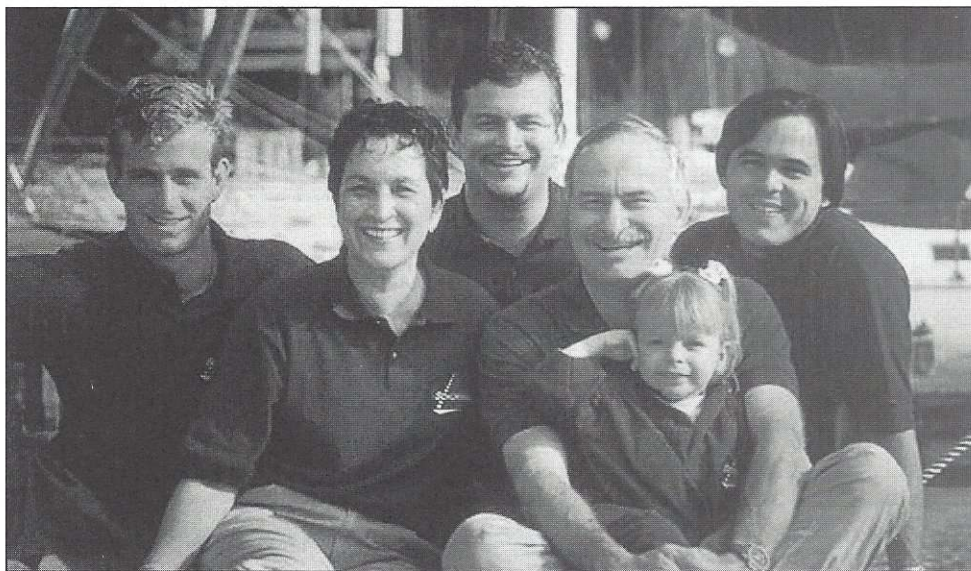


BRAZILIAN ADVENTURE FAMILY USE SIDE SCAN SONAR IN THEIR WORK TO PROTECT OCEANS



The Schurmann family- first Brazilians to circumnavigate the globe

In 1984 husband and wife Vilfredo and Heloisa Schurmann decided to take a trip. 35 year old Vilfredo wanted to trade in his life as a successful businessman and pursue a life of adventure. Heloisa, a NY University graduate and teacher running an English language school with 1,000 students, thought it was a grand idea. The two of them spent the next twenty years sailing around the world with their children and became the first Brazilians to circumnavigate the globe in a yacht. Along the way they visited many countries, had lots of fabulous adventures, and met loads of interesting people.

One was a young girl named Kat that would change the Schurmann's lives in ways they couldn't imagine. She was the daughter of sailing friends. Born HIV positive, her health was frail and she was tiny in size, but she had a huge personality and a zest for life. Her mom passed away when Kat was just a baby and her dad died a few years later. Although Vilfredo and Heloisa had three teenage boys of their own, they made the life altering decision to adopt 3 year old Kat and make her part of the crew. Between the ages of 5 and 8 the little sailor visited 19 countries and became fluent in English, Portuguese, and Spanish. A courageous adventurer, Kat went white water rafting, climbed mountains and

volcanos, swam with dolphins, and learned to scuba dive. Despite all the physical challenges she conquered, her health problems proved too great, and at age 13, just shy of her 14th birthday, she lost the battle with her disease. The family had this to say about their time with her, "...these were the happiest years in our lives. Kat was always very special and left us with more lessons about life than most adults. These lessons have forever changed our lives and the lives of others she touched."

As a tribute to their daughter, who loved the sea, the Schurmanns opened Insitiuto Kat Schurmann, an organization devoted to fostering sustainability and preservation of the oceans and coastal areas. The group's headquarters are in an environmental park at Bombas Beach in Bombinhas, an area known for having some of the most "kid friendly" beaches in Brazil. Part of this conservation effort involves monitoring the health of the country's reefs and marine habitats. To carry out their mission the Schurmanns needed some high tech equipment. Research led them to JW Fishers, known for producing an extensive line of underwater search equipment. After consulting with the company's engineers they decided a side scan sonar (contd on pg 2)

INSIDE...

Page 2 - ROV helps uranium producer plug leak

Page 3 - Government agencies & military units perform underwater searches

Page 4 - "Treasures Found"

Page 5 - Law Enforcement and Dive Rescue News

Page 6 - Company News and New Product Info

THE MAN THAT FOUND NINE HISTORIC SHIPWRECKS

Sten Sjostrand was born in the small town of Landskrona, Sweden. In his early 20's he went to Singapore and sailed all around the Indonesian archipelago. During this journey he developed a keen interest in ancient maritime trade and Asian ceramics.

In the late 80's Sten formed Nanhai Marine Archeology to study trade routes and research the areas's many historical shipwrecks. The South China Sea was a main thoroughfare for ancient shipping linking China, India, the Middle East, and Southeast Asia in an extensive maritime trade system. Nanhai's work paid off when the company located it's first historic shipwreck using a Fisher side scan sonar. What they found were the remains of the Royal Nanhai, circa 1460.

(continued on page 4)



**STEN SJOSTRAND WITH
RECOVERED CERAMIC BOWL**

Adventure family (from page 1) would work best for their reef and habitat survey projects. The sonar produces detailed images of the sea bottom, effectively "removing the water" and giving an unobstructed view of the ocean floor.

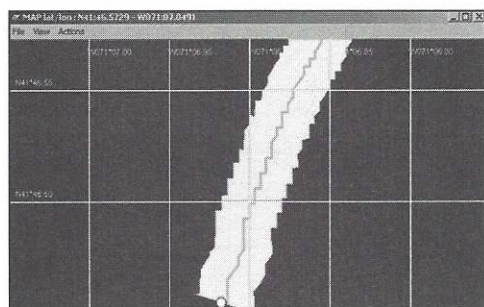
The Schurmann's youngest son Wilhelm traveled to Fishers factory in the US to learn how to operate the side scan.



WILHELM SCHURMANN (L) AND FISHER TECHNICIAN BRIAN AWALT WITH SIDE SCAN SONAR

A short training course was enough to familiarize him with the Sonar View software and operation of the complete system. Optional Map Coverage software was added which opens a window showing the track of the boat and the size of the area being scanned. Seeing the scan swath allows the operator to follow a search pattern that ensures no part of the area is missed.

Wilhelm is now back in Brazil putting the equipment to work. He reports, "We recently spent 3 days at sea mapping bottom details. I am impressed with the sonar's ability to produce the high resolution images we need. It lets us measure the length and height of the reef structure and record its GPS coordinates. We're now ready to begin wide scale mapping operations. I'm convinced this equipment will help us accomplish our goal of preserving the country's marine resources for generations to come". Kat would be proud. **JWF**



MAP SHOWING SONAR COVERAGE

International News

.....SeaPro Diving and Hydrographic Service in Egypt is using Fishers Pulse 8X metal detector and Diver Mag 1 magnetometer for their search and survey work reports Captain Tarek Farouk.

.....U-Boat Worx B.V., a Dutch company specializing in the development of small one and two person submersibles, is using Fishers PR-1 pinger receiver and MFP-1 multifrequency pingers.

.....AAMC Ltd in Thailand, a company specializing in shallow water submarine cable installation and maintenance, has purchased Fishers SSS-100K/600K dual frequency side scan sonar and MC-1 mini camera.

.....Taxon Estudios Ambientales SL in Spain is using Fishers TOV-1 towed video system. The company provides environmental consultant and research services to government agencies and industrial firms.

.....Nigerian oil field services company Digital Horizons recently purchased Fishers SeaLion ROV. They had previously purchased Pulse 8X metal detectors, SSS-100K/600K side scan sonars and SCAN 650 scanning sonars. The company president Akhigbe Irenen visited Fishers factory with staff members to see the equipment and receive training.



DIGITAL HORIZON PRESIDENT (left) AND STAFF WITH SEALION

.....Global Divers and Marine Contractors in West Africa used Fishers Diver Mag 1 to locate a pipeline. Dive Superintendent Buddy Fennessey reports, "Our divers found the pipeline buried under 12 feet of mud. We were very pleased with the performance of the mag."

.....Royal Australian Navy's Hydrographic Office has purchased Fishers MC-1 mini camera reports research officer Colin Ellis.

.....Sweden's Coast Guard is using a Pulse 8X detector for their search operations reports says spokesman Michael Cassaras.

ROV Helps Uranium Producer "Plug a Leak"



CAMECO CORPORATE OFFICE IN SASKATOON, CANADA

Cameco is one of the world's top uranium producers. When one of their mines in Canada began filling with water, company officials were desperate to find a solution. Water was coming in from small cracks in the tunnel ceilings and walls faster than pumps could remove it. Engineers suspected a lake above the mine was the source of the problem. It seemed like there was a huge drain in the lake bottom and it was emptying directly into the mine.

Operations managers wanted to examine the lake bottom, but knew this would be a time consuming and expensive process using divers. Supervisor Randy Frasier contacted a local dive shop which suggested he call JW Fishers. After a lengthy conversation it was decided that an ROV would be the best tool. Mine employees could easily learn to operate the ROV which would allow a 24-7 nonstop search operation.

Within a week the equipment was on site scanning the lake floor. As the ROV swam grid patterns across the lake bottom, the operators began to notice what looked like sink holes in the lake bottom. Engineers felt these could be the drains they suspected were dumping water into the mine. A more thorough examination of the sink hole by a diver would be needed to confirm their theory.

The problem now was how to mark the locations of the numerous sink holes so the divers could quickly and easily relocate them. Another call to Fishers and a solution was found. Acoustic pingers would be carried in the ROV's manipulator and dropped at the edge of each sink hole. (contd on page 5)

GOVERNMENT AGENCIES, UNIVERSITIES, & MILITARY PERFORM U/W SEARCHES

.....University of Alaska is using Fishers SeaOtter-2 ROV as part of their training program in fish and wildlife management.

.....Dalhousie University in Nova Scotia, Canada has purchased Fishers DDW-1 deep dive wing. The wing is being used by the biology department to tow oceanographic instruments at greater depths.

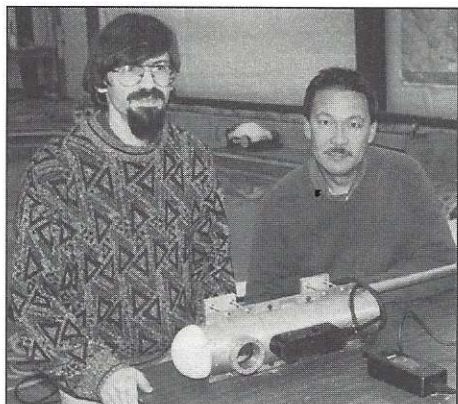
.....US Navy's EOD team at Pt. Muga, CA is using Fishers PR-1 receiver to locate and track acoustic devices.

.....Wisconsin Cooperative Fishery Research Unit (WICFRU) is using Fishers Pulse 6X metal detector. WICFRU provides fisheries and aquatic science research through a unique collaboration of US Geological Survey, WI Dept of Natural Resources, and the University of Wisconsin.

.....US Army Corps of Engineers Hazardous Toxic, and Radioactive Waste Branch has purchased a quality of Fishers Pulse 8X detectors for use in an environmental cleanup project in New Mexico.

.....US Dept. of Alcohol, Tobacco, and Firearms (ATF) Explosive Technology Branch has purchased Fishers Pulse 6X hand-held metal detector for their search operations.

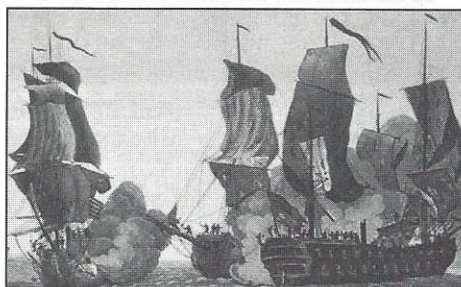
.....Under a contract with the US military scientists from EIC Labs in Massachusetts have developed a towed device which uses a laser beam to measure the amount of pollutants in an oil spill. The instrument is equipped with Fishers UA-2 altimeter.



**SCIENTISTS ANTON SMIRNOV AND
JOE BELLO WITH THEIR DEVICE
EQUIPPED WITH UA-2**

.....Canada's Ministere des Ressources Naturelles in Quebec, the agency responsible for managing the country's natural resources, is using Fishers Pulse 8X metal detector. "We borrowed one from Parks Canada" says the agency's Lyne Bouthillier, "and were very pleased with it's performance, so we purchased one of our own." **JWF**

In Search of the *Bonhomme Richard*



BONHOMME RICHARD SQUARES OFF AGAINST THE BRITISH SHIP SERAPIS

On England's east coast is the town of Filey and Filey Bay. On an autumn evening in 1779 a crowd gathered on Yorkshire cliffs, which overlook the bay, to watch a fierce naval battle being fought between British warships and a small American squadron commanded by John Paul Jones. The fight, which took place during the colonies struggle for independence, has been described as a "brilliant action at sea of classic proportions". Jones' flagship the Bonhomme Richard with 40 guns squared off against the larger British frigate Serapis with 50 guns. The two vessels exchanged heavy fire. Recognizing his ship's inferior strength Jones worked to keep his smaller vessel in close proximity providing a strategic advantage. As the ships moved nearer, Jones' crew threw lines onto the warship and lashed the two together. At the height of the battle, the Alliance, a ship in Jones' squadron, came to help but mistakenly fired and hit the Bonhomme Richard. It is at this point, with his ship heavily damaged and in flames, he's called on to surrender. Jones shouts the now famous words, "I have yet begun to fight!" By the time the clash is finished both ships are heavily damaged and many men on both sides were killed or wounded; but Jones' daring naval tactics had prevailed. The few remaining crewman, helped by released prisoners, manned the pumps and fought valiantly to save the brave little ship, but it was too late. The captain gave the order to abandon ship and the Bonhomme Richard slipped beneath the waves, taking with her many of Jones' personal possessions.

In 1979 an old wood wreck believed to be the Bonhomme Richard was discovered in Filey Bay by Mr John Adams. Radio carbon dating put the wreck in the right time period, but more evidence is needed. One of the items that would provide a definitive answer is the ship's guns. John formed a group the Filey Bay Underwater Research Unit to continue the hunt for artifacts that can help prove the ship is the *Bonhomme Richard*. The investigation has gained the support of (contd on page 5)

COMMERCIAL NEWS

.....Global Remote Sensing in Washington is using Fishers TOV-1 towed video system for their deep water survey operations says project manager Darren Billard.

.....Taylor's Diving Service in Texas is using the Pulse 8X detector with the boat-deployed 18" coil to locate and track pipelines. "The detector is going a great job for us", says Ron Taylor.

.....Hong Kong Marine Construction is using Fishers cable tracking system. Operations supervisor Kevin Chan reports, "Your CT-1 helped us locate and track three in-service fiber optic cables in a deep water bay."

.....Midwest Diving in Iowa is using Fishers MC-1 mini camera. "The camera helps topside tenders see what the diver is working on below", says project manager Andy Zinn. "It really works well."



**WJ CASTLE & ASSOCIATES NEW
SIDE SCAN OPERATORS RICK PA-
RISI & GREG McGRATH**

.....Marine engineering company W.J. Castle & Assoc. in New Jersey has purchased Fishers SSS-100K/600K dual frequency side scan sonar with optional map coverage software. The firm specializes in structural and civil engineering. They design, build, replace, and repair bridges, piers, docks, underwater cables, and more. Two of the company's techs were sent to Fishers factory for training. The first project for the sonar was scanning a collapsed bulkhead at a seaside condominium to determine the extent of damage before repair work could begin. The company is also a long time user of Fishers CT-1 cable tracking system.

.....Underwater Construction Corp. in Michigan is using Fishers Pulse 8X metal detector to locate pipelines, cables, and lost objects says supervisor Willie Lee.

.....American Marine Corp in California is using the Pulse 8X detector to locate and track pipelines says operations supervisor Wade Bliss. **JWF**

NINE WRECKS FOUND

(continued from pg 1)

The site had numerous artifacts and an extensive collection of Chinese ceramics. That same year the company located two more wrecks, the Nanyang (c1380) and the Nuande (c1540). After each shipwreck discovery the company requested government permission to excavate. They followed detailed marine archaeological procedures in mapping the ship's remains and recovering artifacts. Nanhai and the government shared the finds in a prearranged percentage.

Over the next 7 years Nanhai located 6 more historic shipwrecks; the Longquan (c1400), the Turiang (c1370), the Singtai (c1550), the Desaru (c1830), the Tanjong Simpang (c960 - 1127), and the Wanli (c 17th century). Many millions of dollars in artifacts and ceramics have since been recovered from these wrecks.

In an ironic twist of fate, the wreck hunter



SOME RECOVERED CERAMIC BOWLS

became the shipwrecked. One day on the way back to port in his boat the Cadenza, from which he had made all the discoveries, the vessel struck a submerged log that left a gaping hole in the hull. Within minutes she went to the bottom, taking with her all the wreck hunting instruments. Luckily Sten managed to jump into a small launch before the Cadenza went down. "I've seen more than 200 shipwrecks" he says, "then one day its you!"

Nanhai has now acquired a new vessel and purchased a new side scan sonar from Fishers. The new sonar is state of the art technology. Images are displayed and stored on a laptop, and GPS coordinates are captured with all of the side scan data. Mapping software shows the track of the boat as it moves over the search area.

Sten continues his quest to uncover another piece of history. "It's only a matter of time before we find our 10th shipwreck", he says with a wide grin.

JWF

.....FROM THE TREASURE CHEST



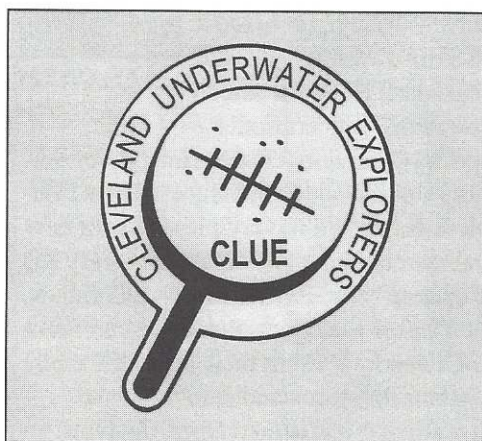
PAUL KENJERSKY WITH HIS PULSE 8X

.....New York diver Paul Kenjersky is having lots of fun with his new Pulse 8X. My most recent find was an oarlock", Paul writes. "Which may not sound too exciting, but when I started to uncover it, I found it was still attached to a 30 year old wooden boat buried under several feet of muck in the lake bottom.

.....North Dakota treasure hunter Randy Miller reports he found 5 gold rings with his Pulse 8X detector hunting in the Red River. "I love my detector, and the people at Fishers have been great to work with."

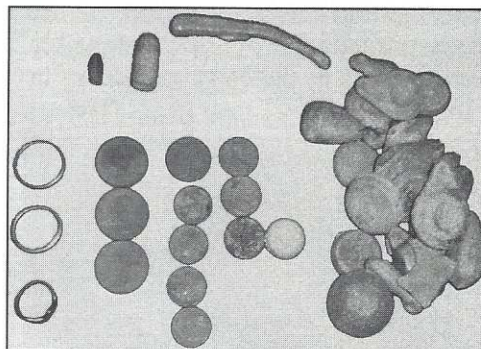
.....Floridian Charles Debski reports making a nice find with his Pulse 8X. "My latest recovery was a beautiful gold ring with 9 diamonds, it was a great find!"

.....Cleveland Underwater Explorers, a nonprofit group dedicated to shipwreck research, discovery, exploration, and documentation, is using Fishers Proton magnetometer reports deputy director Kevin Magee. The group is currently working with the National Parks Service on a project to locate and survey an underwater site with wrecks from a naval battle fought on Lake Erie during the War of 1812.



CLEVELAND U/W EXPLORERS LOGO

.....Ohio treasure hunter Tim McPhillips reports, "I was suiting up to go out metal detecting with the Pulse 8X at my favorite beach when an old timer stopped by to chat. He said the beach was hunted out years ago and I was wasting my time. I told him I had been detecting that particular beach for over 20 years. Well, that day I found; one silver ring, one 14k white gold ring, one 14k yellow gold ring, and many coins. I think I had a pretty good day. I hope all the beaches are hunted out like this one. Thanks for making a truly great detector!"



FINDS MADE BY TIM McPHILLOPS WITH HIS PULSE 8X DETECTOR

.....Wreck hunter Jeff Protic reports he has made a find "somewhere in the Bahamas" using his Fisher Proton 4 magnetometer. Preliminary investigation of the site revealed 17th century bottles, cannon balls, lead sheathing, fire bricks, and iron ship pins.



CHUCK LONG DIVING "WARM WATER" WITH HIS PULSE 8X DETECTOR

.....Virginian Chuck Long really enjoys hunting with his Pulse 8X detector, and finds it even more fun in the warm water of the Caribbean, where the remains of many wrecks lie waiting to be found.

.....Vitaly Latartsev in Russia writes, "The Pulse 8X has been working perfectly for 5 years. It was especially effective in our underwater archaeology work. With its help we have found hundreds of coins from the 1st through the 3rd centuries."

JWF

IN SEARCH OF (contd from pg 3)
public and private sectors, and the expanded group has now become the Filey Bay Initiative. Better staffed and funded the group has been able to acquire new technology to assist in their efforts. One of the first pieces of search equipment they purchased was Fishers Proton 4 magnetometer, a super sensitive detector of iron and steel.

Armed with this high tech gear it shouldn't take long to confirm the location of the ship's iron remains and let the archaeologists begin the work of mapping the site and recovering artifacts. The hope is to find some of the lost personal effects of the man called the father of the American Navy and whose body is interred in a bronze and marble sarcophagus at the Naval Academy in Annapolis, MD. **JWF**



MEMBERS OF FILEY BAY INITIATIVE WITH THEIR PROTON 4 MAG

URANIUM PRODUCER (contd from pg 2)

Pingers transmit a sonar signal that is detected using a gun-type device called a pinger receiver. The diver carrying a receiver can pick up the signal and be guided directly to the pinger.

The company ordered a quantity of pingers and a receiver. Within days the ROV was back swimming grids across the bottom dropping pingers wherever there was a hole. Later divers located the pingers and holes, and were quickly able to confirm the engineers' suspicions. Mine officials prepared a plan to plug the holes which proved very successful. Water flowing into the mine was dramatically reduced allowing them to quickly get back into full operation. **JWF**



ROV WITH PINGER IN MANIPULATOR

LAW ENFORCEMENT AND DIVE RESCUE NEWS

.....Palm Beach County Sheriffs Office in Florida is using Fishers Pulse 8X metal detector for their search and recovery operations.

.....Mobile County Emergency Management Agency in Alabama is using Fishers SSS-600K side scan sonar with Splashproof computer. Reports Deputy Victor Smith with Mobile PD, "We were training with the system in an impoundment that was flooded years ago, submerging roads, bridges, and homes. We got some very interesting images of an old wood plank bridge in 25 feet of water. The detail is incredible."

.....Harrisburg River Rescue in Pennsylvania has purchased several of Fishers MFP-1 acoustic pingers and the PR-1 pinger receiver. "We'll be attaching the pingers to our divers", says spokesman Bud Kaufman. "If one of them should get into trouble we can quickly locate the diver in distress."

.....Loveland Fire Rescue in Colorado is using the Pulse 6X detector in their search operations. "The detector is working great", reports diver Shawn Williams.

.....Jamaica's Coast Guard is using the Fishers SeaLion ROV to inspect ships for drugs and explosive devices that may be attached to the hull. It is much easier and safer to deploy the ROV than a diver reports Lt. Yee Sing.

.....Muscatine County Sheriffs Dept in Iowa has purchased a Pulse 8X detector with the 8 x 48 boat-towed coil for evidence recovery.

.....Jersey City Police Dept. in New Jersey purchased a SSS-100K/600K side and SeaLion-2 ROV for search operations. Officers from the

Special Operations Bureau Emergency Services Unit attended a training session at Fishers factory. "We're very pleased with how well the equipment works and how easy it is to operate", said P.O. Michael McCormack.

.....Denver Fire Dept. Water Rescue Team in Colorado is using their Pulse 8X metal detector for search and recovery.

.....Thurston County Sheriffs Dept in Washington is successfully using their Pulse

8X detector to locate weapons and other evidence reports Lt. Greg Elwin.

.....Sheriffs Dept. Dive Team in Orange County, California recently purchased their second Pulse 8X detector.

.....Louisville Police Dept. in Kentucky is using Fishers SSS-100K/600K dual frequency side scan sonar and Proton 4 magnetometer for their underwater search operations.

.....Baxter County Sheriffs Dept. in Arkansas has purchased Fishers SSS-100K/600K side scan sonar for their underwater search operations. The department has been a longtime user of Fishers TOV towed video systems.

.....Baltimore County Police Dept in Maryland is using two of Fishers Pulse 8X metal detectors for their search and recovery operations.

.....Paducah McCracken County Dept. of Emergency Services in Kentucky is using the Fishers Diver Mag 1 hand-held magnetometer to locate submerged vehicles and sunken boats.



LT. CHRIS YEE SING OF THE JAMAICAN COAST GUARD WITH THEIR SEALION ROV

.....California Highway Patrol's Department of Homeland Security has purchased the Pulse 8X metal detector for their underwater search operations.

.....Texas Dept. of Public Safety Dive Recovery Team is using the Pulse 8X reports team leader Charles Goble. "We were previously using another brand of detector, but they weren't holding up. The FBI recommended the 8X."

COMPANY NEWS and NEW PRODUCTS

From the mailbag...

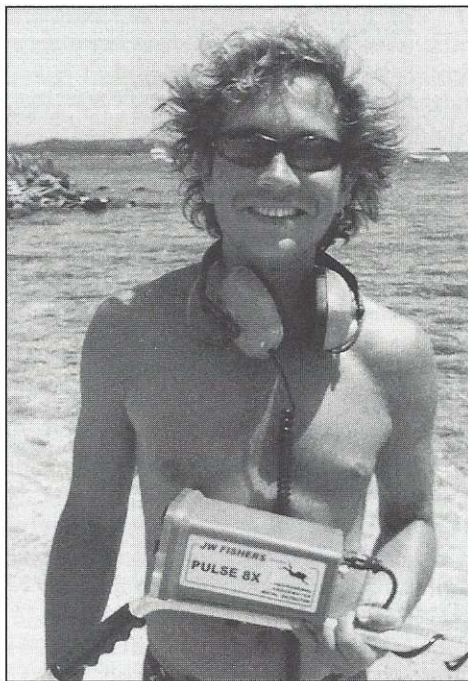
.....Scott Dickerson of Pompano Bch, FL writes, "Just a quick note of appreciation for your outstanding customer service in promptly shipping the exact parts I needed for my Pulse 8X after personally answering my phone call. In this day and age it is a true pleasure to own such an excellent piece of equipment backed by such an exceptional company that evidently remains very dedicated to their customer's satisfaction."

.....Jim Larock of Norfolk, NY writes, "You need to give the Pulse 6X more credit in your flyers. I've had mine for 3 years and would not change a thing. It has been awesome!"

.....Ben Potter with the U.S. Navy's Under-seas Warfare Center writes, "Your willingness to accommodate the needs of our program was outstanding. Having received the product, the workmanship is terrific. We look forward to doing more business with you in the future."

.....Charles Gooble with the Texas Dept of Public Safety reports his team had been using metal detectors from another manufacturer, but they just weren't holding up. "Recently the FBI dive team came in to assist us in an investigation. They brought with them several Pulse 8X detectors. We were very impressed with the performance of these machines, so we purchased one of our own. After running the detector through extensive field tests, we've decided to acquire additional units".

.....After having his detector serviced at Fishers factory, Peter Luterek in St. Johns, Virgin Islands writes, "I will most definitely never forget this experience. It was fantastic! The professionalism, customer service and support of JW Fishers Mfg is superb. You guys are the best. Anyone I encounter through my adventures that wants to get involved in underwater search, I will highly recommend you and your products." He finishes with, "P.S. I love my Pulse 8X."
JWF



**VIRGIN ISLANDS TREASURE HUNTER
PETER LUTEREK LOVES HIS PULSE 8X**



New Housing Option for Pingers

Pingers are signalling devices that can be attached to an underwater site or instrument so it can be relocated using a gun-like receiver carried by a diver.

A new larger housing option is now available for Fishers acoustic pingers. The Very Long Duration housing is significantly larger than the standard housings to accommodate more batteries which dramatically increases operating time. The Very Long Duration pinger operates 12 times as long as the standard pinger.

Fishers pingers have been a hit with a diverse group of users that includes universities, law enforcement agencies, military units, environmental groups, and the commercial marine industry. The applications for these acoustic beacons are almost as varied as the users. Environmental groups put the pingers on monitoring equipment, universities are attaching them to autonomous vehicles, military units mark explosive devices, and public safety dive teams use them to keep track of divers in the water.
JWF

If you have a story you would like to share, send us a photo and write-up, or call Chris or Jack at (800) 822-4744 or (508) 822-7330. Send faxes to (508) 880-8949, email: jwfishers@aol.com or visit the website at www.jwfishers.com.

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