 1 in 1960, DWR expanded from 180 people in 1947 to almost 6000 employees," said Winslow. "A.D. Edmonston, who had been injured in a lumber accident and walked with a limp, walked the entire route of the California Aqueduct."

DWR sent teams of employees to universities throughout the State to recruit engineers for the construction of the State Water Project.

Winslow's presentation ended with a brief summary of his later years with DWR.

"I came to DWR at the end of 1990 and worked with Art on the 1990 and 1991 Drought Water Banks, and the wisdom and experience he brought to the program then and overall to the department now still amazes me," said Ackley. "Art worked his way up through the ranks of DWR, after starting out in the field reading measuring gauges. He has taught me so much." ■



Above: Retired Annuitant Art Winslow holds photo of first DWR attorney as OCC staff listen to his presentation on DWR's history (bottom photo).

Desert Water Agency

By Amy Norris

Desert Water Agency located in Palm Springs continues to embark on innovative programs to encourage conservation and improve efficiency and reliability in its water delivery system. General Manager Dave Luker believes in leading by example. During his tenure, Desert Water Agency (DWA) has a track record of taking bold steps that inspire its customers to follow.

From solar power to reclamation to conservation outreach, the agency has done everything possible to maximize its resources, and with good reason. The desert climate stimulates high water consumption but receives minimal precipitation. Though a State Water Project Contractor since 1961, the State Water Project stops short of the DWA boundaries: 325 square miles encompassing Palm Springs, Cathedral City, Desert Hot Springs, and outlying county areas. DWA exchanges its SWP allocation for deliveries of Colorado River water from the Metropolitan Water District of Southern California, recharging the groundwater basin on which the arid desert region relies for most of its water.

Dave Luker, General Manager and Chief Engineer (right) and Mike Bergan, Facilities and Safety Officer stand with a portion of the DWA's 2007 landscape conversion in the background.

The agency's venture into solar power is a perfect example of how DWA is capable of moving quickly to make great changes. Three years ago, DWA's Southern California Edison representative brought a self-generation incentive program to Luker's attention. Recognizing a great opportunity, Luker applied for and won a \$1.2 million dollar grant to install solar panels. He presented the project before his board of directors, and they agreed it made sense. Luker explained, "Tom Kieley, the Board President said, 'You didn't give us any choice. You came to us with 1.2 million dollars and all we have to do is come up with the other half. The answer's yes. Let's go for it.'"

Though there aren't many water agencies using solar power yet, DWA now uses it to run its operations center. Just behind the main headquarters, a 355 kilowatt ground-mounted fixed tilt system about the size of a football field catches the desert sun. "I'm very proud of our ability to use electricity as efficiently as we do. We've lowered our operating costs by 100,000 dollars per year," said Luker.

Brand new desert landscaping also surrounds the headquarters. In 2007, the agency switched its grounds from grass to native plants in preparation for DWA's "Go Native" conservation awareness plan. Though its previous landscaping



"I'm very proud of our ability to use electricity as efficiently as we do. We've lowered our operating costs by 100,000 dollars per year."

DAVE LUKER
DESERT WATER AGENCY
GENERAL MANAGER

was using recycled water for its upkeep, Luker recognized his customers would respond better to the campaign if DWA also made a switch. "We had to get our house in order to have credibility. We revamped our landscaping. Now we can go out and say this is an example of what you can do with commercial property," said Luker.

Besides encouraging its customers to use desert landscaping, and conserve as much as possible indoors, DWA is also giving a free irrigation controller to newly built homes. They also sell them at cost to existing customers who want to use them. According to a DWA press release, "every controller contains the historical evapotranspiration information for different regions. Each will be set to capture the desert's data for temperature, humidity, wind and sunlight. Instead of the home-owner or landscaper having to adjust the water times as the weather changes, the 'Aqua Conserve' Controller will adjust itself."

DWA also saves water through reclamation. The agency provides tertiary treatment to recycled water that irrigates the city's golf courses, the local high school grounds and roadway median strips. Said Luker, "We spend a lot of money on reclamation to conserve the resource. It conserves power, water and also quality." DWA's plant treats up to 10 million gallons of recycled water per day. During hot summer months, all of the recycled water is used and additional irrigation comes from groundwater.

DWA's recycling program provides irrigation water to golf courses, parks, Palm Springs High School and even roadway medians. Wastewater first goes to the City of Palm Springs' wastewater treatment plant where it is initially treated, then DWA's recycling facility (right) treats the water twice more before it is ready for irrigation use.

Luker's next big dream is to extend the State Water Project's East Branch Aqueduct, enabling his agency to receive its SWP deliveries directly. He considers the Aqueduct expansion a project that truly reflects regional management.

"To extend the East Branch would give us more reliability. Currently, we have Desert, Coachella, Metropolitan Water District, San Geronio Pass Water Agency, and we've invited Mojave Water Agency. It will improve water supply reliability for all of those contractors, should we build it. It would be the first time the State project was connected to the Colorado River Aqueduct or had the ability to use both. If there's something wrong east of here, supplies could still be delivered," said Luker.

A number of investigations have been conducted since the 1960's, but the latest study is the most serious one, looking at feasibility, impediments, and costs.





Top: DWA's headquarters office's new landscape was completed in September 2007 and includes areas of synthetic turf, which provides customers with an alternative to using real grass.

Middle: DWA Engineering/Operations Department monitors the distribution, waste water, reclamation and hydro-plant Scada System from the agency's Operation Center.

Bottom: Desert Water Agency constantly monitors the water supply in its laboratories. In 2007, DWA conducted more than 5,200 tests on the water supply.

Though the DWA groundwater basin is in good shape with no evidence of subsidence in its service area, another direct water source just makes sense. Luker explained, "If you don't have a delivery mechanism, you might miss water that is otherwise available."

In fact, without the SWP supplies, Palm Springs area would not enjoy the highly profitable tourism it does today. Luker phrased it this way, "I'm very comfortable saying, without the Colorado River supplies and the State Water Project, Palm Canyon Drive wouldn't exist. There would be no Country Club Drive. There would be no El Paseo, forget it. Those areas never would have been developed without imported water. It's been a staple of our community forever."

Currently, DWA is eligible to receive 50,000 acre-feet of water per year from the State Water Project. In 2010, it will go up to over 55,000 acre feet. In the near future, Luker expects the entire Coachella Valley, combining the DWA and Coachella Valley Water District maximum allocations (or max Table A), to be about 200,000 acre feet per year.

Luker is also in favor of another canal project. Though the Wanger decision that currently restricts pumping through the Delta has reduced his agency's supply of SWP water in the short term, Luker sees the glass half full. "The Wanger decision in many ways is a blessing because it finally focuses a lot of attention on something we should have done many, many years ago. To me it's an opportunity to finally see, maybe in my lifetime, the State project get finished with some of the very important plumbing that has been missing."

It is evident that Luker loves the water business and finds it rewarding on many levels. "If you're a guy who likes nuts and bolts and engineering things, the water business has it all: mechanical systems, pumps, motors, electrical systems, concrete, steel structures and hydraulics. It's all those things that give you goose bumps when you're a guy like me. It's also very rewarding to have a large group of people focused on doing a good job for our customers, and we've been successful. I've never been happier than running the DWA."

Dave Luker officially assumed the role of Desert Water Agency's General Manager-Chief Engineer as of October 1, 2004, having served as the Agency's Assistant General Manager since 1996. He is the Agency's 4th general manager since it was formed in 1961. Previous positions include 13 years with Krieger & Stewart, where he served as Vice-President. Luker is a registered California civil engineer, a registered professional engineer in Oklahoma, and a licensed California land surveyor. ■

Helping a Child

For the past seven years, employees in the Division of Fiscal Services have purchased Christmas gifts and DVD players, gathered blankets, reams of paper, and books to donate to children in the Sacramento area. In June, they donated 70 books in Spanish and English to the Shriners Hospitals for Children of Northern California.

“We started back in 2001 by selecting names of children who were staying at the Sacramento Children’s Receiving Home by fulfilling their Christmas list wishes,” said Division of Fiscal Services **Chief Perla Netto-Brown**. “Almost everyone in the Division participated and giving has since become a tradition. The Fiscal employees are all very generous and find great satisfaction in helping others.”

At least twice a year, Fiscal Services employees have made donations to a non-profit organization. Donations have included

10 DVD players and 98 blankets to the Sacramento Children’s Home and nine cases of paper to the Mustard Seed School in Sacramento.

“I heard Shriners’ is always in need of books and it was an easy, low-cost item for people to be able to give to help children in need,” said **Kimberly Deane**, Administrative Officer of the Division of Fiscal Services.

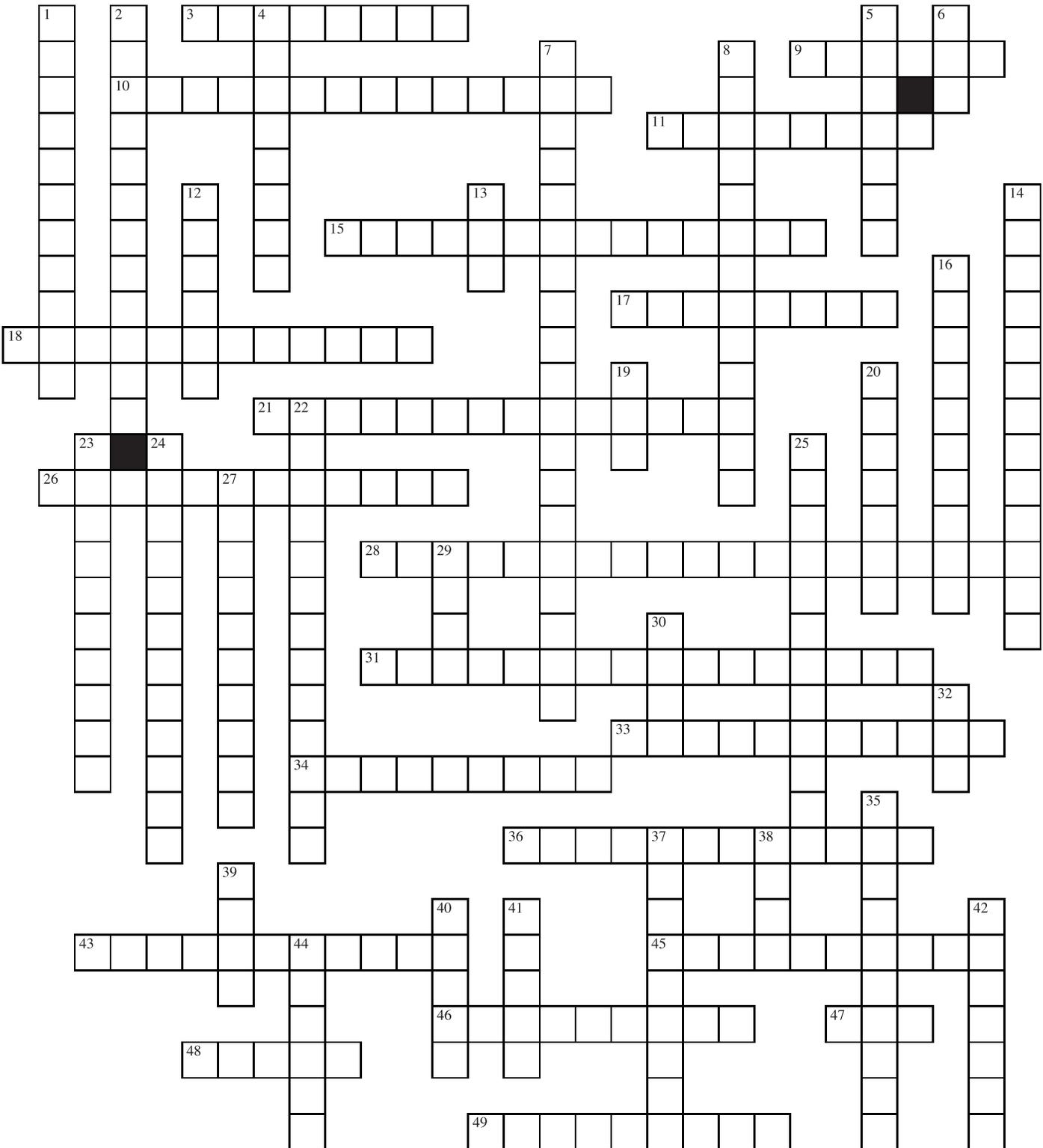
Donations to Shriners Hospitals for Children helps the organization provide specialized pediatric care at no charge, conduct research and provide teaching programs for physicians and other health care professionals.

“Our Division has always had a lot of people with big hearts,” said Kimberly. “Children in need always tug at the heartstrings so it’s always easier to donate to them. Without their kind hearts, these children would go without.” ■



Fiscal Services staff holds 70 books to be donated to the Shriners Hospitals for Children of Northern California.

Crossword Puzzle for Water Words



* Questions on page 33

* Answers on page 38

Crossword Questions

ACROSS

- 3 Main pipeline between water source and turbine
- 9 Governor who dedicated Oroville Dam
- 10 SWP visionary
- 11 South Bay Aqueduct lake
- 15 Initial SWP funding
- 17 SWP lake in Plumas National Forest
- 18 Delta Fish Facility
- 21 CA Aqueduct named after him
- 26 Main SWP reservoir
- 28 Aqueduct to Cherry Valley
- 31 DWR Director who was Asst Army Secy
- 33 Southern Field Division Headquarters
- 34 Oroville Dam type
- 36 DWR Director now Appellate Court Judge
- 43 Oroville Facilities location
- 45 Castaic Lake forebay
- 46 "Big Lift" mountain range
- 47 2nd Palmdale water contractor
- 48 Dirt removed from reservoir
- 49 First pumping plant of Coastal Branch
- 5 Reservoir shared with the CVP
- 6 It can be an arch
- 7 Banks PP water source
- 8 Second DWR Director
- 12 San Luis Dam
- 13 Pumping plant near Gorman
- 14 Aqueduct to San Luis Obispo
- 16 Southernmost SWP reservoir
- 19 Largest SWP contractor
- 20 SWP reservoir with 5 dams
- 22 Longest serving DWR Director
- 23 Coastal Branch pumping plant
- 24 SWP Watershed
- 25 Largest SWP visitors center
- 27 Reservoir spillway flow control device
- 29 Spillway overflow line
- 30 Double curve spillway
- 32 Where SWP dispatchers work
- 35 Tehachapi East Afterbay
- 37 Pauline's Puddle
- 38 Swift water current
- 39 Palmdale-based water contractor
- 40 Largest powerplant
- 41 Number of SWP hydro-electric power plants
- 42 Lake named after a rock
- 44 Popular windsurfing forebay

DOWN

- 1 "Big Lift" pumping plant
- 2 First DWR Director
- 4 Aqueduct to Napa/Solano

DWR's Lake Davis Restocked with Trophy Trout

Thousands of rainbow trout as large as 13 pounds were transplanted into Lake Davis, near Portola, on May 16 and 17, 2008, as part of an effort to return it to a world class fishery.

The restocking totaled 11 tons of Eagle Lake rainbows as the Department of Fish and Game (DFG) strives to resurrect the lake for trout anglers. The fishery was decimated by the illegal introduction of predatory northern pike, first discovered in the Plumas County reservoir in 1994.

Lake Davis is one of the State Water Project's northernmost reservoirs. DFG conducted a pike eradication effort at the lake in September, 2007, which is believed to have killed all aquatic life.

The local economy has suffered over the years as authorities struggled to eradicate the voracious pike. A 1997 eradication effort failed to eliminate the unwanted visitor. Likewise hooks, nets, traps, electrical shocks, and explosives.

Now it appears the pike are gone, much to the relief of SWP officials who feared the fish would migrate to Lake Oroville. From there, the pike could have made their way into the Sacramento-San Joaquin Delta, devastating the state's commercial and sport fisheries. ■



During the Lake Davis Trout Restocking Celebration on May 17, a Department of Fish and Game truck releases rainbow trout into Lake Davis as media photographers and area residents witness the event.

An Eagle Lake rainbow, one of the thousands being used to restock Lake Davis.

New Assignment

Libonati Appointed Deputy Director for Business Operations



Jim Libonati brings 35 years of State government experience to his new job as Deputy Director for Business Operations. His solid resume includes DWR experience dating back to 1975, when disco was king and bow-tied Ronald Robie, a legislative water law expert, was DWR Director.

Fresh from a two-year stint with the State Personnel Board, Libonati began his DWR career in the Personnel Office. Gaining insight into DWR's high-performance business excellence, he earned promotion to become DWR's Personnel Officer.

"DWR has always had a sense of professionalism, mission and teamwork," said Libonati. "It was true then and it's true today."

Taking a promotional opportunity, Jim moved in 1985 from DWR to the California Department of Corrections. There he served as Human Resources Chief for 13 years. "It was a peak era of prison expansion," Libonati recalled. "When I arrived at Corrections, we had 11 prisons and a staff of 15,000. By the time I left, we had 33 prisons and 45,000 employees."

Expansion of staff, prisons and inmate populations confronted him with many challenges. "When I left Corrections, with all its pressures and challenges," recalled Libonati, "I felt there was no problem I couldn't solve."

He spent a year at the Franchise Tax Board as its Personnel Director. Then, in 2001, he returned to DWR as Chief of the Division of Management Services.

Today, Libonati oversees DWR's business operations functions, directing a staff of about 400 employees in several support divisions. His administrative priorities include strengthening and modernizing DWR's information technology, improving budget capabilities of SAP and preparing for the future.

"We've got a talented, dedicated staff and a department tradition of business excellence," he said.

Libonati brings to his administrative duties insights and skills honed in a 34-year second career as a reserve Sacramento County deputy sheriff. He enjoys being a uniformed peace officer, working weekends part-time on a variety of law enforcement assignments, including street patrol and airport security. Starting in 1974, Jim's worked as a Deputy under every Sacramento County Sheriff since Duane Lowe.

A 1966 graduate of Sacramento High School, Libonati earned a Bachelor of Science degree in Business Administration and a Bachelor of Arts degree in Government at California State University, Sacramento (CSUS). He also earned a Masters degree in Business Administration at CSUS.

Married in 1973, Jim and his wife have two children, a daughter, who works at the University of California, Davis, and a son, just completing academic work for a career in nursing and health care. ■

Graphic Designer Receives Nationwide Recognition

The California Utilities Emergency Association (CUEA) has an exciting new logo thanks to DWR Graphics Designer Mike Miller of the Public Affairs Office.

In recognition of his creative work, CUEA presented Miller with its Award of Recognition during a ceremony in May.

"The award was definitely a surprise," said Miller. "It feels good to know that this logo received scrutiny, then acceptance from top corporate executives."

As stated on its Web site, CUEA offers communication and coordination structure as well as emergency operations support to public and private utilities as well as government agencies, including the Department of Water Resources.

While developing the logo, Miller worked closely with **Sonny Fong**, DWR Emergency Preparedness and Security Manager (and sitting member of the CUEA Board of Directors), and CUEA Executive Director **Don Boland**.

"Sonny and Don wanted a logo that represented the association's proactive responses to emergencies; one that was less literal and more stylized; and a logo that might even become branded from state to state," he said.

Miller began creating the logo by drawing sketches using shapes that showed movement and conveyed a sense of vibrancy.

Several designs were presented to the CUEA board, which included top executives from AT&T, PG&E, and Metropolitan Water District of Southern California. Miller said after a few design revisions, a decision was made on the logo.

"Once the final design was chosen I created templates for a business card, stationery, envelopes and a print ad, as well as possible uses as a media backdrop at press events," said Miller. "The logo and all the collateral files were burned to a CD and delivered to CUEA."

New Assignment

Qualley Appointed Chief of Flood Management



With 15 years of flood management experience to draw upon, **George Qualley** was appointed in March 2008 to begin a second “tour” as Chief of Flood Management.

“These are exciting times to be back at the helm of DFM, with unprecedented

amounts of bond funding available to greatly improve flood risk management systems in California for the benefit of future generations,” said Qualley.

In his new assignment, Qualley is responsible for a staff of more than 300 that carries out the state’s Flood Management Program, including flood and water supply forecasting; flood emergency operations; maintenance, inspection and repair of flood control projects; and balancing development of new projects with non-structural approaches to flood risk reduction.

Qualley’s knowledge of statewide flood issues, management of multi-disciplinary staff, and cooperative efforts with key stakeholders will be beneficial in providing leadership to the Division of Flood Management in accomplishing its ongoing core public safety functions, and in collaborating

with the FloodSAFE executive team as DWR moves forward in developing the program delivery system for FloodSAFE California and Integrated Regional Water Management.

Over the past 32 years, George has worked for the Division of Flood Management, State Water Project Power and Risk Office, State Water Project Analysis Office, Division of Operations and Maintenance, and the State Water Resources Control Board. Qualley’s “pre-flood” assignments have included annual inspections of State Water Project civil works facilities; water rights analysis; SWP water contract administration; long-range SWP operations studies; and SWP power portfolio development and electrical transmission alternatives analysis.

Qualley earned a Bachelor of Science degree in Civil Engineering from North Dakota State University in November 1969, and immediately headed west to begin his State career in December 1969 as a Junior Civil Engineer with the Division of Highways (forerunner of Caltrans) where he worked on designing freeways and bridges. Caught up in Caltrans’ statewide layoffs in 1975, he redirected his career to water—beginning his DWR career with Operations and Maintenance’s Program Evaluation and Control Office. Fast forward to 2008. George is anxious to take on the new challenges of what he considers to be the “best job in State service.” ■



Mike has previously been recognized for his work at DWR. In 2007, he was the lead designer for the California State

Fair Climate Change exhibit that won the Gold Medal for exhibits at last year’s National Association of Government Communicators. He also won a Gold Award from the State Information Officers’ Council for his design of the California Department of Forestry and Fire Protection’s 50th Anniversary poster.

Mike, who has been in State service since 1987 (17 years with DWR) is currently the lead designer for the 2008 California State Fair exhibit on the Delta. ■



Graphic Designer Mike Miller (center) standing next to Sonny Fong (right), DWR employee and sitting member of the CUEA Board of Directors, and Don Boland, Executive Director of The California Utilities Emergency Association, holds CUEA award in recognition of his time and effort in establishing CUEA’s 21st Century Identity.

Helping One Pint at a Time

At DWR, they are known as Tour Guide **Howard Berman**, System Software Specialist **Frank Farmer**, and District Chief **Glen Pearson**. To blood drive recipients, they are life savers.

"Giving blood is one of the most charitable acts of kindness that someone can do for another person," said **Lynne Bitnoff**, DWR's Blood Drive Coordinator. "I feel great joy to have this chance and opportunity to coordinate acts of human compassion at DWR Blood Drives in Sacramento."

Since DWR's first Sacramento Blood Drive in October 16, 1984, DWR has donated 4,502 pints of blood during 81 DWR Blood Drive events in downtown Sacramento. During 2006, 346 pints of blood were collected at the six DWR/Matt Sugarman Memorial Blood Drives. In 2007, 367 pints of blood were collected.

At the Joint Operations Center in Sacramento, DWR has also coordinated blood drives collecting more than 40 pints each year since 2006.

"From the 40 pints collected at JOC Blood Drives in 2007, 120 people have benefited," said Bitnoff.

To donate blood, a person must be in good health and pass a brief physical examination.

"Aspirin cannot be taken within a brief period prior to donating," said Farmer, a System Software Specialist II with the Division of Technology Services who has worked 26 years for DWR. "It is important to have a good night's sleep ahead of time, and to have a good meal and plenty of fluids."

During your appointment, a phlebotomist collects about one pint of blood, which takes five to seven minutes. Then, it is recommended that donors replenish their fluids by resting 10-15 minutes and enjoying complimentary juice and snacks.

"The cookies are a good reason to donate blood," said Berman. "While I am eating

San Luis Field Division Tour Guide II Howard Berman donates blood regularly in Los Banos.

cookies and drinking apple juice or water, I have the opportunity to talk with fellow blood donors, comparing my blood pressure and hemoglobin with theirs and talking about the latest gossip in Los Banos."

Berman, Historical Tour Guide II at Romero Visitors Center overlooking San Luis Reservoir, has donated blood since 1976, which is almost as long as he has worked for DWR. Howard, who joined DWR in 1974, has donated more than 12 gallons of blood to the Central California Blood Center in Los Banos.

"I would encourage anyone that can to donate," said Berman. "Every now and then, I will receive a thank you letter from the family of the person I donated blood to and that gives me more reason to donate blood."

Berman's former supervisor, who was a volunteer with the Central California Blood Center, motivated Berman into becoming a blood donor.

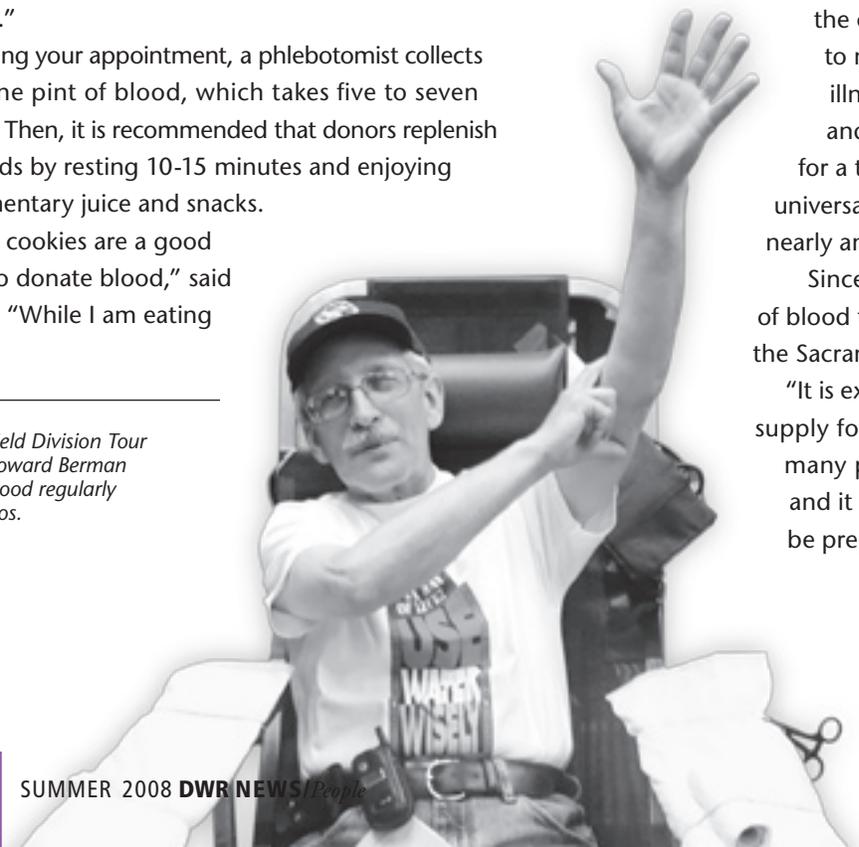
"I did not think I would be donating more than 30 years," said Berman. "I thought I would do it once and then stop."

Like Berman's DWR assignment of giving tours and information on the State Water Project and the Central Valley Project, donating blood has also given him another opportunity to meet new people and learn more about the Los Banos community.

"I was inspired by seeing co-workers including **Roger Linder**, also of DTS, who is a long-time donor. What ultimately persuaded me back in 1991 was the opportunity to make a direct donation to my father, who was affected by terminal illness," said Farmer. "He was very anemic and the blood donation really helped him for a time. I also found that I have one of the universal blood types, which can be used by nearly anyone."

Since 1991, Farmer has donated six gallons of blood to the Blood Source and its predecessor, the Sacramento Medical Foundation.

"It is extremely important to maintain the blood supply for our region," said Farmer. "There are many people with a need for blood products, and it is also very important to help our region be prepared for emergencies."





"I have a number of friends who have needed blood, and it is encouraging to know that I am helping others."

GLEN PEARSON



Pearson, Northern District Chief with the Division of Planning and Local Assistance, believes that in a very small way, by donating blood, he is giving his life to another...one pint at a time.

"Recently, a friend's mother-in-law was losing blood internally and blood transfusions kept her alive for about two years while the doctors sought a cure," Pearson said. "This allowed her to watch her daughter retire from her job with accolades and honors. Plus, by donating in her name, it saved the family money."

Since 1975, Pearson has donated 81 pints of blood equal to about 10 gallons of blood to the BloodSource of Shasta County.

"I have a number of friends who have needed blood, and it is encouraging to know that I am helping others. Also, I have been blessed with meeting the requirements and if I don't give, then folks might die just because there isn't enough blood," said Pearson. "It is such a simple thing, and having more than 80 pints of donation I can feel that I have saved maybe 40 lives."

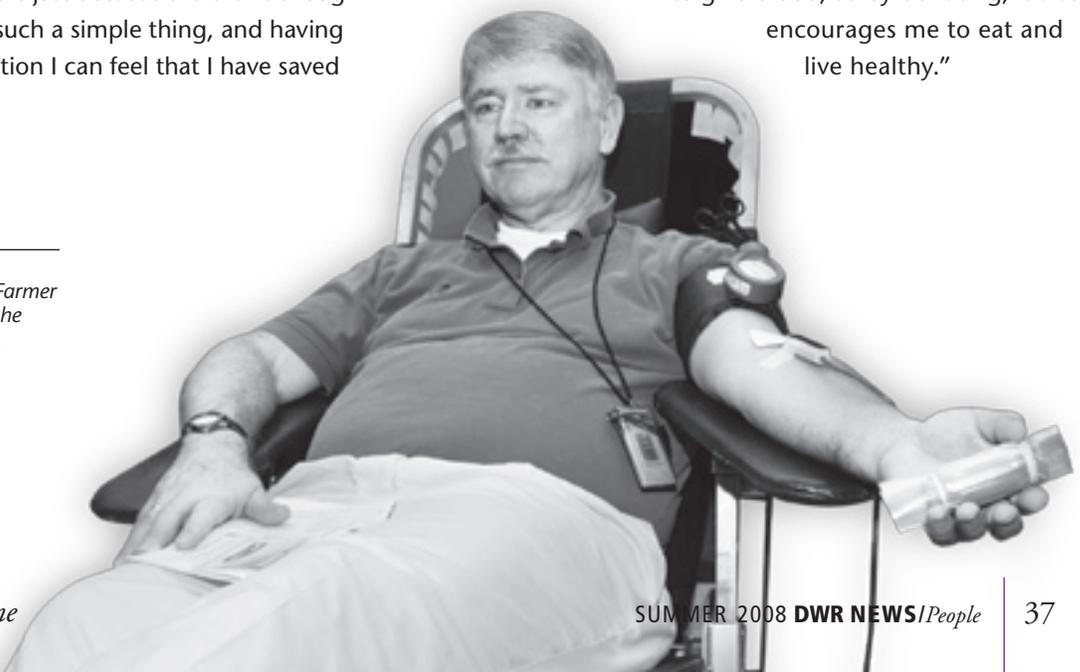
Pearson used to spend up to two hours at the city-wide donation center waiting for his turn to give blood. With the blood mobile, he now donates blood in 45 minutes.

"The best part is having to take it easy after donating," said Pearson, "That gives me an excuse to have a guilt-free afternoon of watching basketball, baseball, or football on TV, instead of working on the 'Honey-do' list."

According to Pearson, the blood testing stick is considered the most painful part of the process.

"When I started donating blood after a suggestion from a co-worker, I looked at those who had given 10 gallons and thought that was an impossible feat," said Pearson, who has been with DWR 34 years. "I realize that not everyone can give blood. Coming to that realization, I felt more compelled to donate blood. I also know that if I am healthy, I can continue to give blood, so by donating, it also encourages me to eat and live healthy."

System Software Specialist Frank Farmer donates blood to BloodSource at the Resources Building in Sacramento.



Future Blood Drives

The 2008 DWR and Matt Sugarman Memorial Blood drives are held from 8 a.m. to 2:45 p.m. in the Resources Building First Floor Auditorium in Sacramento.

From the four 2008 Blood Drives at the Resources Building in January, March, May, and July, 235 pints were collected.

The Matt Sugarman Memorial Blood drive is a semi-annual blood drive co-sponsored by DWR and the Department of Parks and Recreation in memory of Matt Sugarman, a former Parks and Recreation Ranger who needed blood transfusions for cancer.

As a reminder, all donors must be in general good health, weigh at least 110 pounds and be at least 17 years old (16 with written parental/guardian permission). To schedule a Blood Drive appointment, visit: <http://donateblood.water.ca.gov/cgi-bin/donor/drive=0>

"There is the opportunity to donate blood throughout California. In Northern California, The BloodSource of Shasta County will send the blood mobile to any office in their area where they have the opportunity to reach at least 15 donors," said Pearson. "So, DWR staff outside of Sacramento do not have to travel to Sacramento to donate life-saving blood."

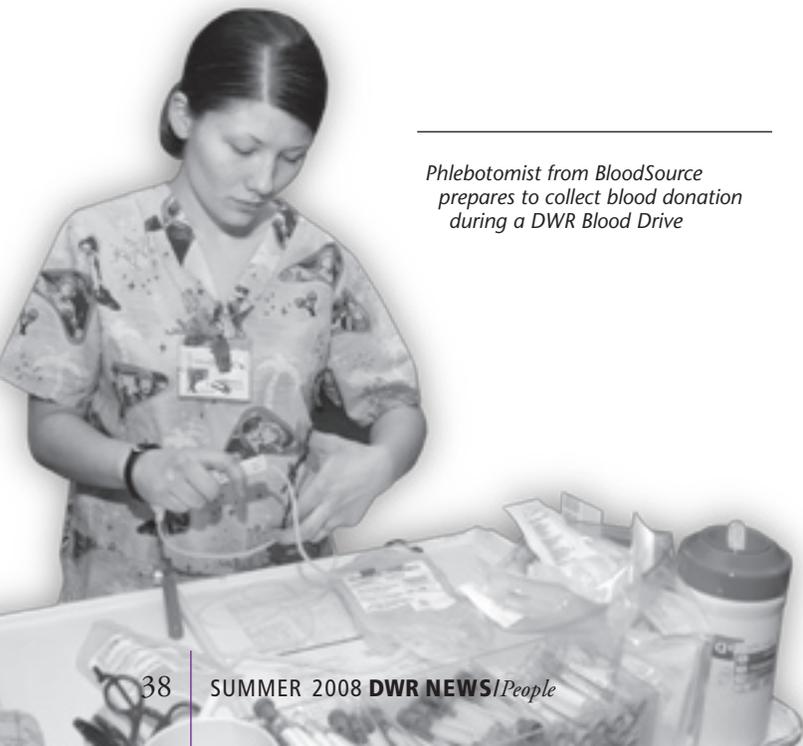
There are also 14 BloodSource centers located throughout Northern and Central California. For more information, visit the BloodSource Web site at <http://www.bloodsource.org/>

To locate a blood center in your area if you are outside the BloodSource service area, please visit www.americas-blood.org or www.aabb.org Employees can enter their zip code and find the closest blood center to their home or office.

- **Bakersfield is serviced by Houchin Blood Services:** (661)323-4222
- **Byron is serviced by Blood Centers of the Pacific:** (888)393-GIVE
- **Glendale (Los Angeles County) is serviced by the American Red Cross:** (800)448-3543 ■

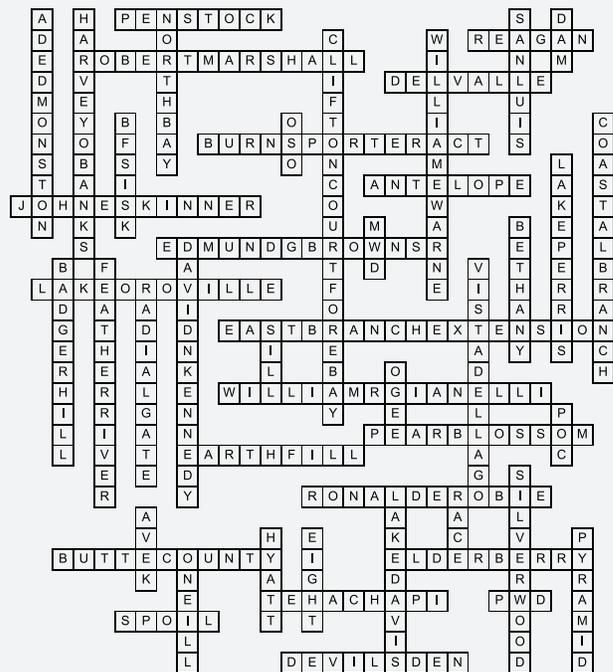
In 2008, the following Blood Drives are scheduled:

- Thursday, September 18
- Thursday, November 20
(Matt Sugarman Memorial Blood Drive)



Phlebotomist from BloodSource prepares to collect blood donation during a DWR Blood Drive

Crossword Answers





The Wonders of Aerial Photography

By Amy Norris

Paul Hames has enjoyed his entire 40-year photography career, but the 11 years he has spent shooting pictures for DWR have provided some of the most diverse and exciting assignments.

Ranked high among his recent favorites are aerial photo shoots with pilot **John Hamilton**, owner of Sacramento Executive Helicopters. When Hames and Hamilton are up in the four-seater Bell Jet Ranger, it's truly a collaboration. Hamilton has been flying for DWR for 17 years and is very familiar with the Department's work.

"He knows all of our facilities, the rivers, streams and sloughs, the layout of the Delta, the entire State Water Project and even how it works," said Hames. "I learn something new about DWR every time I fly with John."

Shooting from the air often reveals more than what can be captured at eye level, allowing Hames to focus on the details or go for "the big picture."

"When documenting 40 critical levee erosion sites after the Governor's emergency declaration, we initially started photographing sites from the ground. But it was difficult to show what deterioration had taken place and if you were on one side of a river, you may have to drive 30 miles to get to a levee on the other side," said Hames.

By taking to the sky, Hames can shoot over one thousand images in just a few hours and, traveling at over 100 miles per hour, can plan a route as the crow flies without backtracking or wasting time.

On a recent aerial shoot, Hames and Hamilton were able to cover most of the Delta, capturing images to be used in displays and brochures, as graphic artwork or for other technical purposes. The pair worked with Graphic Designer **Cordi McDaniel** to find the best light and angles to satisfy her needs and to spot other potential shots.

With the help of McDaniel's artistic eye and Hamilton's flying skills, Hames captured vivid photographic evidence of subsidence, serpentine waterways meandering through the Suisun Marsh, pristine areas of landscape, and fields of green and brown showing a vast array of agriculture.

In contrast, Hames also shot refineries, bridges, towns, marinas, windmills, cargo ships by Stockton and industrial sites by Benicia.

At Hames' request, Hamilton makes spur-of-the-moment flight adjustments for the perfect picture: double loops for a lens change, hovers over a site, sharply turns and rises or drops in altitude.

Hamilton has flown so many times with Hames and the other photographers that he has developed his own interest in photography and has a sharp eye for a good picture. On one occasion, he spotted an interesting shot of a pipeline converging into Mount Diablo, and has also used his helicopter to prod geese into flight to create the perfect photo op.

By the end of the flight, Hames had captured more than 1,200 photographs on an almost perfectly clear day. "There are so many impacts in the Delta and since a picture is worth a thousand words, I said an awful lot on this flight," said Hames.

Hames' photography career began when he enlisted in the Navy in 1968. After several tours in Vietnam as a Navy photographer, he completed his photojournalism degree at the Rochester Institute of Technology.

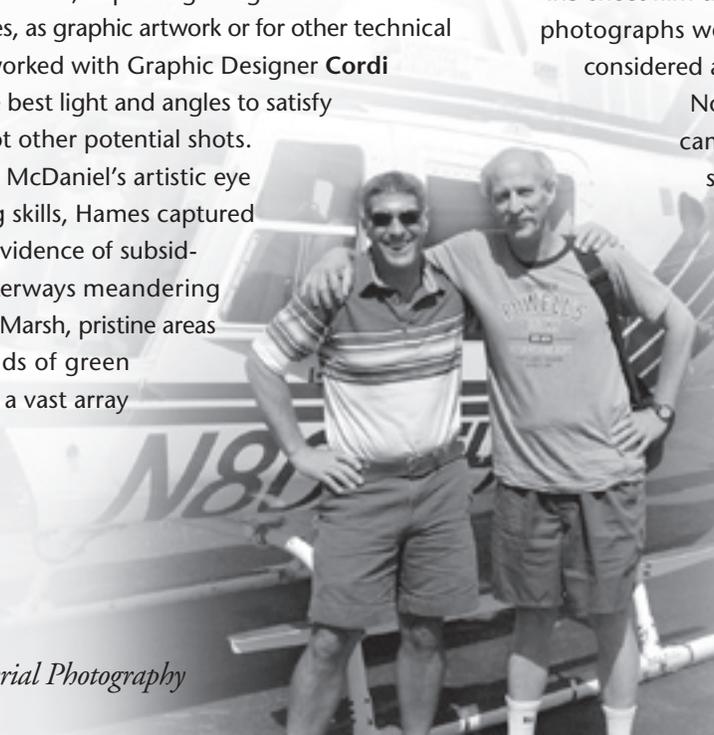
One highlight of his long career in the private sector was 16 years spent at the Lawrence Berkeley National Laboratory, where he photographed the official portraits of Nobel Laureates Glenn Seaborg (plutonium) and Melvin Calvin (photosynthesis).

When Hames started his career, his main equipment was a Speed Graphic camera with a single lens, flashbulbs and 4x5 sheet film that was processed in a dark room. Almost all photographs were taken in black and white, as color was considered a luxury.

Now, Hames uses a 35mm Nikon D2x digital camera with a 4 gigabyte flash card that can store over 500 images. Black and white film is the luxury, and Hames "develops" his work with a click of a mouse on a computer.

"The basic concepts of photography are still the same, but the technology has advanced at the speed of light. And I still enjoy every part of my work!" said Hames. ■

Preparing to begin aerial photo shoot, Paul Hames stands with pilot John Hamilton (left)



Creativity in Quilting

By Annie Parker

Roslind Moses, Library Technical Assistant in the Office of the Chief Counsel, spends a typical day at work making sure the law library is running smoothly. She updates library materials, helps users with legal research, and processes invoices.

In her free time, however, Moses is given a chance to indulge in her more creative side with her growing interest in quilting. She has been quilting since the birth of her second daughter five years ago.

Moses' interest in quilting started with a trip to a local quilting store to buy some thread for a home project

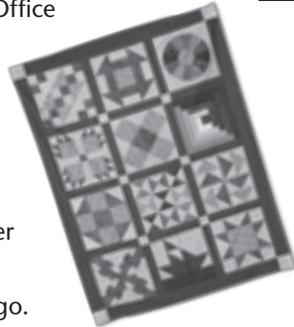
"While I was standing there in the store looking for the right shade of thread, I started admiring all of the different quilts that were hanging on the wall. I decided to sign up for some classes and after a few sessions I was hooked," said Moses.

She signed up for several different classes at different stores, and is currently a member of the "Block of the Month" Club, a quilting club in which the members add at least one block to their current quilting project.

Moses has completed five major quilting projects and several smaller projects.

She said her goal is to complete one major project a month, "but that might just be wishful thinking right now."

"I usually give away most of my projects when they are completed," said Moses. "I've made quilts for my mother, mother-in-law, my daughters and other friends and family."



"I usually give away most of my projects when they are completed,"

ROSLIND MOSES

According to Moses, one of her favorite quilting projects was the recently completed project that tells the story of the Underground Railroad through imagery. She displayed this quilt along with the story of what the accompanying symbols meant to her younger daughter's third grade class as well as to her older daughter's Girl Scout troop.

Each block on the quilt is a symbolic rendering of the secret path taken by travelers on the Underground Railroad on their way to freedom in Canada. The historical significance and the skill that went into the creation of the quilt went over well with the children in class and in the troop, according to Moses.

"At first, they were amazed that I could actually create a quilt. And then, they got into the story," said Moses.

While she sends off her completed quilts to be assembled and finished, Moses does the block stitching at home by hand and with her sewing machine. In class, she is also learning more about the various techniques of quilting, including appliqué and piercing.

Through the "Block of the Month" Club monthly assignment, Moses has also been learning new styles, which has allowed her to better develop her own personal sense of color selection and style. The latest assignment includes the submission of a "log cabin" quilt block, which is essentially two-inch strips of fabric pieced together in different colors and patterns to create a "log cabin" quilt block, which will later be added to a larger quilt. Moses also is currently working on a quilt with a theme of butterflies for her younger daughter.

"It's hanging on the wall in pieces right now, so it's still in the concept phase," said Moses. "But it will look really nice when it is done." ■

Roslind Moses holds quilt of the Underground Railroad, which took her a month to complete.



San Joaquin District Employees Honored at American Red Cross Heroes Breakfast

By Anna Torres

DWR San Joaquin District employees, **Charles Peery** and **Dana White**, were honored by the American Red Cross and **DWR Director Lester Snow** this year for saving the life of co-worker, **Holly Ferrin**.

“Both Dana and Charlie continue to be very humble about the recognition they are receiving for saving Holly’s life,” said Chief of San Joaquin District **Paula Landis**. “They do not see themselves as heroes. They just instinctively did the right thing. They are the kind of co-workers everyone should be luckily enough to have on their team.”

On February 6, 2007, Ferrin and Peery, both Water Resources Technicians for DWR’s Water Management Section and Data Unit, were performing stream flow measurements in the Modesto area. Since their vehicle was not operating properly, Water Resources Technician White arrived to drive them both back to the District.

During the transfer of items from the vehicles, Ferrin fainted. White quickly responded by dialing 9-1-1 while Peery pulled Ferrin out of the vehicle to check her vital signs. After discovering that her lips were blue, her pulse faint, and her eyes dilated, Peery quickly took action and started CPR while White followed instructions from an emergency operator.

After the paramedics arrived, Ferrin was defibrillated twice before she was taken to a Modesto hospital and then transferred to a rehabilitation hospital in Bakersfield.

Thanks to the quick response of her co-workers, Ferrin is alive and recuperating at home.

Both employees were nominated for the American Red Cross “Good Samaritan Heroes” award by their supervisor **Iris Yamagata**, Chief of the Water Management Section and



(Left to Right) Dana White, Holly Ferrin, and Charles Peery attending the American Red Cross Heroes Breakfast on April 2 in Fresno.

Data Unit. Their crystal awards sponsored by the Fresno Bee were presented during the Sixth Annual Heroes Breakfast in Fresno on April 2.

The Good Samaritan Award is presented to an ordinary citizen using life saving skills to save the life of another adult. Thirteen men and women from various backgrounds, including law enforcement and fire department employees, received awards on behalf of the Red Cross’ Fresno-Madera Chapter. Other awards included the Military Hero, Marine Rescue Hero, Fire Rescue Hero, Law Enforcement Hero, Youth Good Samaritan Hero, and Community Hero.

“I was very honored and proud to be selected with the group at the Red Cross Heroes award,” said Peery. “With 17 years of training with the Laton Volunteer Fire Department and 12 years of DWR CPR and first aid training, the skills I learned helped me to save a fellow employee’s life. It falls back on the Laton VFD and DWR training – it stays with you for life.”

White and Peery will also be receiving a “Governor’s Employee Safety Award” on August 28 at the Sacramento Convention Center. ■



(left to right) Charles Peery and Dana White receive 2008 crystal awards for being Good Samaritan Heroes.

Twenty-Five Years of Service



Gary Chee
Operations and Maintenance
(San Joaquin Field Division)
Senior Hydroelectric Power
Utility Engineer
July 2008



George Diaz
Operations and Maintenance
(San Joaquin Field Division)
Utility Craftsworker
Supervisor
May 2008



Teresa Geimer
Executive
Supervising Engineer
July 2008



Nicholas Keserich
Operations and Maintenance
(Southern Field Division)
Electrical & Mechanical
Testing Technician III
June 2008



Ray Lee
Planning and Local Assistance
(Central District)
Water Resources
Engineering Associate
July 2008



Perla Netto-Brown
Fiscal Services
Chief, Division of Fiscal Services
June 2008



Patrick Parsons
Planning and Local Assistance
(Northern District)
Research Analyst GIS II
July 2008



Robert Pierotti
Planning and Local Assistance
(Southern District)
Chief, Resources
Assessment Branch
July 2008



Curtis Wada
Operations and Maintenance
(Southern Field Division)
Hydroelectric Plant
Electrical Supervisor
May 2008

Professional Engineer Graduates



Jesse Cason, Jr.
Engineering
Associate Electrical Engineer
October 2007
(Electrical)



Damon Grimes
Engineering
Electrical Engineer
October 2007
(Electrical)



Anitha Raj Rednam
Associate Hydroelectric
Power Utility Engineer
California Energy Resources
Scheduling
January 2008
(Mechanical)

Retirements



David Kennard

After 18 years as DWR's North Coast Flood Management Coordinator, and 27 total years with the Department, **David Kennard** transitioned into retirement at his Fortuna home on March 17.

Photo by Sherry Constancio.

Following his nine years at Delta Field Division as a

Water Resources Engineering Associate, Kennard moved to Humboldt County in 1990 to succeed the retiring Bill Hansell as flood coordinator.

Initially located in Eureka's Federal Building, Kennard quickly became an integral part of the Humboldt County community – an area where he and his family often vacationed during his residence years in the Central Valley.

In March of 1994, Kennard moved his office to picturesque Woodley Island, just across Humboldt Bay from downtown. Working in close conjunction with the National Weather Service and the U.S. Geological Survey, he continued to warn North Coast residents of approaching Pacific storms and gave Sacramento's Division of Flood Management personnel a heads-up about weather systems that could pose problems to the rest of California.

His 18-year tenure in DWR's northernmost office also required keeping tabs on gauges and weather instruments throughout a 20,000 square-mile area.

Kennard says the strangest thing about retirement is realizing that he doesn't always have to be on his way to some far-flung destination. "I wake in the morning and still feel like I've gotta get up and get going," he says. "I don't know how long it takes to get over that feeling of urgency and just sleep in, but I guess it'll come with time."

Kennard looks back with great fondness on his DWR career, particularly his time in Humboldt County. "Here I was, on a beautiful island off California's north coast...with crab boats bobbing in the harbor...working out of an office with the Weather Service and the Geological Survey...totally plugged in to the community. Not too many government employees are able to have an experience like that."

With the exception of a short stint at the Department of Fish and Game, Kennard's entire time in government service was with Water Resources. He says he never regretted that career choice: "DWR is an agency that has stuck by me and done well by me in every situation I've been in. Basically, I never met anything but wonderful people, most of them well-educated and very capable, and I never had a clue when I started that would be the case."

Kennard holds two college degrees, a Bachelor in Education from Ohio's Miami University and one in Fisheries and Water Quality from Humboldt State. Before signing on with DWR, he was a junior high school teacher in upstate New York and in Oakland, California, with dual teaching credentials—K thru 12 and special education. He's thinking about renewing those credentials and working again with special kids.

Retirement allows more time to spend with his children, Lane and Kelsey, whom Dave describes as "my two real treasures and the lights of my life."

Travel is also on his radar screen. Growing up in an Air Force family, Kennard traveled extensively as a youngster, spending time in Europe and visiting 48 of the 50 states. Now, he plans to check out the two states that eluded him, Alaska and Hawaii. ■

Retirements

William Jordan
Southern Field Division
Water Resources Technician II

Craig Burnett
Technology Services
Assistant Information
Systems Analyst

John Chips
Oroville Field Division
HEP* Mechanical Supervisor

Marangu Marete
Operations & Maintenance
Operations Research
Specialist III

Alex Orozco
Technology Services
Staff Information
Systems Analyst

Hassan Vagharfard
Operations and Maintenance
Engineer

* **Hydroelectric Plant**

Retirements



Mary Ann Parker

DWR's sole Law Librarian Mary Ann Parker enjoyed her role as the seeker of knowledge during her 30 years as a librarian in California.

"I've always enjoyed reading and using the library. After attending San Jose State, one of the best library schools in the country, I thought I'd end up working there,"

said Mary Ann, who was born in Chicago and raised in San Jose. "I never thought I'd end up in a law library. It was a complete accident, but it was a happy accident. I've enjoyed working with the law, which has interested me in the way that it works."

Mary Ann has a Bachelor of Arts degree in History from the University of California, Santa Barbara in 1970. Mary Ann later earned Master of Arts degrees in Librarianship from San Jose State University and also in History from California State University, Fresno.

As her first law librarian assignment, Mary Ann accepted a job offer at the San Joaquin College of Law in Fresno by the Associate Dean, who was the future U.S. District Court Judge Oliver Wanger. After four years, Mary Ann moved to Sacramento and joined the Sacramento County Public Library as a Cataloger for one year. In 1984, she began her State career with the Office of the State Public Defender as a Librarian until joining DWR in 1989.

During her 19 years with DWR, the most visible change in library research has been the increased use of electronic research. When she joined the Legal Office (now known as the Office of the Chief Counsel (OCC)), she spent numerous

hours researching in books in the DWR law library and at the State Law Library. Today, Mary Ann guides OCC staff on how to find the information and suggests strategies for researching. With the increase of more than 13 new DWR attorneys in the last year, Mary Ann has been busy updating them on the sources that are available and when it's faster to use the books instead of Web site information.

"I've enjoyed very much working with attorneys, who are seekers after knowledge," said Mary Ann. "They have always provided constant feedback and showed their appreciation."

As Law Librarian for DWR's 31 attorneys, Mary Ann was responsible for managing the law library, including acquisitions, reference, cataloging, and WESTLAW, an online legal research database for attorneys in the United States. DWR's Law Library, which is one of the largest libraries among state agencies, contains more than 22,000 volumes of books and documents, including primary sources of California and federal law.

Mary Ann has been also a member of the American Association of Law Libraries since 1978 and the Northern California Association of Law Libraries since 1980.

"How great it has been for me to work for DWR and to have my daughter Annie also working here at DWR," said Mary Ann. "It's the right time for me to retire since Annie, who recently became an Information Officer for Sacramento County, no longer works here."

As a retired annuitant, Mary Ann plans to assist in the implementation of a search engine database that will make 54,000 pages of legal memos available electronically. ■

Promotions

Shahram Ahi

SWP Analysis Office
Senior Engineer

Mary Akens

Executive
Staff Counsel

Vince Alvidrez

San Joaquin Field Division
HEP* Electrician II

Michael Anderson

Flood Management
Senior Engineer

Dennis Balinsat

Technology Services
Supervising Land Agent (Supv.)

Steven Bloomfield

Delta Field Division
Senior HEP* Operator

Carmen Borelli

San Luis Field Division
Water Services Supervisor

Dwight Brewer

San Luis Field Division
Water Resources Technician II

Larry Brown

Flood Management
Senior Engineer

Linda Cadano

Executive
Associate Governmental
Program Analyst

Paul Calder

San Joaquin Field Division
HEP* Mechanic II

Deserie Campos

Management Services
Senior Personnel Specialist

Gregg Cardoza

San Joaquin Field Division
Utility Craftsworker

Paul Casillas

Flood Management
Utility Craftsworker Supv.

John Chairez

Operations & Maintenance
Assoc. HEP** Utility Engineer

Jay Chamberlin

Flood Management
Environmental Program
Manager I (Supv.)

Travis Chaney

Operations & Maintenance
Associate Information
Systems Analyst

Rose Chinakwe

Fiscal Services
Accounting Administrator I
(Supv.)

* **Hydroelectric Plant**
** **Hydroelectric Power**

INFORMATION PROVIDED BY DWR'S PERSONNEL OFFICE

Retirements



Ann Marie Alexander

As DWR's Special Events at State Water Project Facilities Coordinator, **Ann Marie Alexander** has traveled throughout California to educate the public about water and the SWP.

"The Jack Splash" club in Oroville and Silverwood Lake's camping event are among the many events that Ann Marie coordinated for DWR.

"When I began my State career with the Department of Food and Agriculture, I became the only women working as an Agricultural Economist," said Ann Marie, whose state government career spans 31 years. "I worked with farmers, producers, and public relations firms on the marketing of California's agriculture."

Ann Marie's DWR career began with the State Water Project Analysis Office as a Staff Services Analyst. She then transferred to the Office of Water Conservation (now the Office of Water Use Efficiency and Transfers). Her public outreach assignments included the promotion of water conservation kits. In 1988, she joined the Public Information Office (now known as the Public Affairs Office).

Ann Marie worked with water agencies to create "Activities Integrating Mathematics and Science (AIMS)" workshops for teachers.

"This workshop was a win-win situation," said Ann Marie. "It was wonderful and rewarding for me to see that the teachers

were benefiting and that these activities were so easy, didn't take much money, and were so helpful to the teachers and the kids."

Ann Marie also initiated and developed the "Jack Splash" club for children aged 4-14 years in the Oroville-Chico-Marysville area. As a member, children learn about water safety, the environment, history and the community while having fun in Lake Oroville recreation.

"I've always thought my job is going in and developing the program, then when it's running stepping aside and letting others take over," said Ann Marie. "The success of these programs is due to the support from many people in DWR and local communities statewide."

In addition to assisting with the celebration of the 25th Anniversary of Oroville Dam and several Water Awareness Month events throughout California, Ann Marie has also assisted in the development of DWR's participation at the International Sportsmen's Exposition, the Fred Hall Show, Aquatic Adventure Camps and several "Catch a Special Thrill" events.

Ann Marie, who retired in June as an Associate Governmental Program Analyst, has a Bachelor of Arts degree in Home Economics from the University of California, Santa Barbara. She also has a Master of Arts degree in Food Research from Stanford University and a teaching credential from the University of California, Berkeley. Before starting her State career, Ann Marie taught Social Studies for seven years at Menlo-Atherton High School in the Bay Area. ■

Promotions

Teresa Clausen

Technology Services
Associate Information
Systems Analyst

Andrew Cowell

Operations & Maintenance
Precision Electronics Specialist

Allan Davis

Engineering
Supervising Land Agent

Kimberly Deane

Fiscal Services
Staff Services Manager I

Michael Dempsey

Environmental Services
Control System Technician III

Param Dhillon

Safety of Dams
Senior Engineer

Rebecca Dominguez

Safety of Dams
Associate Governmental
Program Analyst

Wesley Dote

Engineering
Senior Land Agent

Bonnie Duecker

Southern Field Division
Water Services Supervisor

Teresa Engstrom

Engineering
Principal Engineer

Yolanda Evangelista

Technology Services
Staff Information Systems
Analyst

William Fackenthal

Management Services
Staff Services Manager III

Joel Farias Jr.

Flood Management
Assistant Utility Craftworker
Supt.

Robert Fill

Engineering
Construction Supervisor III

Vickie Flannery

Environmental Services
Executive Secretary I

David Galleano

Southern Field Division
Senior HEP* Operator

Victor Garza

San Luis Field Division
Utility Craftworker

* Hydroelectric Plant

Promotions

Charles Geeter

Technology Services
Staff Information Systems
Analyst

Jacqueline George

California Energy Resources
Scheduling
Legal Secretary

Roland Geronilla

Southern Field Division
Senior HEP* Operator

Curtis Green Jr.

Operations & Maintenance
Senior Water and Power
Dispatcher

Carolyn Harris

Southern Field Division
Senior HEP* Operator

Kyle Hartwigsen

Environmental Services
Environmental Scientist

Shawntae Hazewood

Management Services
Office Technician (Typing)

Todd Hegwood

Southern Field Division
Utility Craftworker

Adel Hicks

Fiscal Services
Senior Accounting
Officer (Supv.)

William Hoffmann

Planning & Local Assistance
Staff Environmental Scientist

Michael Hom

Technology Services
Systems Software
Specialist III (Supv.)

Judy Huang

Fiscal Services
Associate Accounting Analyst

Md Nazrul Islam

Bay-Delta Office
Senior Engineer

Marcella Keppler

Executive
Associate Governmental
Program Analyst

Gina Ladd

Safety of Dams
Executive Secretary I

Susan Larsen

SWP Analysis Office
Associate Governmental
Program Analyst

Mark Law

Operations & Maintenance
Senior Programmer Analyst

Latrice Leslie

Management Services
Associate Personnel Analyst

Yiguo Liang

Flood Management
Senior Engineer

James Lopes

Engineering
Senior Engineer

Daniel Mcconnell

Management Services
Business Service Officer I
(Supv.)

Jeremiah Mcneil

SWP Analysis Office
Senior Engineer

Jennifer Metcalf

San Joaquin Field Division
Water Services Supervisor

Luis Meza

San Luis Field Division
HEP* Operator

Nancy Miller

Technology Services
Data Processing Manager IV

Clarice Moody

Engineering
Construction Management
Supv.

Mohan Niroula

SWP Analysis Office
Senior HEP** Utility Engineer

Curtis Nord

San Joaquin Field Division
Utility Craftworker

Victor Pacheco

Bay-Delta Office
Principal Engineer

Karen Pack

Management Services
Senior Personnel Specialist

Matthew Parker

Engineering
Senior Engineer

Larry Perkins

Engineering
Construction Supervisor I

George Qualley

Flood Management
C.E.A.

Charles Ragsdale

Operations & Maintenance
Senior Water and Power
Dispatcher

Merritt Rice

Flood Management
Senior Engineer

Andrea Riley

Management Services
Associate Personnel Analyst

Kevin Rivas

Southern Field Division
Utility Craftworker

Edward Roberts

Operations & Maintenance
Electrical Mechanical Testing
Technician II

Jesus Salazar

Southern Field Division
Chief HEP* Operator

Kathleen Sambrano

Management Services
Personnel Supervisor I

Anthony Schnepel

Oroville Field Division
Senior HEP* Operator

Steven Springhorn

Central District
Engineering Geologist

Kathryn Stacconi

Planning & Local Assistance
Associate Governmental
Program Analyst

Gail Tell

Fiscal Services
Senior Accounting Officer

Mary Tipton

Engineering
Mechanical Engineering
Technician I

Joseph Trujillo Jr.

Delta Field Division
HEP* Operator

William Voss

SWP Analysis Office
Senior Engineer

Katherine Weaver

Environmental Services
Environmental Scientist

Teresa Wegener

Flood Management
Supervising Engineer

Sau Wong

Fiscal Services
Accounting Officer

Melinda Woods

Executive
Executive Assistant

Eliza Yam

Technology Services
Systems Software Specialist II

Jon Yego

Flood Management
Senior Engineer

* **Hydroelectric Plant**

** **Hydroelectric Power**

New Hires

Katayoun Aflatouni

Operations & Maintenance
Electrical Engineer

Marcelino Alcantar

Management Services
Office Technician (Typing)

Crystal Alvarez

Flood Management
Office Technician (Typing)

Raul Barba

Flood Management
Engineer

INFORMATION PROVIDED BY DWR'S PERSONNEL OFFICE

New Hires

Ann Bradell

Management Services
Office Technician (Typing)

Kelly Briggs

Flood Management
Senior Environmental
Scientist

Darryl Brown

Flood Management
Engineer

Deane Burk

SWP Analysis Office
Electrical Engineer

Simi Chandran

Bay-Delta Office
Associate Governmental
Program Analyst

Youchen Chao

Flood Management
Engineer

Zhiqiang Chen

Bay-Delta Office
Engineer

Tim Cianci

Engineering
Construction Inspector
Technician

Kathleen Considine

Flood Management
Engineering Geologist

Margaret Cook

Executive
Senior Legal Typist

Balwinder Dhillon

Operations & Maintenance
Electrical Engineer

Trong Doan

SWP Analysis Office
Electrical Engineer

Justine Duplissey

SWP Analysis Office
Office Technician (Typing)

Joseph Eades

Oroville Field Division
Water Resources Technician I

Jonathan Edwards

Oroville Field Division
Engineer

Senarath Ekanayake

Flood Management
Senior Engineer

Karl Elizondo

Southern Field Division
HEP* Operator

Donald Foley

Technology Services
Systems Software Specialist II

Karina Fraguela Capellino

Executive
Staff Services Analyst

Nathanael Frank

Management Services
Staff Services Analyst

Melissa Garcia

San Luis Field Division
Administrative Officer I

Kimberly Goncalves

Management Services
Office Technician (Typing)

Geoff Gong

SWP Analysis Office
Electrical Engineer

Anthony Gonzales

San Joaquin Field Division
Warehouse Worker

David Graber

San Joaquin Field Division
Heavy Equipment Mechanic

Lesley Hamamoto

Environmental Services
Environmental Scientist

Andrea Hoffman

Technology Services
Data Processing Manager II

Marc Hoshovsky

Flood Management
Staff Environmental Scientist

Yen Huynh

Southern District
Administrative Officer II

Richard Kranz

Flood Management
Engineer

Larry Krogstad

Flood Management
Office Technician (Typing)

Jonathan Kwan

Engineering
Engineer

Lai Lei

Fiscal Services
Accountant Trainee

Keith Louie

San Luis Field Division
Electrical Engineer

Hoang Ly

Flood Management
Engineer

Bahadur Mann

Engineering
Right of Way Agent

Viviane Maxwell

Flood Management
Office Technician (Typing)

Angelica Mejia

Management Services
Labor Relations Specialist

Rosario Mesa, Jr.

Management Services
Office Assistant

Louise Moreno

Management Services
Staff Services Analyst

David Morrison

Flood Management
Engineer

Michael Oprean

Fiscal Services
Staff Services Analyst

Virginia Partosa

Public Affairs Office
Office Assistant (Typing)

Simon Pickett, Jr.

Management Services
Business Service Officer I
(Supv.)

Ruben Reveles, Jr.

Oroville Field Division
Warehouse Worker

Melinda Riley

Flood Management
Associate Governmental
Program Analyst

Bud Rojas

Technology Services
Electrical Engineer

Jennifer Russo

Environmental Services.
Office Technician (Typing)

Ricardo Sandoval

Flood Management
Senior Engineer

Daniel Schwartz

Engineering
Transportation Surveyor

Jeremy Shaffer

Flood Management
Engineer

Aimee Shepard

Executive
Senior Legal Typist

Azam Yar Siddiqui

Engineering
Electrical Engineer

Sandy Smith

Management Services
Staff Services Analyst

Thomas Snyder

San Joaquin District
Engineer

Angelica Torres

Safety of Dams
Staff Services Analyst

Anh Tran

Fiscal Services
Accounting Officer

Brian Walker

Flood Management
Engineer

Brian Wallace

Flood Management
Associate Programmer
Analyst

Jianzhong Wang

Bay-Delta Office
Operations Research
Specialist III

Debra Whiting

Fiscal Services
Associate Budget Analyst

Casey Wilder

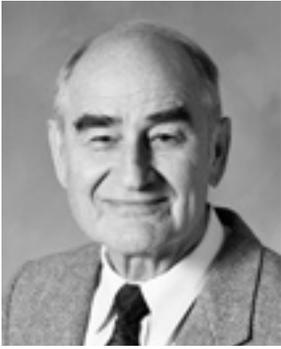
Flood Management
Engineer

Matthew Zimmerman

Southern District
Engineering Geologist

* Hydroelectric Plant

Obituaries



Ray B. Ballard

Ray B. Ballard, retired DWR Senior Control System Engineer, passed away at age 77 in Carmichael on April 21, 2008.

Ray, who was born in Washington D.C., served five years with the U.S Navy, then he came to California. He attended the University of California, Los

Angeles and then Cal Poly, San Luis Obispo where he received his Bachelor of Science degree in Electronic Engineering in 1958.

Before working for DWR, Ray worked for Douglas Aircraft and Aerojet. In 1966, he began his career at DWR working for the Division of Design and Construction (now Division of Engineering) where he helped develop the specifications for computer-controlled radial gates.

Ray later transferred to Operations and Maintenance as an Assistant Control Engineer. In 1977, he was promoted to a Senior Control System Engineer and became Chief of the Control Systems Engineering Section where he was a project manager supervising the modernization of a computer system that would operate and control all SWP facilities. According

to Ray, the computer system was planned to control water operations for the Project Operations Center, the forthcoming Water Operations Center, all the pumping and generating plants, check sites, and turnout structures.

"Ray's contributions as an Engineer to the automation of the State Water Project were immeasurable. He was responsible, very early on, in getting our Engineers and Technicians training into the working world of computer automation. He set up classes with Lawrence Livermore Lab, UC Berkeley and HP that helped provide the ground work for later development and design," said **Gene Delfin**, Ray's former supervisor and DWR Retiree. "As a supervisor, Ray was a caring and compassionate listener, helping the younger engineers to reach their goals. He was a true professional who left an indelible mark on the people he worked with, and the State Water Project's success."

Ray retired from DWR in December of 1993. From 1994 to 1997, he worked as a Retired Annuitant. He was also a world traveler and an active member of his church.

Ray is survived by his wife of 50 years, Joanna, his three children including son Steve who works for DWR and five grandchildren. ■



Alfred 'Al' Garcia

Al Garcia, a retired Mobile Equipment Supervisor, passed away after a battle with cancer at the age of 78 on May 12 in Sacramento.

During his 30 years with DWR, he began working for the Sacramento Mobile Equipment Office on 16th and R streets as a Heavy Equipment Mechanic. In

1978, he was promoted to Heavy Equipment Maintenance Supervisor. Four years later, he transferred to the Mobile Equipment Parts Department and was promoted to Equipment Parts Manager. His duties included supervising shops at Pearblossom, Castaic, Bakersfield, Lost Hills, Coalinga, Los Banos, Tracy, Sutter, and Oroville, as well as doing inventory

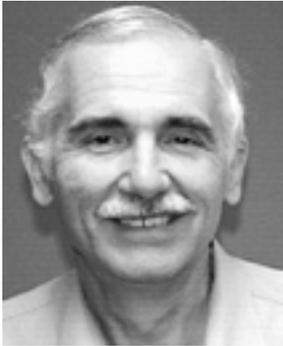
and State contracts for all offices. He supervised the Sacramento Shop since January 1995. He retired in June of 1996.

Al, who was born to Texas farm workers, grew up repairing farm equipment. After moving with his family to California and attending Courtland High School, he drove trucks for Campbell Soup Company and Sacramento County until he joined the State.

He had a passion for drag racing and his car "Super Mex", which won several awards from Cal Expo Autorama "Best Engineered," Sacramento Raceway for "Best Appearing Pro Car," and Tognotti's Award. Al and his Super Mex, which was one of the original "Pro Gassers," were featured in several Hot Rod magazines.

Al is survived by his wife of 61 years, Ruth, two sons, two daughters, 7 grandchildren, and 8 great-grandchildren. ■

Obituaries



Terry Lewis

Terry Lewis, a Retired Water Resources Engineering Associate with Flood Management's State-Federal Flood Operations Center, passed away at the age of 64 on April 26, 2008 after a lengthy illness.

Before starting his career with the State of California, Terry served with the Army in Vietnam during the mid-1960's. A Certified Public Accountant, Terry began his State career as a Tax Auditor for the Franchise Tax Board in 1974 before joining DWR as an Associate Administrative Analyst for Fiscal Services in 1977. He served DWR in many roles ranging from Chief of the Internal Audits Office to DWR's FEMA Coordinator.

Terry's persistent, well-organized research and documentation of disaster claims set the standard for FEMA Recovery, bringing significant federal reimbursement dollars back to DWR.

"Terry Lewis was invaluable in working on various flood and fire disasters during the 1990's," said **Charlie Stucke**, retired Administrative Officer of the Division of Flood Management.

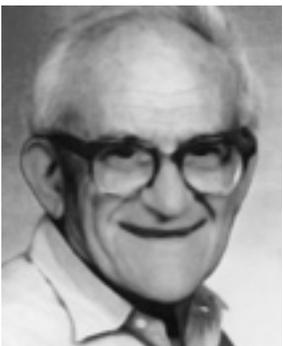
"His knowledge of accounting, OES, and FEMA rules helped DWR recover millions of dollars of reimbursements. Terry was a great co-worker and teacher to all who had the opportunity to work with him."

Terry was also active on DWR's "Aqua Ducks" coed softball team in the 1980's. He participated in WalkAmerica along with the 1989 and 1990 DWR Holiday Season Charity Raffle to benefit the Sacramento Children's Home.

"Terry was one of the smartest people I have known. He was an expert on budget issues, SAP, and a spreadsheet master," said **Diane Peterson**, a DWR Retiree. "He had such a great sense of humor; shared so many wonderful stories about his life; and spoke often of his family with great affection. He was both a mentor and a friend, and I will miss him."

Terry, who was born in San Francisco, received his Bachelor of Science degree in Accounting in 1969 and his Master of Business Administration degree in 1978 from California State University, Sacramento. He retired in 2001 and returned as a Retired Annuitant in 2002.

Terry is survived by his wife, Heddy, three sons and three daughters. ■



Mitchell Gould

Mitch Gould, a retired Supervising Engineer with Southern District, passed away at the age of 93 on January 28, 2008.

Gould, who worked 17 years for DWR, began as a Senior Civil Engineer. He retired from the State in 1977. While with DWR, Gould served as President of the California

State Employees Association Chapter 167.

During Gould's 37-year career with the State of California, he also worked for the Division of Highways on the early development of the Pasadena Freeway and other major highways.

Gould, who was the second oldest of eight children in Rochester, New York, contributed early on to the care and support of his large family. In 1936, he helped move his parents and siblings from the cold winters of Rochester to the sunshine of Southern California.

After the attack on Pearl Harbor, Gould entered the Army and became a First Lieutenant with the 62nd Signal Battalion, serving primarily in North Africa and Italy during the war. He was part of the Olympic Operation, steaming toward Japan in 1945 when the war ended, and was among the first American officers in Hiroshima to witness the aftermath of the atomic bomb.

Gould was later active in the San Marino City Club and the Historical Society, where he was known for his exuberant storytelling, songs, and zest for life.

During his retirement, Gould and his wife kept busy taking a wide array of classes and traveling. In 2004, they moved to La Verne, where Mitch participated in bridge, choir, and the writers' group.

Gould is survived by his wife of more than 60 years, Eva, and five children. Gould is remembered with great fondness by his family and friends.

Remembrances may be directed to the Mitchell L. Gould Memorial Fund of the San Marino Chapter of Women's American ORT, 3028 Oneida Street, Pasadena, CA 91107. ■

Obituaries



Jess Bringham

Jess Bringham, a retired Water Resources Engineering Technician II, passed away on March 20, 2008 from pulmonary fibrosis only two days after his wife Kathy died from pneumonia complications and just short of what would have been his 79th birthday in April.

Jess, a native Californian, joined the Division of Highways in 1953. His DWR career began as a Civil Engineer Technician in 1959. Three years later, he became a Water Resources Technician.

After more than 29 years of experience on many floods and in water data acquisition, Jess retired from the Flood Operations Branch of the Division of Flood Management in 1988. He worked as a Retired Annuitant from 1997 to 2003.

One of his assignments included preparing morning reports such as the daily 6 a.m. hydrologic summary report for the California Data Exchange Center.

During retirement, both he and his wife served their church for many years, including some short-term foreign construction missions, until health problems curtailed activities.

Jess is survived by three sons and five grandchildren. ■

Joyce Elaine (Terry) Romo

Joyce Romo passed away at the age of 76 on June 11, 2008 at her home in Sacramento.

During her more than 31 years of State service, Joyce worked for DWR in 1963 as an Intermediate Stenographer, then was promoted to a Stenographer II and Senior Stenographer. In 1969, she worked for the Legislative Counsel. After returning to DWR as Senior Stenographer, she became a Secretary in 1985. Joyce retired as Secretary for the Division of Design and Construction (now Division of Engineering) in 1992. From 1992 to 2001, she worked as a retired annuitant.

"I replaced Joyce Romo as Secretary in Plants and Pipelines. Fortunately with all her knowledge and experience, she

returned as a Retired Annuitant and could share valuable information. She was hard working and organized (you had to be as the secretary in Plants and Pipelines). I remember that she really enjoyed her work and the staff, and was an enjoyable co-worker," said DWR Retiree **Lynn Stephens**.

Joyce is survived by her husband Rodrigo and her four children and four grandchildren.

"Joyce was hard working, very patient and kind. When I was an OA, she quickly took me under her wing and helped teach me," said **Mary Ann Benny-Sung**, Administrative Officer with the Division of Engineering. ■



Grayce (Games) Lancaster

Grayce Lancaster, a retired Legal Support Supervisor, passed away at the age of 85 on May 12 in Sacramento.

During her 30 years of State service, she worked for DWR's Dam Design Section and the Office of the Chief Counsel, where she retired as Legal Support Supervisor

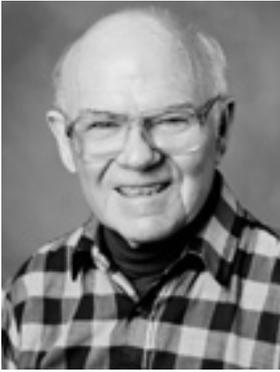
in 1988. She also worked at the Department of Motor Vehicles. In 1975, she worked for the Department of Transportation as a Senior Legal Stenographer for three years. After her DWR retirement, Grayce worked as a Retired Annuitant until 1992.

"I remember Grayce from the day I first came to work in the Office of the Chief Counsel," said **Katy Spanos**, Senior Staff Counsel of the Office of the Chief Counsel. "Grayce always knew what was going on both inside and outside the office. She cared personally about everyone and kept in touch with the office on a regular basis after she retired. I will miss seeing her."

For more than 20 years, she was an active member of WWII Submarine Veterans. She became the first woman elected as the Exalted Ruler of the Sacramento Elks Lodge #6, where she served for two terms. Grayce was a native of Michigan.

Grayce is survived by four sons, 11 grandchildren, and 15 great-grandchildren. ■

Obituaries



William John 'Bill' McCune

William "Bill" McCune, a well-known water quality expert with an impressive career spanning 50 years, passed away at the age of 83 on March 29, 2008 in Carmichael, California.

Bill, who was a native of Washington, Iowa, is credited with being the "cornerstone" of water quality monitoring for DWR.

Bill started his career in water quality as an engineer with the City of Napa, where he worked for almost two years. He joined DWR's Water Quality Section in 1958 as a Civil Engineering Technician. Bill later worked for the Northern Branch and the San Francisco Bay District Branch. When the latter became part of the Central District office, he spent 23 years at Central District working in the Water Quality Section. In 1991, he transferred to the Division of Planning and Local Assistance's Water Quality Assessment Section, where he worked until his retirement in 1995.

During his long and successful career with DWR, Bill was known as a "water quality pioneer" who conducted numerous limnologic studies on numerous reservoirs and lakes in Northern California. His efforts to establish baseline water quality conditions

continue to be valuable for assessing the ecological health of northern California bodies of water.

Bill also is credited with participation in the Sacramento River Water Pollution Survey, as well as coordinating with the State Water Resources Control Board to conduct water quality studies in Orange County in 1987.

Near the end of his career, Bill worked with the Municipal Water Quality Investigations Program helping to make significant progress toward ensuring clean and safe drinking water for a majority of Californians.

In 2004, the Bill McCune Real-Time Water Quality Monitoring Station was dedicated to Bill. The "real-time" drinking water quality station, downstream of the historic Vernalis Station on the San Joaquin River near Tracy, provides vital Delta water quality information, important to public health and the Delta economy.

During the surprise dedication ceremony, Bill was presented a letter from DWR retiree **Rick Woodward**, the first DWR Branch Chief of the Municipal Water Quality Investigations Program, in which Rick wrote that: "I believe it is safe to say no individual has contributed more to water quality science in the Department of Water Resources."

Bill is survived by his wife and her two daughters, and extended family. ■

Birth Announcements

Congratulations to DWR Parents:

Ajay Dev, Associate Engineer in the Bay-Delta Office, South Delta Management Section, has a son named Kishan Marley, who was born on March 17 weighing 6 pounds, 12 ounces, and measuring 20 inches long.

Thomas Snyder, Engineer with San Joaquin District, has a daughter named Lily Abigail, who was born on April 22 weighing 7 pounds, 12 ounces, and measuring 20 ½ inches long.

Nazrul Islam, Senior Engineer in the Bay-Delta Office, Central Valley Water Resources System Modeling Section, has a daughter named Afreen Nyla, who was born on February 29 weighing 6 pounds, 14 ounces, and measuring 19.1 inches long.

Lenny Grimaldo, an Environmental Scientist in the Division of Environmental Services, has a son named Santiago Felix, who was born on May 13 weighing 7 pounds, 14 ounces.

Dean Messer, Chief of the Environmental Assessment Branch for Operations and Maintenance and **Cindy Messer**, Senior Environmental Scientist in the Division of Environmental Services' Municipal Water Quality Investigations Section, have a daughter named Olivia Marie, who was born January 4 weighing 9 pounds, 5 ounces, and measuring 20 1/2 inches long.

Brad Tom, an Engineer in the Division of Environmental Services' Suisun Marsh Planning Section, has a daughter named Kaylyn Grace, who was born on March 18 weighing 8 ½ pounds and measuring 21 ½ inches long.

Dan Riordan, an Environmental Scientist in the Division of Environmental Services' Bay-Delta Monitoring & Analysis Section, has a son named Joshua Charles, who was born July 24 weighing 7 pounds and measuring 19.5 inches long.

DWR MISSION

Statement

To manage the water resources
of California in cooperation
with other agencies,
to benefit the State's people,
and to protect, restore,
and enhance the natural
and human environments.

STATE OF CALIFORNIA • DEPARTMENT OF WATER RESOURCES

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