

Flagship

SEATTLE DISTRICT

Saving
a
Sturgeon

Volume XXXIII
No. 1

Flagship

SEATTLE DISTRICT

What's Inside

4

Catch of the Day

6

Waste Water Treatment Plant

8

English Garden in transition

10

CRSO

12

Snow

14

Around the District



Cover: Fish-rescue team members Rhonda Lucas and Sean McDuff measure a 6-foot-long white sturgeon rescued from the bottom of the Hiram M. Chittenden Locks during the annual maintenance pump out November 10. Each year, Corps natural resource staff, fish biologists, scientists and volunteers go on a fish-rescue mission when the locks are drained. To ensure Endangered Species Act listed fish are safe, the team must capture, haul them out of the 50-foot-deep chamber and release them. The team doesn't limit its efforts to ESA listed species and this year the rescue included an estimated 100-pound sturgeon.

Flagship

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Elizabeth Chavarria: *This Flagship is for you*

In 1981, Liz began her Corps career as a secretary and a payroll clerk at the District's West Seattle Bridge Resident Office. Liz was reassigned to the District's Construction Division office in 1985. In 1992, she moved to an essential position supporting the Fort Lewis Area Office. Liz continued to be reassigned to positions of increasing responsibility until she reached her current position as Administrative Officer of the JBLM Office. Liz retired in February and Seattle District is wishing her all the best after more than 35 years of dedicated service!



Seattle District: Transitions can bring opportunities

The past year has been significant on many different levels for our District. Without a doubt it has been a year of transition for us. The district experienced nearly a 20 percent turnover of personnel including several senior leaders across the organization. Of course, your perception of this all depends on where you sit in the organization. We all have seen friends promoted, take positions in other organizations and retire.

Most notable to me is the transition we have had at the Corporate Board level. As I look around the table when we meet, only a few of the members remain from when I took command. While some might view this as a negative thing, I see it as an opportunity. I'm excited at the prospect of fresh ideas and energy. Transitions between leaders present great opportunities for our District to continue to move forward in a positive direction. All the new members of our leadership team continue to focus on the three major goals we set for the District - efficient and effective mission execution, taking care of people and ensuring leadership and accountability at all levels.

At the staff level, especially at our operating projects, I fully understand the high turnover represents vacancies in our workforce. And for every vacancy we have in our workforce, someone is out there working twice as hard to ensure that we are living up to our commitments and accomplishing our mission. We have been working closely with our Civilian Personnel Advisory Center (CPAC) to prioritize and streamline hiring actions. Further, I have challenged our managers to ensure they are doing their part to rapidly work through referral lists and ensure they are prioritizing hiring.

Despite the challenges associated with a high turnover rate this past year, we were remarkably successful in delivering our programs. Most notable is that the District has had two projects, Puget Sound Nearshore and Skokomish Ecosystem Restoration, Congressionally authorized in the Water Infrastructure Improvements for the Nation Act. While those represent years of study, elsewhere in the District our teams are out there executing each and every day. The list of ongoing construction projects that we completed and are currently executing is entirely too long to share here. Just know that your work is making a difference each and every day for our Armed Forces, our citizens, our region and the nation.

All the new members of our leadership team continue to focus on the three major goals we set for the District - efficient and effective mission execution, taking care of people and ensuring leadership and accountability at all levels.

Without a doubt, we should be very proud of what we have achieved. That being said, we should set forth and challenge ourselves to continue to improve. As a professional organization, that is what we do – learn and get better each and every day. To that end, I continue to seek feedback from a wide variety of sources on how we are doing. Recently, I asked you to complete a command climate survey. After fully analyzing your feedback, I will tell you that my assessment is that as a District we are moving in a positive direction. However, the real value in surveys such as



**Seattle District Commander
Col. John G. Buck**

this isn't knowing where things are going well, but rather identify areas where I need to focus my attention. It is clear that must continue to work on communication and ensure information flows throughout the organization.

Now that we are in 2017, this year again presents many opportunities our District to thrive. We will certainly mark a number of major milestones. A few that come to mind are completion of the turbine runner work at

Chief Joseph Dam, 90 percent design for the Mud Mountain Dam Fish Passage Facility, construction of Selah Airstrip at Yakama Training Center, continuation of deepening Grays Harbor, and the daily work of providing water resources and engineering solutions for the Pacific Northwest and the Nation. Also this year, transitions will continue across our entire organization, from top to bottom. I challenge each of you to seize the opportunities that each of these transitions represent to make your part of our great District even better.

Thanks for what you do for our District, our Army, and our Nation each and every day.

-Essayons!

CATCH OF THE DAY

Team rescues sturgeon at Chittenden Locks

A 6-foot white sturgeon waits for rescue in the bottom of the Hiram M. Chittenden Locks during the annual maintenance pump out.

By Bill Dowell
Public Affairs



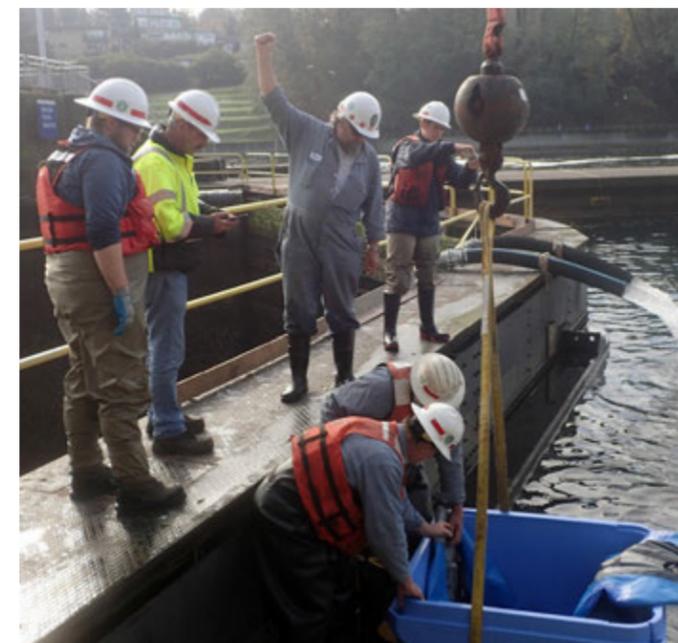
(Left) The team measures the rescued white sturgeon. Each year, Corps natural resource staff, fish biologists, scientists and volunteers go on a fish-rescue mission when the locks are drained. (Below) Maintenance workers and fish-rescue team members release the sturgeon. To ensure Endangered Species Act listed fish are safe, the team must capture, haul them out of the 50-foot deep chamber and release them. The team doesn't limit its efforts to ESA listed species and this year the rescue included this estimated 100-pound sturgeon.

A U.S. Army Corps of Engineers team rescued a 6-foot white sturgeon during the annual maintenance pump out at the Hiram M. Chittenden Locks November 10.

Each year, Corps natural resource and maintenance staff, fish biologists, scientists and volunteers go on a fish-rescue mission when the locks are drained. Although de-watering is done during low tide, some fish and other marine life are sometimes captured in the chamber when the lock gates are closed. To ensure Endangered Species Act listed fish are safe, the team must capture, haul them out of the 50-foot-deep chamber and release them.

The team doesn't limit its efforts to ESA listed species and this year the rescue included an estimated 100-pound sturgeon.

"Sturgeon have been observed infrequently in Lake Washington over the years," said Corps fish biologist Dr. Fred Goetz. "Most likely the fish would have passed through the Locks to get to the lake."



As a group, coastal white sturgeon do not migrate through marine waters as widely as green sturgeon, which are ESA listed, according to Goetz.

Upon finding the fish, the team immediately called on NOAA Fisheries sturgeon ecology expert Dr. Mary Moser. She went to the locks, verified it was a white versus green sturgeon and provided tips to the team on "successfully capturing and releasing the beast," said team lead Zach Wilson. It took the team about an hour to capture and release the sturgeon.

"The Corps' team did a great job putting together such a quick and successful rescue," Moser said.

A scan didn't find a Passive Integrated Transponder, or PIT tag, but the team took a DNA sample. Moser will run a test from the sample to identify if this sturgeon originates from the Columbia or Fraser River.

There is no white sturgeon season in Lake Washington but they are found in greater abundance in the Skagit, Stillaguamish and Snohomish Rivers where they can be caught, said Goetz.

Sturgeon date back to prehistoric times and are the world's largest freshwater fish, growing up to 20 feet long and weighing more than 1,000 pounds. An 8-foot-long specimen was found dead in Lake Washington in 2013 and another 5 1/2-foot-long sturgeon was inadvertently netted and released by a University of Washington research team in 2005.

There is also a 1987 photo online of an 11-foot, 900-pound, female white sturgeon that had lived in Lake Washington before she died of what researchers said were natural causes. They estimated she could have been 80 to 100 years old.

In addition to the usual flounder, crab, anemone and starfish, the team also rescued river otter and seals in the past.

The most unusual rescue? A wedding ring found and returned to the original owner who dropped it while tending lines on the couple's boat locking through.



Officials take part in a ribbon cutting ceremony for the upgraded Wastewater Treatment Plant that will serve all of JBLM, Camp Murray, and the VA Center in Lakewood, Nov. 21, 2016. (Courtesy photo)



JBLM opens new Waste Water Treatment Plant

By Rio Fernandes
The Northwest Guardian

The new Joint Base Lewis-McChord's Wastewater Treatment Plant was unveiled at a ribbon cutting ceremony November 21, Lewis North.

Attendees saw the plant activated and used for the first time. This ceremony featured an address from representatives from the Army Corps of Engineers, elected officials and military officials.

The plant is the culmination of more than two years of work and more than

\$90 million. It will be replacing the existing treatment plant, which was built in 1955. While it was maintained and upgraded throughout its history, the nearly 60-year-old building simply needed to be replaced.

"We can't wait until the 60-year old plant breaks to replace it," said Ken Weaver, U.S. Army Corps of Engineers project manager. "Think about all the cities around the Puget Sound. There has been a trend to improve the water treatment process."

The new plant supports JBLM,

Camp Murray and the Veterans Affairs Puget Sound Health Care System American Lake Division in Lakewood. It was an example of state, federal and local government coming together to get something done that will benefit the community. The ultimate goal of the project was to ensure people relying on the new plant will be taken care of for decades to come.

No expense was spared in building the new plant. It's loaded with the most cutting-edge technology, such as ultraviolet disinfection system and membrane filtration. It will be capable of handling a population of at least 100,000 people and handle peak flows of 12 million gallons of water a day. It's also being master planned to accommodate as much as a 50 percent increase over the existing plant's capacity.

The Corps also took great care to make sure the new plant will be environmentally friendly. It has passed stringent treatment standards and complies with every air quality requirement. These requirements, coupled with the new disinfection and filtration system, will guarantee people pristine water and a well-maintained environment for Puget Sound.

"There has been a lot of focus to build the plant with modern technology," Weaver said. "It's going to have huge leaps forward on how we affect the Puget Sound. We are working toward a zero discharge, which is great for the environment."

People should also be confident that this treatment facility will be able to stand the test of time, with officials expecting it to last as long as the previous one.

They have plans to secure and close the existing plant.

"If you're environmentally aware around the community, you'll be excited about this plant," Weaver said.



"We will be limiting our water footprint, which everyone should be happy about."

(Top) Construction equipment displayed for the project's ground breaking ceremony, Mar. 21, 2014. (Middle) Official tour the facility during construction. (Bottom) An aerial view of the construction progress seen in early 2015. (Courtesy photos)



An aerial view of the construction progress seen in early 2015. (Courtesy photo)

The English Garden in transition: 1974-1993

By Stephen Munro
Gardener

Carl English still came to visit the Locks after his retirement. Occasionally, he would drive down from his Sunset Hill home and walk his collie dog and quietly enjoy the garden that he created. He visited for the last time in August 1976.

The assistant gardener found Carl. Michael Fleming felt something was amiss that summer morning when he arrived to work. He saw Carl's car parked adjacent to the greenhouse in the same place it was the afternoon before.

Mike approached the car and found Carl. He had fallen backwards between some logs. "Carl, are you alright?"

Mike already knew the answer before he knelt down to touch him. He recalled he was cold as could be, dead of an apparent heart attack.

During an internship with the City of Seattle working under the Seattle City forester Marvin Black, Mike met Carl English. Marvin wanted to visit the Locks to speak with Carl about plants and brought Mike with him. Mike remembered feeling a bit out of his league,

but was relieved by Carl's gracious and calm manner and generosity with which he shared his time and information. It was a wonderful and exciting experience for him.

When word got out that Carl English would be retiring from the Locks Mike put in for employment with the Corps of Engineers. His Army service in Vietnam afforded him a 10-point veteran status. This coupled with his newly obtained degree in horticulture all but assured him of a job. He was 28 when he began working with Walter Lyon in 1974.

Carl was succeeded by his long-time friend and co-worker Walt Lyon. Mike would be assisting Walt maintaining the garden. Walt, as Mike recalls, was a good man, a smart man

who knew the garden.

Walt was intensely loyal to Carl and his vision and so he did his best to maintain the garden as Carl had left it. Walt recorded the history of the garden by painstakingly drawing maps of the planting beds and noting the extant plant collections. While being very kind and ardent, he was also taciturn. Walt was ill at ease and gained little pleasure in mixing and lurching with colonels and generals along with other Corps decision makers.

As Mike puts it. "Walt's frustrations were trying to explain the value of the garden to the Corps. He did that over and over again. He would go to a meeting and coming back, you could tell he was upset."

Walt and Mike would work on several large projects together but maintained the garden largely independently of each other. Mike, in jest and seriousness, remarks that the tools and methods they used were almost medieval. Walt oftentimes was so exhausted he would fall asleep in his chair after removing his boots at the end of the workday.

Walt retired in 1978 and Mike Fleming became "head gardener." He was also alone and apprehensive. Mike was aware that he now was in



Michael Fleming and Johnny Martin plant flowers in preparation for the Lock's 75th anniversary celebration during the summer of 1992.



Walt and Mike at Walt's retirement, 1978.

charge of a huge garden, built almost singlehandedly by Carl English and dutifully preserved by Walt Lyon. He was daunted at the prospect of his new position and it took him awhile to feel like he was actually up to the task. Without Walt to help guide Carl's vision, Mike was in the wilderness as to how he would be able to maintain, preserve, and improve the garden.

Mike quickly tackled this challenge in earnest. He sought advice from Carl's peer and old friend Brian Mulligan, Director of the Washington Park Arboretum. He also polished his public speaking skills and familiarity with the garden to more ably pursue his new role.

As Mike worked in the garden more he became more in awe of what Carl was able to accomplish. The deftness for the way he planted things in

the right place and how massive his ambition and accomplishment really was. Everyday Mike would discover something of interest Carl had grown or planted. Endearingly, Mike would discover caches of potted plants Carl had clearly left as gifts for people or perhaps even forgot to plant, so prodigious was Carl's propagation of plants.

In 1980 Mike received some unlikely help from a new hire to the garden. Johnny Martin was a 50 year old retired U.S. Navy Yeoman recently graduated from South Seattle Community College with a horticultural degree.

The beginning of Mike and Johnny's working relationships was inauspicious. Mike was skeptical as to the merit and efficacy of hiring an older man to work in the garden.

In hindsight Mike was delighted he hired him. The hiring was actually a stroke of luck. While Mike worked with many fine people in the garden Johnny was distinct.

"Johnny was a real statesman. (We had) an amazing relationship. We were just like two peas in a pod. Greatest guy ever to work with. He was like my left hand, I was like his right hand. The finest years I had at the Locks was working with Johnny



Mike and Johnny near the greenhouse preparing for the day's work.

Martin."

Indeed Mike and Johnny's partnership from 1980 to 1993 was industrious. Johnny's Navy Yeoman experience helped with planning, formulating letters, and developing the horticultural program with the pen and typewriter. The two were constantly working on ways to improve the performance of the section and thinking ahead to innovate and improve. Together, they were able to pick up the baton left by Carl and Walt and to honor all that they had accomplished.

As Mike explained. "We knew the garden needed renovation that it needed to be saved. We did it and we did it very well."

A typical laconic Johnny on the tractor with Mike at Loop road overlook bottom right: Mike as District Horticulturalist



Corps launches dam operations review



By Scott Lawrence
Public Affairs Office

Charging into the new fiscal year, Seattle District technical experts joined a comprehensive effort to review long-term effects of federal dam operations on the Columbia and Snake Rivers, known as the Federal Columbia River Power System, or FCRPS.

The U.S. Army Corps of Engineers operates 12 hydropower dams in the

system -- including Seattle District's Albeni Falls, Libby and Chief Joseph dams -- and the Bureau of Reclamation operates two. Bonneville Power Administration markets power the system generates.

The three agencies are jointly developing an Environmental Impact Statement, or EIS, to evaluate environmental and other impacts from dam

operations and configurations. The review resulted from U.S. District Court Judge Michael Simon's ruling last May for the agencies to produce a comprehensive EIS by March 2021.

While much planning took place ahead of time, the opening of the public comment period Sept. 30, 2016, signified the beginning of the review process.

To inform the public and solicit input, federal agencies launched a whirlwind series of 16 public scoping meetings in Washington, Montana, Idaho and Oregon, from late October to early December 2016. In addition, two web-based scoping meetings were held for those who were unable to attend in person.

"This was a great opportunity to interact with the public and they were hungry for information," said Dr. Fred Goetz, a Seattle District fish biologist who attended the Priest River, Idaho, public meeting. "People were waiting outside for the doors to open and came in right at the start. They were look-

ing for opportunities to talk about the operation of the system."

To educate the public, the open-house style meetings included 36 informational stations covering system purposes, the National Environmental Policy Act and topics of interest such as fish impacts, climate change and water quality. At each station agency subject matter experts were available to discuss their respective topics and to answer questions.

"It was a chance for members of the public or tribe to have a real discussion with a subject matter expert who can answer questions, help clarify their understanding and provide detailed information," said Seattle District Tribal Liaison, Lori Morris. "It also was an opportunity for agency representatives to hear local perspectives they may not have considered."

Members of the public also watched an introductory video on Columbia River System Operations and were offered computer stations, hand-written comment forms or a court reporter to provide input.

Public interest in the scoping meetings was high with a wide variety of interests represented and higher atten-



dance in larger metro areas. Impacts to fish was one topic that seemed to energize many participants who held demonstrations at several meetings demanding the breaching or removal of Lower Snake River dams.

In addition to interacting with the public, technical experts had the opportunity to meet and exchange information with peers in other agencies, but responsible for the same system.

"I learned a lot just listening to the Bonneville representative answer questions about mitigation projects they are involved with," Goetz said. "I also learned more about the system reading all the display boards we had out for the public."

Since the public comment period ended February 7, agencies have been

considering comments identifying issues and concerns that could be analyzed in the EIS. Next, they will work toward developing a range of alternatives for long-term system operations and evaluate impacts to resources.

"The people are interested. Many I spoke to have lived in the basin a long time, have seen things change and want to simply talk about what they've experienced and learn more about what we know," said Sara Marxen, hydraulic engineer. "Several expressed to me that they really hope we can find the best solution for all purposes and they recognize how hard it is to balance."

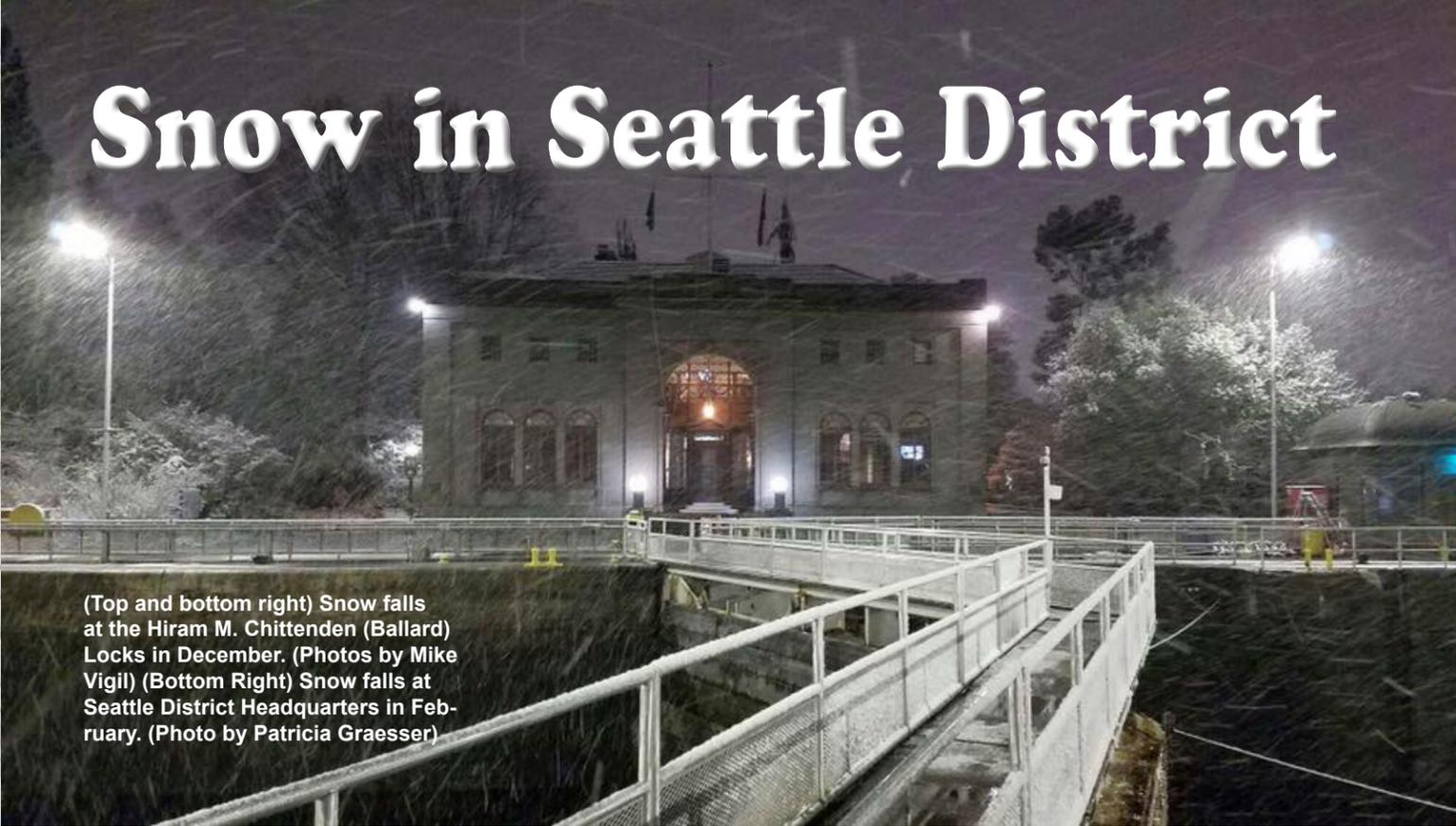
To learn more about the Columbia River System Operations EIS, visit www.crso.info.



(Top) Members of the community enter public comments during a scoping meeting in downtown Seattle, Dec. 1, 2016. (Bottom) Protesters demonstrate outside of a CRSO public scoping meeting in downtown Seattle, Dec. 1, 2016.



Snow in Seattle District



(Top and bottom right) Snow falls at the Hiram M. Chittenden (Ballard) Locks in December. (Photos by Mike Vigil) (Bottom Right) Snow falls at Seattle District Headquarters in February. (Photo by Patricia Graesser)



(Top Left and Middle Right) Fresh Snow at Howard Hanson Dam. (Courtesy photos) (Top Right) Snow at the English Gardens, Seattle. (Photo by Katie McGillvray) (Middle Left) A snowman on the Alki Beach Pier, Seattle. (Photo by Dallas Edwards) (Bottom) Fresh snow at Chief Joseph Dam. (Photo by Ross Emry)



This winter has brought snow across our region. Seattle, in particular, has experienced an unusually cool winter. According to the National Weather Service, this winter has been the coldest in 32 years. Seattle had a total of 10.2 inches of snow in January and February which was even more than Minneapolis, which had 8.4 inches. This is the first time in 48 years Seattle has been more snowy than Minneapolis.

Welcome



TO THE DISTRICT



Kristin Addis
Geologist
General Engineering



Chelcy Bucholtz
Budget Technician
Chief Joseph Dam



Alison Burcham
Environmental Engineer
Engineering Section



Cathy Burns
Admin Officer
Chief Joseph Dam



Frank Crossley
Civil Engineer
Engineering Section



Shaunna Davis
Office Support Ass.
Exec. Office



Brian Eilers
Electronic Craftsworker
Chief Joseph Dam



Ean Espino
Reality Technician
Reality Ops Branch



William Gardener
Risk Assessor
Tech. Services Br.



Sandra Graham
Budget Analyst
Proj. Sup. Branch



Kelly Gunn
Contract Specialist
Contracting



Katie Heard
Biologist
Regulatory Branch



Mike Hines
Rec. Maintenance
Albeni Falls Dam



Alan Holtzheimer
Power Plant Oper.
Chief Joseph Dam



Sara Jackets
Support Con. Spec.
Contracting



Rodger Johns
Pwr Plant Oper.
Chief Joseph Dam



Gregory Johnson
Electrician
Chief Joseph Dam



Joshua Lauterbach
Mechanical Eng
DA Army Intern



Peggy Marcus
Sup NR Specialist
Chief Joseph Dam



Benino Mckenna
Geologist
Geology



Stephen Murdock
Student Biology Trainee
Regulatory Branch



Dawndee Norton
CPAC Director
Human Resources



Alisa Ralph
Biologist
Regulatory Branch



Rodney Ralston
Pwr Plant Electrician
Chief Joseph Dam



Julie Scheid
Auditor
Executive Office



Bradford Schultz II
Equip. Specialist
Ops Support Br



Albert Seghi III
Rec. Maintenance
Albeni Falls Dam



Susan Smoley
Sup. Economist
Planning Branch



Michael Warner
Meteorologist
H&H Branch



Jeffrey Weiss
Geologist
General Engineering



Paul White
Accountant
Resource Management



Rian Yena
Office Sup. Assistant
H&H Branch

Quarterly Awards



Thomas Gay
GS-9 and below



David Cook
GS-10 and above



Jonathan Norquist
Supervisor



Out and About:

The District set up a booth at the Port of Seattle's Fishermen's Fall Festival Sept. 24. PAO staffed the booth and NRM Chief **Peggy Marcus** narrated about the Lake Washington Ship Canal on three free boat tours provided at the festival.

Volunteer Camp Host **Dave Oglevie** ended his service, September 30, at Willow Flats. He has been a tremendous asset to NRM this summer!

PAO coordinated presentation for the local flotilla of the USCG Auxiliary in January.

School program River of Power hosted buses full of 4th graders getting tours of Chief Joseph Dam September 28-29.

Emergency Management Section's, **Catherine Desjardin**, instructed the Flood Fight Operations course for the State of Washington in Snohomish County.

On October 27, Albeni Falls Dam Chief of Tech, **Troy Vandebark**, represented the District at the Eastern Washington University Career Fair.

Staff at Libby Dam hosted the first annual Lake Koochanusa Youth Deer Hunt and camp out for kids 10-15 years old October 19-2, in the Souse Gulch day

use area.

JoAnn Walls represented the Corps at the Northwest Climate Science Conference in Stevenson.

John Hicks reached out to Senior Enlisted Coastguardsmen and Coast guard Officers during a Military to Mariners presentation at the USCG Base Seattle.

Congratulations:

The McChord Resident Office (MRO) welcomes Captain **Grant Wanamaker**. Capt Wanamaker will be assigned for roughly the next year to MRO, and will be serving as a Project Engineer on a new FY17 award. Captain Wanamaker comes to us from Fort Jackson as a company commander for a basic training unit.

Jim Lampman will be assigned as a Quality Assurance Rep (QAR) for MILCON projects executed out of the McChord Resident Office. Jim brings over 30 years of construction experience with him from his days as a Master Chief in the U.S. Navy Seabees. Jim resides in Puyallup with his wife and twin teenage daughters. We are excited to have Jim on the MRO team!

Congratulations to **Chris Collins** (LACPO

QA), who passed the ICC E2 Commercial Electrical Inspector certification exam. Chris was also recently selected as the GS-12 Senior QA for LACPO on a 120-day detail opportunity.

Jinsoo Chris Chung has completed training and has attained Facilities Engineering Level II certification.

Congratulations to the **Chief Joseph Dam staff** who were recently awarded the FCRPS Maintenance Excellence Award by the BPA.

Chief Joseph Maintenance Section received the FCRPS Outstanding Team Performance Award for exceeding both the FCRPS Critical and Non-Critical PM Stretch goals for 5 consecutive years. Way to go **Steve Marchand, Bill Dodson, KC Ayling, Blake Backus, Victor Cline, Dave Elmore, John Gehres, Kyle Green, Ron Haley, Jason McDaniel, Gordon Myrick, Phil Saint and Charles Yusi.**

Contracting Officer, **Jonathon Norquist**, also won FY2016 USACE Excellence In Contracting Awards (ECAP), as well as) ACO (Administrative Contracting Officer) of the Year!

Stephen Munro, Gardener, LWSC, has been accepted into the UW's School of Environmental and Forest Sciences Master of Environmental Horticulture Program.

Bill Dowell won USACE best News Story for the U.S. Army Corps of Engineers Herbert A. Kassner Communication Awards Competition. "Catch of the Day" (originally posted online in November) is reprinted in this issue of Flagship. He will now compete at Army-level.

Deployed:

**Avril Jones
Charles Meno
Chris Jarvis
Natanielle Little
Ricky Petersen
Scott Long
Teresa Boggs**

New Positions:

Mark Slominski, Construction Division Chief
Schelly John and Linda Garza, Civilian Personnel Advisory Center

Retirements:

**Miriam Gilmer
Carla MacLafferty
Steve Wright**

Moving On:

**Tyler Bush
Mike Sangren
Tony Randolph
Eric Anderson
Gerald Quintua**

Better Know a Watersheds and Terrestrial Resources Section



The Watersheds and Terrestrial Resources Section in Environmental and Cultural Resources Branch has both environmental and cultural resources expertise. They work to ensure Corps projects and projects for external customers comply with appropriate environmental laws. From bat surveys, historic building inventories, and military training exercises they tackle a plethora of different types of projects.

The Watershed and Terrestrial Resources Section includes:

Bobbi Jo McClain, Mike Scuderi, Amanda Ogden, Zach Wilson, Beth McCasland, Julie Weisgerber, Hannah Hadley, Melissa Leslie, Rhonda Lucas and Ashley Dailide.