

# SEARCH TEAM NEWS

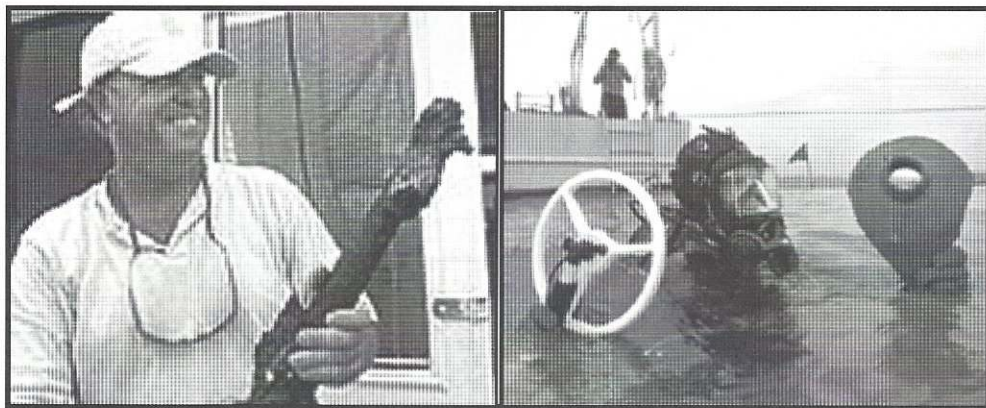
JW FISHERS MANUFACTURING INC.

**JW**  
FISHERS

UNDERWATER SEARCH NEWS

ISSUE 17-1

## TEAM LOCATES 1612 SPANISH GALLEON, EXPECT TO FIND \$1 BILLION IN TREASURE



### TREASURE HUNTER JOEL RUTH, DIVER FINDS PIECES OF WRECK

A group calling themselves Los Caballeros Aventureros or The Gentlemen Adventurers has located the remains of a 17th century Spanish galleon off the coast of Ecuador. Led by diver and archaeologist Joel Ruth the team believes they have found the Magdalena, the second of a three ship convoy that carried pesos, silver, and other treasure.

"It's gold fellows, pure gold", shouts diver Haig Jacobs as he emerges from a dive on the wreck. He opens his palm revealing a spool of pure gold thread protruding



from a lump of volcanic mud. The group is using a variety of high tech underwater search equipment including Fishers metal detectors and a magnetometer. First a mag survey was performed, then a magnetic map of the area was created to show where the concentrations of iron objects, like anchors, cannons, cannon balls, and other weapons stores were buried.

Ruth reports, "To date we have discovered 26 arquebuses (a musket like

weapon used from the 15th to 17th century). Some are in a remarkable state of preservation."

What the mag survey couldn't tell them was where the treasure was hidden. A decision was made to bring in Fishers Pulse 10 boat-towed metal detector to search for gold, silver, and other nonferrous objects. The area was resurveyed using the Pulse 10.

"We are currently working an area that registered one hit with the mag and five with the metal detector", says Ruth. "I believe this area contains mostly the forward hull

material. Once we complete excavation of this site we will begin trenching diagonally towards another huge mass which was detected by the Pulse 10. The anomalies there are exclusively nonferrous as the mag registered nothing at that location."

The next day a message was sent, "Today we uncovered a chest!" But the chest turned out to be more of a case. "All this work is taking place in zero visibility by braille search techniques,

Contd on page 2

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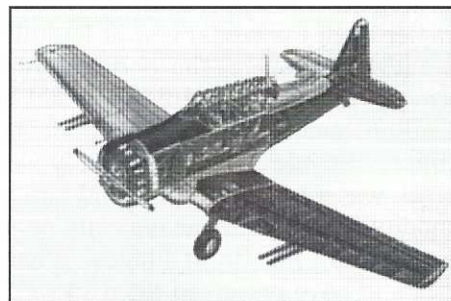
**Page 6** - Company News and New Product Info

### CANADIANS SEARCH FOR MISSING WWII AIRCRAFT

In 1941 the skies over Belleville, Ontario were filled with planes and pilots training for World War II aerial combat. On Feb 15 Pilot Officer JF Mackie died while attempting unauthorized aerobatics in his Harvard Mark I aircraft. The plane went into a vertical dive, then crashed through the ice in the Bay of Quinte.

Sixty five years later a search team composed of divers from Canada's Harvard Aircraft Association and Ed Burt of Ocean Scan Systems in Belleville are searching the bay using Fishers side scan sonar in an attempt to find the wreckage of Harvard #1344.

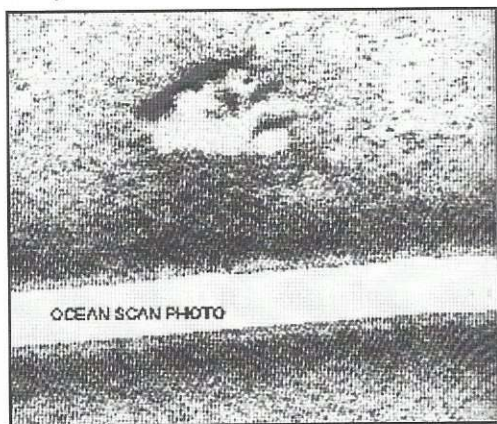
The investigation began as most do, with stories and rumors. Searching the Canadian National Archives, the team located crash reports and eye witness accounts. This helped them narrow and better define the search area. While some pieces of the aircraft were recovered at the time of the crash - (contd on pg 2)



HARVARD M1 AIRCRAFT C1941

**Missing Aircraft** ( from page 1)  
the main fuselage had sunk to the bottom of the bay.

After confirming the validity of the reports, the team shifted their attention to conducting a search of the most likely area. Although the water was shallow, the visibility was extremely poor due to the muddy bottom and the large summer algae bloom. They quickly realized a large scale search by divers would be impossible. The sonar became the essential tool in the search. Unaffected by the low visibility, the sonar could produce detailed images of the bottom and any object lying there. It wasn't long before the team came up with a sonar image that showed a major disturbance on the bottom that could easily be the crash site



**SIDE SCAN IMAGE OF SUSPECTED CRASH SITE OF THE HARVARD MARK I**

The group has obtained a license from the Ontario Ministry of Culture and is now planning to dive on the what they believe is the fuselage of Pilot Officer Mackie's Harvard Mark 1 aircraft. Says one excited member of the team, "it won't be long before the wreckage of his aircraft is identified, surveyed, and its mysteries revealed".

**BILLION \$ TREASURE** (contd frm pg 1)  
so you will have to forgive our earlier estimations of what was then still mostly buried in clay."

As it turned out the case is made of red mahogany and appears to be filled with rapier blades (swords) ...or at least that is what's showing at the end we chipped away. The interesting thing is that these foils are stainless steel and in perfect condition. Stainless steel, especially Toledo steel, was a very expensive and rare commodity in 1612. It was typically reserved for making the finest blades. What appears to have preserved them so well is a large iron spike that fell on (contd pg 4)

## INTERNATIONAL NEWS

.....Commercial Dive Service Ltd. in Tortula, BVI is using Fishers Proton 4 magnetometer and Pulse 8X metal detector for their underwater search operations. Says owner Chris Juredin, "We use the mag weekly. It's great for those large tasks like recovering ship anchors, chains, etc., and obviously cannon by the dozen. The 8X is perfect for those small jobs like finding propellers and locating moorings."

.....Hull Diving Services in Manama, Bahrain has purchased their second MC-1 mini camera with two external 100 watt lights. "The MC-1 we purchased last year is doing such a great job for us, we decided to get another one" says operations supervisor Ross Powell.

.....Japanese marine services company Takuyo Corp has purchased Fishers SeaLion ROV with SCAN-650 scanning sonar. "The remote controlled camera saves time. We can perform many inspection operations without using divers. The sonar is very helpful in navigating underwater. We can see objects on the sonar long before they are visible on the video monitor", says Tetsuya Matsuda.

.....Arrecife Divers in Caracas, Venezuela is using the MC-1 with internal ring light for their commercial diving operations. Reports Gian Marco Assandria, "We can mount the camera on the diver's helmet so the topside crew can see what he's working on, or he can carry the camera in his hand to inspect a seawall or a ship hull. We really like the flexibility."

.....Marin Foto Nygaard in Rong, Norway purchased several of Fishers MC-1 mini camera systems with internal ring light. "The cameras are mounted on the diver's helmets", says owner Jan Erik Nygaard. "They work very well."

.....OES Ltd, a marine services company in Melbourne Australia, is using Fishers Proton 4 magnetometer with Tracker II software for their search and salvage operations. "The mag works bloody great!" says owner John Lincoln.

.....China ORE Ltd. in Qindao purchased Fishers DHC-1 diver held camera system to inspect ship hulls and other underwater structures. **JWF**

## SIDE SCAN SONAR HELPS IN HURRICANE CLEAN-UP



**MIKE COLLINS STUDIES SIDE SCAN PRINTOUT OF HARBOR SURVEY**

Most people know how badly hurricane Katrina ravaged the city of New Orleans, but many aren't aware that the gulf coast of Mississippi was also devastated. Mike Collins of Destin, FL is one of the people helping in the clean-up effort.

"I couldn't believe my eyes when I first arrived in Gulfport and saw the damage", Mike reported. "The tallest thing standing along the beachfront were the cement slabs where homes once stood." I saw trailers that were washed 4 miles inland. People were living in tents. The bridge to Port St. Louis looked like an atom bomb had hit it. There wasn't a single piling along its three and half mile span that wasn't damaged."

Mike has been very busy using his Fisher SSS-100/600K side scan sonar to survey harbors and waterways around the city of Gulfport. When he began surveying, it seemed there was no end to the amount of debris littering the bottom. There were boats of all sizes, cars, trucks, pieces of trailer homes, and tons of other junk. In the old days when storms hit and carried debris into the waterways, they would drag hooks around to find it and pull it up. But Katrina put so much junk in the water, it would far too time consuming to do it the old way. A new and better technology was needed. This was the main reason city officials decided to hire Mike and his side scan sonar.

"I brought over a trailerable catamaran to tow the side scan. It's perfect for the shallow water of the harbor and inland waterways. I set the side scan on the 600K frequency and lowered the fish just a few feet under the surface. This worked perfectly and gave me great images of the bottom. You could easily see how each target was laying. The objective of the cleanup was to remove anything larger than a 5 gallon pail. I would take the engineers (contd on pg 5)

## GOVERNMENT AGENCIES & MILITARY UNITS PERFORM UNDERWATER SEARCHES

.....Massachusetts Board of Underwater Archaeological Resources has purchased Fishers Pulse 8X detector to investigate submerged historical sites. Office spokesman Victor Mastone cites Fishers reputation for making quality underwater search equipment as one of the primary reasons they chose the Pulse 8X.

.....Naval Underseas Warfare Center in Newport, RI has purchased Fishers CT-1 cable tracking system. According to a spokesman the equipment will be used to locate submerged power and communications cables around the base in Newport and at other Navy facilities.

.....US Navy's EOD Technology Division in Indian Head, MD and the EOD Mobile Unit 11 in Silverdale, WA have both purchased Pulse 8X detectors to search for underwater explosive devices. EOD diver John Groat reports, "We've been completely satisfied with the operation of the 8X."

.....Australia's Navy has purchased a quantity of Fishers Proton 4 boat-towed magnetometers with Tracker II software and UA-2 altimeters for their search and salvage units.



**PNA OFFICER LEVATTO (right) WITH PATRICIO NICOLETTI (center) AND FISHER TECHNICIAN BRIAN AWALT**

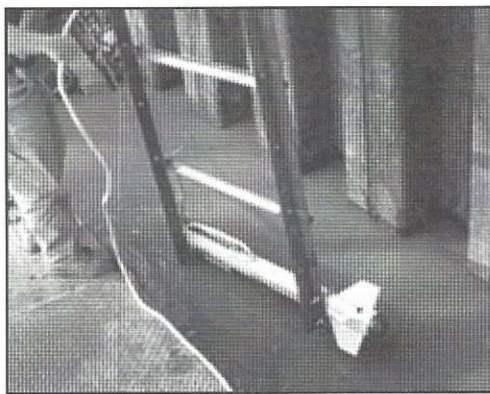
.....Argentina's Perfectura Naval (PNA) are using Fishers dual frequency side scan sonar and SeaLion ROV for their underwater search operations. Fishers Argentinian distributor Patricio Nicoletti, who came to Fishers factory with Naval officer Fernando Levatto to receive training reports, "PNA recently discovered and inspected a wreck in the Parana River with the SeaLion. They are very happy with the performance of the ROV."

.....Newfoundland and Labrador Hydro in St. Johns, Canada is using Fishers DV-1 drop video system for their dam inspection operations.

.....France's Centre d'affaires "La decouverte" has purchased a large quantity of Fishers SFP-1 single frequency acoustic pingers and PR-1 pinger receivers.

.....NOAA Coastal Services in Charleston, SC is using Fishers TOV-1 towed video. **JWF**

## MISSOURI CO. SUCCESSFULLY SURVEYS DAM WITH SIDE SCAN



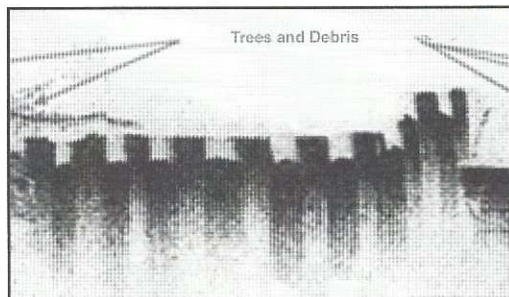
### **SPECIAL BRACKET IS CONSTRUCTED TO SURVEY DAM FACE WITH SONAR**

Three Rivers Diving in Pacific, Missouri bought Fishers SSS-600K side scan sonar to perform an inspection on a dam face. Says owner Steve Phillips, "The clarity of the water was very poor making it impossible to do a visual inspection. We realized sonar would be the best tool for the job."

Steve went to Fishers factory to see a side scan in operation. The technicians took him out on a local river and showed him what submerged objects looked like on the side scan printout. Scanned targets included an automobile, a pickup truck, and a corrugated seawall similar the face of the dam.

After seeing the images the side scan produced Steve was impressed. "I couldn't believe the detail in the printouts. You could actually see the ridges in the bed of the pickup. And the image of the seawall was perfect."

Steve's team constructed a special bracket to move the side scan fish across the dam face. The stable platform ensured a clear, high resolution printout. Officials at the dam were very pleased with survey results. The company has since successfully completed a number of other side scan projects including finding a lost vehicle in a river and doing a survey project for a barge company. "I'm really happy with the performance of the sonar!", Steve reports. **JWF**



**SONAR PRINTOUT OF DAM FACE**

## COMMERCIAL NEWS

.....Indian Underwater Robotics Society (IURS) has purchased a MFP-1 multifrequency pinger. The pinger will be mounted on an autonomous underwater vehicle the group is constructing. The AUV will be entered into a competition sponsored by the US Navy's Office of Naval Research. Society president Anuj Sehgal writes, "All of us at IURS appreciate the great service and outstanding product Fishers supplied."

.....Annor Diving and Underwater Repairs, a commercial diving company in Aruba, has purchased the MC-1 mini camera with high intensity LED ring light. "We will use the camera to film our underwater repair work and show our clients what was done", says owner Orlando Sint Jago.

.....Seaway Diving and Salvage in Waterford, NY is using their Fisher SSS-600K side scan sonar with laptop computer and SONAR VIEW software for their underwater search and salvage operations reports owner Kevin Lengyel.

.....Arizona Diving Services in Lake Havasu City has purchased Fishers Pulse 8X metal detector, Proton 4 magnetometer, and SSS-100K/600K side scan sonar. The equipment will be used for search and recovery of sunken vessels, outboard motors, lost jewelry, and other objects in Lake Havasu says owner Robin Scory.

.....Marine Technologies, a marine services company in Baltimore Maryland, is using Fishers CT-1 cable tracking system to locate power and communication cables says owner Pat Donovan.

.....Aqua Survey in Flemington, NJ is using Fishers Pulse 8X hand-held detector and Pulse 12 boat-towed detector to locate unexploded ordnance, pipelines, and a variety of other objects says Ken Hayes. "The detectors are doing a great job for us."

.....Infrastructure Engineers in St. Cloud, FL purchased Fishers SeaOtter ROV to perform a bridge inspection project. "Despite the current and poor visibility in the water around the support structure, the ROV performed very well", reported Dave Reser.

.....Construction Solutions Int'l in Theodore, AL used their Pulse 8X detector to locate a lost anchor deeply buried in mud. Jerry Bailey says, "The 8X found the anchor very quickly, saving us a lot of dive time."

.....Borgata Ltd. in the Czech Republic is using their Pulse 8X detector with the optional 8 x 48 coil mounted on the front of a vehicle to clear unexploded ordnance from WWII before a highway is put in. Says owner Jiri Chladek, "The detector found 3 mortar bombs last week". **JWF**

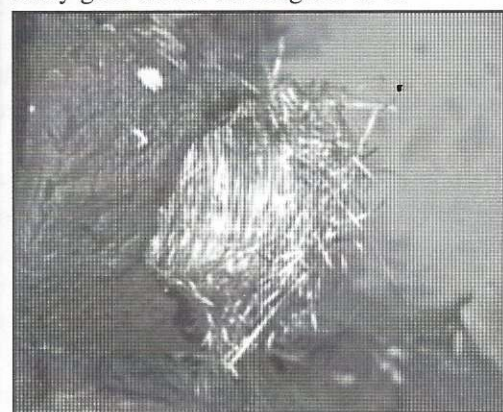
## BILLION \$ TREASURE (contd from pg 2)

top of the case and acted as a sort of sacrificial anode, bearing the brunt of the sea's galvanic electrolysis process while sparing the contents of the case. The nails holding the case together appear to have performed the same function. The entire concretion may eventually be dissolved in muriatic acid and the contents extracted and conserved."



### RECOVERED MAHOGANY CHEST

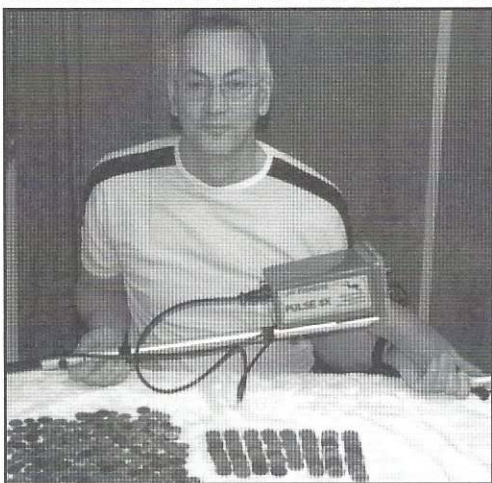
"After removing the box the entire excavation still gave a positive reading for non-ferrous metal so the diver continued to blow away the clay with a high pressure hose. After trenching two feet deeper what he discovered was a concentrated mass of shipwreck material which appears to be several yards wide and at least 8 inches to a foot thick. He cleared quite a big patch, and again due to zero visibility he was unable to determine what exactly was there. After groping around a bit he felt a small piece that could be carried to the surface. What he came up with was a hand full of mud and a spool of shiny gold thread sticking out of it!"



### GOLD THREAD IN A LUMP OF MUD

The weather has now taken a turn for worse keeping us from getting back on site. As soon as it breaks we'll be back on site searching for the treasure we know is hidden there." JWF

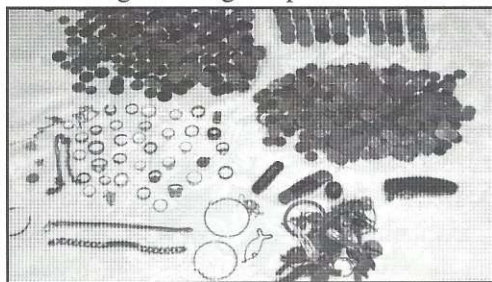
## FROM THE TREASURE CHEST .....



### LAURENT LATIEGNE WITH HIS FINDS AND HIS PULSE 8X DETECTOR

.....Canadian diver Laurent Latiegne writes, "Last year I bought a Pulse 8X detector. I already had a detector, but I heard how good the 8X is and decided to buy one. I brought both detectors with me on a 10 day camping vacation near Lake Simcoe. The first day I went to the beach and brought my "other" detector. I worked the beach all morning and had some luck, but I was disappointed with the small number of finds. After lunch I took the Pulse 8X and went back to the same beach. This time I found many more coins and several rings. I couldn't believe how sensitive it is, and you don't have all the adjustments to fiddle with like my other detector."

"For the rest of my vacation I only used the 8X. The amazing thing is that I kept finding coins and rings where others had already been with their detectors. At the end of the week we traveled to Georgian Bay. I was pretty discouraged when I saw eleven people in the water metal detecting. But by the end of the weekend I had found 26 gold and silver rings, 87 one dollar coins, 27 two dollar coins, over \$300 in quarters, dimes and nickels, a gold chain, some gold earrings, two silver bracelets, and much more. Enclosed is a picture of my finds. Thank you for making such a great product!" JWF

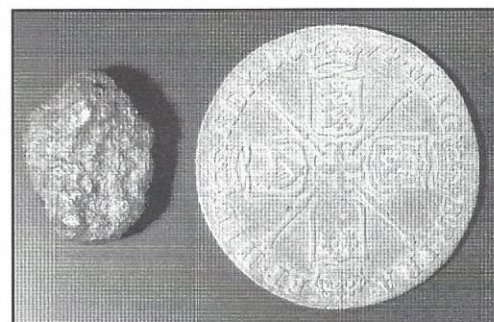


.....Brian Holmes has lots of fun diving on shipwrecks off the coast of Massachusetts. In the early 1900's a ship wrecked every week in the shallow waters around Cape Cod. "I find all kinds of interesting things using my Pulse 8X metal detector", Brian says. JWF



### BRIAN HOLMES WITH HIS PULSE 8X

.....Virgin Islands treasure hunter Barry Shipman reports, "Although I have found lots of jewelry and coins with my Pulse 8X, I had never found the holy grail of metal detecting; a "real" gold coin - that is, until now. I had previously recovered two gold coins, but they were already mounted in bezels, so they don't count."



### GOLD NUGGET AND COIN RECOVERED BY BARRY SHIPMAN IN VIRGIN ISLANDS

"I was really excited when I finally found my first "real" gold coin. It's slightly larger than a quarter and thinner than a dime, but it weighs 8.3 grams. I did some research and discovered that it is an English milled coin called a guinea used in the late 1600's."

Barry went on to say, "I also found a 5.2 gram gold nugget while snorkeling at a less popular beach." JWF

## LAW ENFORCEMENT AND DIVE RESCUE NEWS

.....Colbert County Emergency Management Agency in Alabama is quite happy with their choice of a Fisher side scan sonar with ultra-bright splash-proof computer for their search operations. Team member David Reid reports, "We tried out our new SSS-600K today and were all very pleased with how well it worked. After only a few minutes of working with the sonar we were able to clearly identify a number of submerged objects."

.....Baxter County Sheriffs Office in Mountain Home, Arkansas has purchased another underwater camera system from JW Fishers. Lt. Rick Lucy reports, "Our team has been using the TOV-1 towed video systems and DV-1 drop video for over 15 years. We have been involved in searches for drowning victims all over Arkansas and even parts of Missouri. Every victim was located with these cameras."

.....Delaware River Port Authority is using Fishers SeaLion ROV to inspect the hulls of vessels entering the port and also to perform security checks on underwater structures around the harbor.

.....Connecticut State Police have purchased another Pulse 8X detector. "We use these detectors for all of our underwater evidence recovery operations", reports trooper David Brundage. "They really stand-up well in the tough conditions we often have to dive in."

.....Knox County Sheriff's Dept. in Knoxville, TN is using the Pulse 8X detector for their underwater search operations reports Sgt. Alan Merritt. "The detector is very sensitive and real easy to operate."

.....Bettendorf, IA Fire Dept. is using a Pulse 8X detector for their underwater search operations.

.....Thurston County Sheriffs Office in Olympia, WA routinely use their Pulse 8X detector for evidence recovery work says Sgt. James Dunn.

.....New York State Police have added another piece of JW Fishers gear to their arsenal of underwater search equipment - a SeaOtter ROV. The dive team has been successfully using Fishers metal detectors for many years says Sgt. Al Garcia.

.....Morehead-Rowan County Rescue Squad in KY is using Fishers TOV-1 towed video system for their search operations.

.....NJ State Police have purchased a quantity of Pulse 8X metal detectors and MC-1 mini cameras for their dive team.



### POLICE AND FIRE FIGHTERS FROM WILMINGTON, DE, COMPLETE SIDE SCAN TRAINING AT FISHERS FACTORY

.....City of Wilmington Delaware Emergency Management Office has purchased the SSS-100/600K dual frequency side scan sonar. A group of police officers and firefighters from the city came to Fishers factory for a day of free training that is provided with each sonar system. All agreed the side scan was easy to operate and would help make their search operations faster while reducing risk to divers.

.....Delaware's Emergency Management Agency purchased a quantity of Fishers SSS-600K single frequency side scans. The sonars are in use by search teams from around the state including Seaford, Blades, Laurel, Millville, Millboro, and Selbyville. "We're really pleased with the purchase of these sonars and the support received from JW Fishers", reports team coordinator Ron Marvel. "The side scan is user friendly and easy to operate. Our teams routinely spot the wire mesh crab traps on the bottom."

.....North Carolina Underwater Rescue Team has purchased a Pulse 8X detector for their search ops. Says team leader Chuck Elltin, "We're completely satisfied with the 8X and it is now a part of our bag of tools that make life easier. It certainly shortens the time spent underwater."

.....Massachusetts State Police have purchased a quantity of Pulse 8X detectors and Diver Mag hand-held magnetometers for their dive teams.

.....Superior Police in Superior, WI are using the SeaOtter ROV for their underwater search and inspection operations reports Detective Thomas Champaigne.

.....Washington, DC Metro Police are using the Pulse 8X detector for their underwater search operations. **JWF**

(hurricane cleanup - contd from pg 2)

out on my boat and drop a 5 gallon pail over the side with a buoy to the surface. The engineer could see the bucket on the sonar and quickly determine if other objects were larger or smaller. I ran grids so the navigation pilings along the edge of the channel were visible in the sonar image. This made it easy to determine exactly where the target was sitting.

In a matter of a few weeks Mike completed 5 major survey jobs including the submerged structure of the Highway 90 bridge, Bay St. Louis Yacht Harbor, Pass Christian Harbor, Long Beach Harbor, and the Grand Casino Harbor. Officials were so pleased with the results, they've asked Mike to come back after the cleanup and resurvey the area to make sure the job is complete. **JWF**



MIKE COLLINS WITH HIS SIDE SCAN

### HONG KONG CO LOCATES POWER AND COMMUNICATION CABLES

United Marine Services company in Hong Kong are routinely hired to find and mark the location of underwater pipes and cables. Their job is now considerable easier with the purchase of Fishers CT-1 cable tracker and Diver Mag hand-held magnetometer.

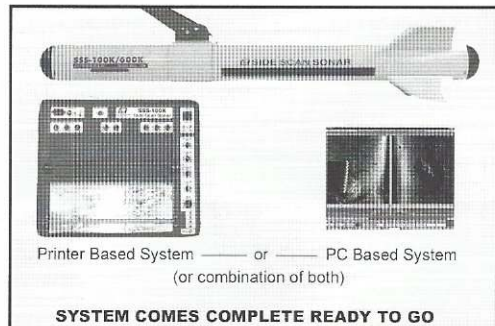
Reports owner Patrick Leung, "I was recently contracted by a telecom company to find one of their cables. We were told it was somewhere within a 500 meter by 4000 meter area, which is a pretty large area for a diver to search for a buried cable. Using the CT-1 we were able to track the cable from where it left the beach to over 2000 meters offshore. The CT-1 probe continuously gave a strong reading even when the diver was more than 3 meters from the cable, and it was covered by more than a meter of sand. We were very impressed with how well it worked.

We will be using the Diver Mag to locate and track pipelines." **JWF**

# COMPANY NEWS and NEW PRODUCTS

## FISHERS NEW SIDE SCAN SONARS

JW Fishers has made a major advancement in their side scan sonar systems. The side scan is now available in two different configurations.



### TWO DIFFERENT CONFIGURATIONS

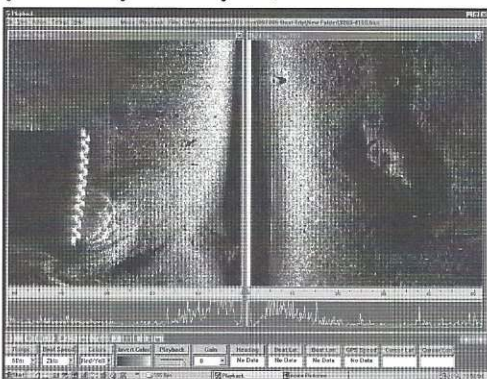
They can be purchased with either a thermal printer or a laptop computer to display sonar images. The computer gives the side scan versatility and options not available with the printer alone. The computer software, SONAR VIEW, was specially developed by JWF for use with their side scan systems. The software allows the operator to quickly and easily change the operating parameters at any time during a survey with no loss of data. The sonar image can be displayed in a variety of colors which can be changed with a click of the mouse. Complete side scan surveys can be saved on disk and screen shots can be copied for emailing. A GPS can be connected to save position coordinates along with the sonar data.

For operators that prefer real time hard copy printouts of their sonar surveys, the thermal printer provides high resolution black and white images. The printer unit is very user friendly with a minimum number of controls,

ideal for teams with numerous operators and minimal training time.

Side scan sonars are one of the most effective tools for underwater searches because they can scan large areas quickly and produce a highly detailed image of the bottom regardless of water visibility. Side scans can help find capsized boats, sunken vehicles, downed aircraft, drowning victims, underwater pipelines, lost anchors, propellers, and even traps for fish and shellfish. These sonars work equally well in salt or fresh water and can be used in lakes, rivers, harbors, and open ocean.

The basic side scan system comes with a single or dual frequency towfish, 150 feet of cable, and the topside display unit. Options for the system include longer lengths of cable, a depressor wing for searches in deep water, and an ultra-bright splash proof computer specially designed for small boat operation. Fishers side scans can be also be supplied with both the thermal printer and a computer. All side scan systems are covered by a full two year factory warranty. **JWF**



SONAR VIEW OF CORRUGATED SEAWALL



## PINGERS NOW AVAILABLE WITH A DELAYED START FEATURE

Fishers popular SFP-1 single frequency pingers and MFP-1 multifrequency pingers are now available with an optional delayed start feature. Pingers are typically used to mark the location of an underwater site or anchored instrument package. By constantly transmitting an acoustic signal, the pingers can quickly and easily be located using a pinger receiver. The delayed start option allows the pinger to postpone the start of its acoustic transmission for up to 99 days. This is extremely valuable when marking sites that may not be revisited for several months. During "sleep time" the pingers use a very small amount of power which dramatically increases the life of its batteries.

Both models of pingers allow the operator to select the number of pings per second, the amount of time each ping lasts, and the output power. These parameters determine how long it will operate and how far away it can be detected. An extended housing option is also available allowing more batteries to be installed which triples the operating time. **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](mailto:jwfishers@aol.com) or visit the website at [www.jwfishers.com](http://www.jwfishers.com).

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