

SEARCH TEAM NEWS

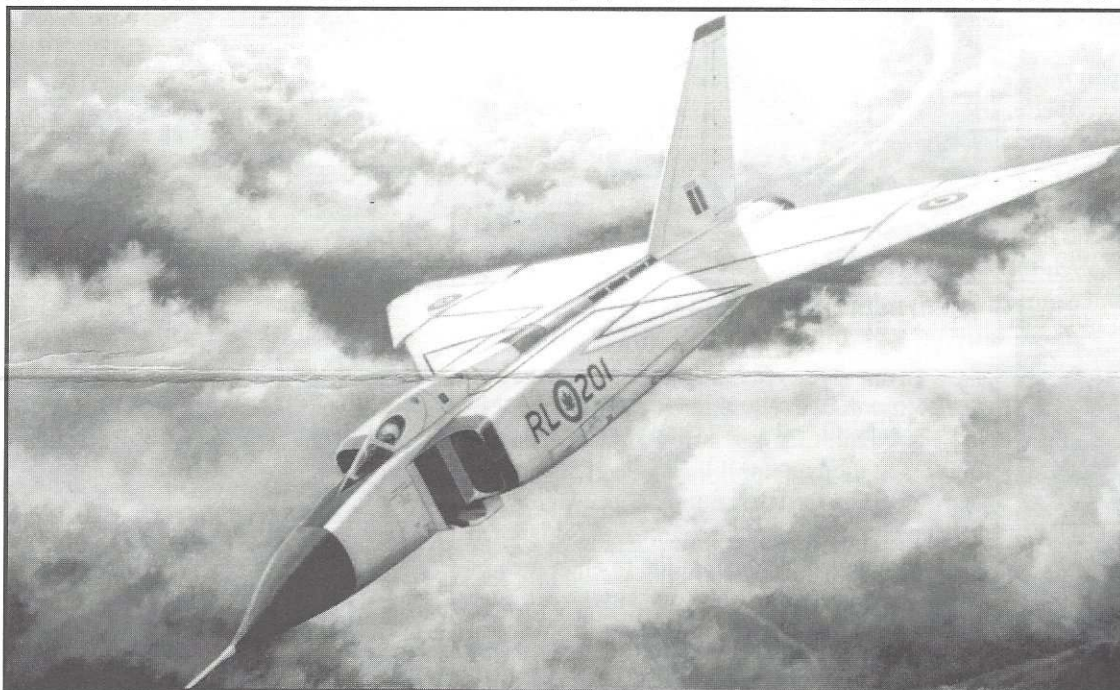
J.W. FISHERS MANUFACTURING INC

JW
FISHERS

UNDERWATER SEARCH

ISSUE 10-1

CANADIAN FIRM SEARCHES FOR HISTORIC AIRCRAFT



CANADA'S AVRO ARROW - DESCRIBED IN 1959 AS THE WORLD'S FASTEST SUPERSONIC JET

Friday, February 20, 1959 may possibly be one of the darkest days ever in Canadian aviation history. On that day, the Canadian government terminated the AVRO Arrow project putting thousands of aerospace designers, engineers, and manufacturing employees out of a job. As terrible a blow as the loss of jobs was to the economy, the real disaster was the blow dealt to the fledgling Canadian aerospace industry. The AVRO company had designed and built what was described as "the world's fastest and highest performance supersonic jet". On the verge of a new dawn in aviation history, the company was told by the Canada's Minister of Defense, C.D. Howe, to "Cease all work immediately. Terminate all subcontracts and orders". On the morning following the announcement, Canadian military showed up and took over the plant. Not only was production stopped, but they destroyed all the existing jets, prototypes, design drawings and tooling involved in the project. The jets were cut into scrap, the drawings burned, and the tooling smashed.

It all began when the Royal Canadian Air Force met with AVRO officials and asked them to create the most advanced supersonic jet fighter the world had ever seen. The company had already established a reputation as being on the cutting edge of aviation technology. They had built the first jet transport plane to fly in North America, the AVRO Jetliner. The Jetliner flew twice as high and three times as fast as the most common propeller plane of the day, the DC-3. AVRO had been negotiating with several large american airlines, including Howard Hughes' Transworld

Airlines, to buy the Jetliner. Mr. Hughes had personally flown the Jetliner on numerous trials and was reportedly impressed with it's performance. However, before AVRO could put the aircraft into production, they were ordered by the Ministry of Defense to shelve the project. They were to begin work immediately on a jet fighter which came to be known as the AVRO Arrow because of it's unique arrow-like design.

The year was 1952 and the Korean war was raging. The airforce wanted a plane that could fly and maneuver at speeds above the sound barrier. The AVRO company quickly became a mecca for engineers and aviation workers from all over the country. Word was out that the company was working on an aircraft that would set a new standard. Great minds from all over Canada gathered to work on the project.

Initial design stages of the project included constructing 1/10 scale models. At the time, no wind tunnels existed that were capable of testing air flow performance at supersonic speeds. To perform testing at speeds greater than the speed of sound, the

INSIDE...

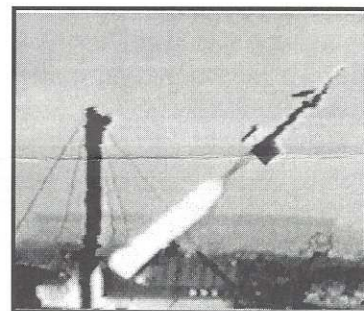
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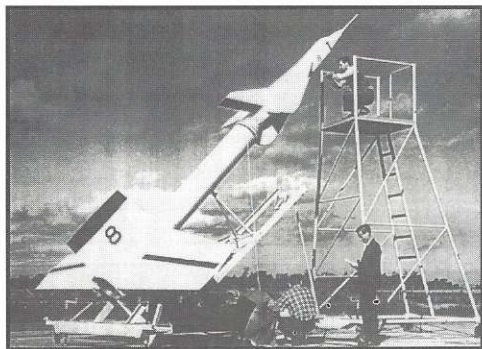
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LAUNCHING THE ARROW



ENGINEERS PREPARE A PROTOTYPE FOR LAUNCH ATOP A NIKE ROCKET

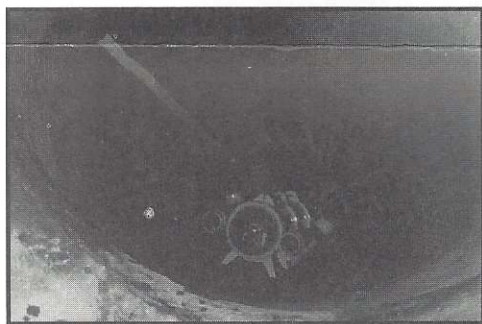
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COMMERCIAL NEWS

.....Marine contractor General Offshore is using Fishers Pulse 8X metal detector to locate underwater pipes and cables. "This detector is really rugged and holds up in our commercial operations. We haul it all over the world with us", reports spokesman Tom Mayhew.

.....Lyman Richey Corp. based in Waterloo, NE is using their Pulse 8X metal detector, equipped with the optional boat-deployed 18" coil, to locate lost cutter heads and dredge parts.

.....Glenn Underwater Services in Abermarle, NC is performing inspections of hydro power dams in the US and South America with Fishers SeaOtter ROV system. "This ROV is perfect for our application. It's compact and light weight for easy travel, yet rugged enough for commercial use", reports owner Rick Glenn.



GLENN UNDERWATER SERVICES USE FISHERS SEAOTTER ROV SYSTEM

.....Seafloor Surveys Int'l conducted a cable route survey from Japan to the US. Spokesperson Jennifer Lenaghan reports, "It's important to know the exact position of active cables so they can be avoided when laying new cables. Divers used the Pulse 8X detector to determine exactly where the cables were laid off the California coast where many cables converge."

.....Northwest Geophysical Services in Redmond, WA has two of Fishers Pulse 12 boat-towed metal detectors. "The Pulse 12s are used primarily for locating pipes and cables", reports Dick Sylwester. "They work great!"

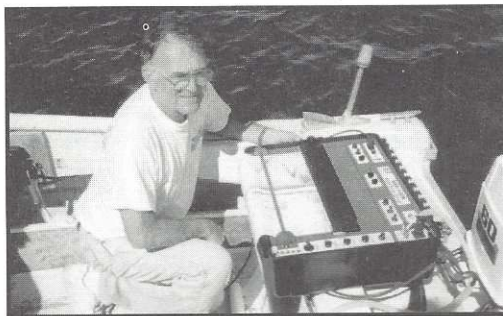
.....Fred Devine Diving and Salvage has purchased a Pulse 8X detector for their underwater search operations. One of the first jobs for the 8X was locating high pressure cylinders that were dumped into a lake back in the 20s and 30s says spokesman Marvin Smith.

.....Mohawk Northeast, a commercial diving company in Newington, CT, is getting lots of use from their Fisher DHC-1 diver held camera system. "We've used the DHC-1 extensively", says diver David Slade. "One of our last inspection jobs was in a holding reservoir. I was trying to explain to our clients the configuration and condition of the pumping equipment. They just couldn't visualize what I was saying. I grabbed the camera and jumped in. Watching the topside video monitor, the clients could see for themselves how the equipment was laid out and it's condition." JWF

CANADIAN FIRM SEARCHES.....

(Continued from page 1)

scale models were mounted to Nike rockets and launched over Lake Ontario. They would reach heights of 4,400 feet and travel at speeds in excess of 1,400 miles per hour before plunging into the cold, dark depths of Lake Ontario.



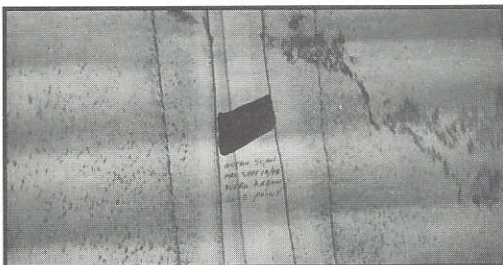
ED BURTT PERFORMS SIDE SCAN SURVEY IN SEARCH OF THE AVRO ARROW

In the 1970s veteran diver and wreck hunter Ed Burtt was actively searching for shipwrecks in Lake Ontario. On several dives he noticed large furrows in the bottom. It looked as if something had plowed up the lake bottom. Since there were no shipwrecks around these furrows, Ed ignored them and moved his exploration to other areas.

Many years later Ed's company, Ocean Scan Systems, was contracted to perform a side scan survey between Canada's Bath Generating Station on the north side of the lake and the Oswego Nuclear Plant on the south side of the lake. During this survey, Ed again saw the strange furrows in the bottom of the lake. He had heard stories before of the AVRO Arrow. This time Ed made the connection to the odd markings on the bottom when he realized that the area where he observed the furrows was directly in the flight path of the Arrow launches.

Ed returned with his Fisher side scan sonar to make a close inspection of the furrows. This resulted in the location of a target, at the end of one of the furrows, that appeared to be debris. The sonar shows what appears to be a wing, complete with sonar shadow, protruding from the lake bottom. Ed believes that further investigation of the site will lead to the recovery of parts from one of the AVRO Arrow prototypes.

Numerous articles and books have been written about the Avro, but why the abrupt project cancelation, and destruction of material and documentation, still remains a mystery to this day.



FISHERS SONAR PRINTOUT OF FURROWS IN LAKE ONTARIO'S BOTTOM

INTERNATIONAL NEWS

.....Government contractor DRA Winfrith in Dorchester, England has purchased Fishers SeaLion ROV system. The company is using the ROV in an undisclosed project with the UK Ministry of Defense.

.....The Bahrain Center for Studies and Research is using Fishers TOV-1 towed video system to "perform sea bottom surveys, to monitor the performance of BRD (By-catch Reduction Device), and to study fish behavior", according to spokesman Ebrahim Abdulqader.

.....The Italian Navy has purchased a Fisher side scan sonar system and magnetometer. One of the first projects for the equipment is locating unexploded ordnance in Lake Garda, Italy's largest lake and a popular tourist destination. The bombs were deposited in the lake during the crisis in Kosovo.



SEALION ROV AND DIVE TEAM OF HONG KONG'S MARINE SERVICES CO. MARITIME MECHANIC LTD.

.....Maritime Mechanic Ltd, a marine services company based in Hong Kong, has purchased several pieces of equipment from JWF including a SeaLion ROV, Proton 3 magnetometer, and a DHL-1 diver-held light system. The company offers a wide range of design and construction services, and has a large team of divers and marine engineers. They are also the sole distributor for U.S. Divers in mainland China.Sesto Continente C. A. in Caracas, Venezuela is using the DHC-1 diver-held camera system to videotape underwater structures including ship hulls.

.....Svega Sea Products in Kristiansund, Norway has purchased two of Fishers DHL-1 surface powered underwater light systems. The lights are being used by divers for night harvesting sea urchins.

.....Korea's Dae Port Construction Co. has purchased a Fisher Pulse 12 boat-towed metal detector with two detection coils. The equipment will first be used in a construction project in Eritrea, Africa.

.....Search Ltda. in Antofagasta, Chile has purchased Fishers SeaOtter ROV. "The ROV will provide us with deep water inspection capability", says Dr. Carlos Guerra Correa. JWF

DIVER IS BITTEN BY THE TREASURE BUG AFTER DISCOVERING GOLD COINS ON THE ELLA WARLEY

On a cold February night in 1863 the steamship Ella Warley pushed through the icy waters off Long Island, NY bound for Havana. As she passed south of the highlands under a moonlit sky and calm seas, she was struck midship by the steamer Northstar. In little more than 15 minutes the Ella Warley was on the bottom taking 6 of her crew to a watery grave.

In the 1970's Allan Gardner, a seasoned NE wreck diver and successful NY businessman, was diving for lobster on one of the many unnamed wrecks in the area. As he swam around the scattered debris in 70 feet of cold, murky green water, the story of two 1850 gold pieces found on the wreck went through his mind. He suspected there was more treasure, but how could he uncover it.

The following spring Allan and his dive partner Paul constructed an airlift and returned to the wreck with visions of gold coins scattered across their deck. Despite their best efforts, the experiment failed at turning up any treasure. However, one of the items recovered was a spoon handle with "ley" inscribed on it. Allan immediately went to the archives and read everything he could find about late 1800s shipwrecks in the area. After countless hours of research, Allan came up with the Ella Warley. Newspaper accounts of the sinking stated the ship had gone down with a cargo valued at \$175,000 consisting of "dry goods, leather, hay and a safe containing \$5,000". Of more interest to the young researcher was the report that one of the passengers had carried \$8,000 in gold on board.



ENDEAVOR TEAM WITH RECOVERED CANNONS

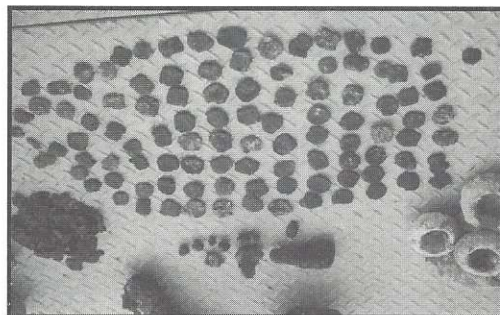
That winter the divers returned to the wreck to see how recent storms had affected the site. Upon surfacing from his dive, Paul pulled off his glove spilling several gold coins onto the deck. Allan couldn't believe his eyes. Paul breathlessly explained where he had found the coins as Allan hurriedly donned his dive gear. Descending to the bottom he saw the disturbed area where Paul had been digging. As Allan excitedly fanned away the silt, more gold coins began to appear. This was it. He was hooked on treasure hunting. Allan formed a company, Endeavor Assoc., to search for other treasure ships in the blue waters of Florida and the Caribbean. After an incident in a small boat nearly ended in disaster, he began design of a vessel capable of performing serious underwater research and salvage operations. He contacted a ship builder in Louisiana to construct his "dream boat". Upon completion he christened her Ella Warley III. Allan outfitted "Ella" with all the necessary equipment for wreck hunting and salvage operations, a compressor, lots of dive gear, a magnetometer, several Fishers Pulse 8X metal detectors, and 2 big "mailboxes" attached to the stern for moving lots of sand.

It wasn't long before Allan and the Endeavor team were finding and salvaging Spanish shipwrecks. The group has recovered numerous artifacts and treasure from wrecks off Jupiter, FL and Haiti.

On their use of the Pulse 8X Allan says, "The 8X is a very durable detector. This is extremely important to us. In the past 6 months we spent 330 hours metal detecting." For more info on Endeavor Assoc. visit their web site at www.ellawarley.com. JWF



GOLD COIN FOUND ON THE WRECK OF THE ELLA WARLEY



COINS AND OTHER ARTIFACTS ON THE DECK OF THE ELLA WARLEY III

GOVERNMENT AGENCIES AND UNIVERSITIES PERFORM UNDER-WATER SEARCHES

.....National Sun Yat-Sen University in Taiwan has purchased Fishers SSS-100K/600K dual frequency side scan sonar system for under-sea search and survey operations.

.....National Taiwan University's Institute of Oceanography has purchased Fishers TOV-1 towed video system to study benthic habitats.

.....Lower Colorado River Authority in Buchanan Dam, TX is using Fishers DHC-1 diver held camera system for their dam inspection projects. "The DHC gives us great underwater pictures of the dam face which helps in making decisions about what repairs may be needed", reports spokesman Kevin Reed.

.....Los Angeles Valley College in Van Nuys, CA has purchased Fishers SeaOtter ROV. Projects planned for the ROV include videotaping the wreck of an 1800s side wheel steamer in one of the state's national parks and inspecting an ice age beach (a beach millions of years ago when the sea level was lower) in 90 feet of water off the southern CA coast.

.....California Dept. of Fish & Game in Monterey is using Fishers DV-1 underwater camera to evaluate marine ecosystems.

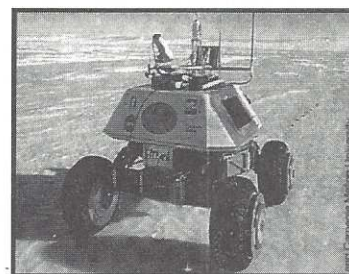
.....Turkey's Dokuz Eylul University Institute of Marine Science and Technology has purchased Fishers SeaLion ROV system.

.....New York Department of Environmental Protection has purchased a second SeaLion ROV. The ROV is used to inspect tunnels and shafts which connect the reservoirs in upstate NY to the Big Apple.

.....U.S. Department of Agriculture, Forest Service Division in Boise, Idaho has purchased another Fisher Pulse 8X metal detector to locate chains buried in river banks.

.....The Naval Research Lab at Mississippi's Stennis Space Center has purchased Fishers Pulse 8X underwater metal detector.

.....Carnegie Mellon University's Robotics Institute in a joint project with NASA has developed a four wheeled robot called Nomad. One of the first missions for the robot was searching for meteorites in the antarctic. The sensor used to detect them is a slightly modified Fisher Pulse 8X detector. Nomad proved successful in locating the first meteorites discovered without the aid of humans.



NOMAD EXPLORES ANTARCTIC

LAW ENFORCEMENT AND DIVE RESCUE NEWS



TULSA POLICE DIVE TEAM

.....Tulsa Police Dept. dive team in Tulsa, OK purchased the DV-1 dropped video system for their underwater search operations. Recently the team assisted FBI agents in the search for two missing girls. A tip lead officers to a remote mining town in northeast Oklahoma. "The DV-1 was used to inspect flooded mine shafts", reported Tulsa police Sgt. Ted Umbarger. "We suspected the water in the shafts may have been contaminated from the mining operations. Also we had no idea of the structural condition of the shafts and what obstructions we might encounter. It was faster and safer to deploy the DV-1 than to put in divers. We didn't find the girls but everyone involved was impressed with the clear, sharp pictures from the DV-1. A tape of the inspection was made so we could show other teams the quality of the video produced by our new underwater camera."



TULSA POLICE DIVER PREPARES TO DEPLOY UNDERWATER CAMERA

.....West Metro Fire Rescue in Lakewood, CO is using their Pulse 8X for search and recovery ops. "The 8X is easy to use and has helped us reduce the amount of time we spend searching for objects", says dive team member Kevin Schmidt.

.....The Nassua County Police Dept. in East Rockaway, NY has purchased a second J.W. Fisher Pulse 6X detector. Product quality and simplicity of operation were cited as the primary reasons for selecting this detector according to officer Brian Frey.

.....Durham County Sheriffs Office in Durham, NC has two Fishers Pulse 8X detectors that they use for weapons recovery reports Lt. Eric Scott. "I bought a Pulse 8X for my own personal use a number of years ago. I let the department borrow it whenever we had a search and recovery operation. After awhile the department was using it more than I was. At that point I suggested they consider buying their own, which they did. It worked out so well, a short time later they bought a second one."

Lt. Scott went on to say "We've got a lot of use out of these detectors. They've been particularly helpful in locating weapons along the banks of our rivers. Many of the rivers have rocks placed along the banks to control erosion. When a handgun is thrown in, it can become lodged between rocks. It's very time consuming checking between them by hand. With the metal detector we can quickly scan over them. If there's a weapon in there, the 8X will sound off. We've also used our detectors for a number of land searches and found they work just as well on land as they do in the water."

.....Piqua Fire Dept. in Ohio has purchased the Pulse 8X detector. "Our department does recovery for work for both the police and fire units in Piqua. The 8X is doing a great job for us!", reports diver Jeff Meckstroth.

-----BOOK REVIEW-----

An excellent book on underwater investigation techniques is now available from Best Publishing Company. The *Encyclopedia of Underwater Investigations* was written by Royal Canadian Mounted Police officer Cpl. Robert G. Teather, an active RCMP instructor involved in police investigative diving procedures for over 25 years.

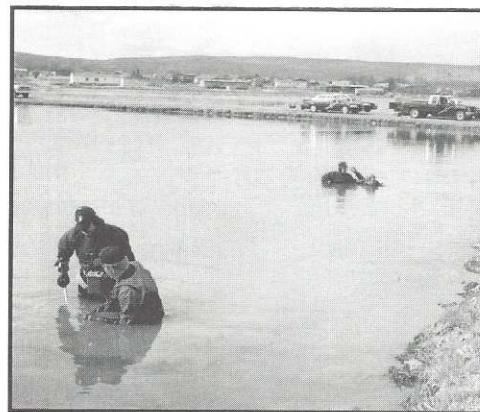
Covered in the 186 page book are a variety of topics of interest to law enforcement and dive rescue personnel including body recovery & search procedures, accident investigation techniques, firearms, vehicle and aircraft recovery, collection and preservation of physical evidence, and presenting evidence in court.

The book is well written with easy to understand, concise language. There are numerous photos and illustrations in each section to support the subject being discussed.

For more information contact Best Publishing at Ph(520) 527-1055, Fax(520) 527-0370, or e-mail divebooks@bestpub.com.

.....Pulaski County Rescue Squad in Somerset, KY is using Fishers SeaLion ROV system to locate drowning victims. "This camera is great!", reports Lt. Don Franklin. "It helps us minimize risk to our divers when searching areas with low visibility and deeper depths. The camera can stay down all day long and we don't have to worry about decompression or running out of air."

.....New Mexico State Police Dive Team are using their two Pulse 8X detectors to recover a variety of weapons according to police diver Mike Waring. "We've located pistols, shotguns and rifles with our 8Xs. We have a lot of confidence in the detectors and our ability to use them effectively. If we're looking for a weapon, we know the 8X will find it."



NEW MEXICO STATE POLICE USE PULSE 8X TO RECOVER WEAPONS

.....Tri-County Dive Rescue in Buckeye Lake, Ohio has purchased Fishers SSS-600K side scan sonar for their search and recovery operations. "The side scan has helped us locate a number of drowning victims. "This side scan was affordable enough for our department's budget and it's very easy to operate", reports director John Bulloch.

....."I like using the Pulse 8X better than the high tech land detector we have because it's so reliable and easy to operate", says Sgt. Dave Ball with the Missoula County Sheriffs Dept. in Missoula, MT. "We've had the 8X since 93' and it's working great for us."

.....Grosse Pointe, MI police have used their Pulse 8X detector to locate several pistols, a rifle and various jewelry items according to police diver Leon Sehoyan. "The 8X has done a great job for us!", reports Leon.

.....Cobb County Police in Marietta, Georgia are using their Pulse 8X for recovery ops.

.....Pierce County Sheriff Dept. in Puyallup, WA is using their Pulse 8X to search for weapons used in the commission of violent crimes, reports Detective Scott Mielcarek.

TREASURES RECOVERED!

DIVER SAVES WEDDING DAY, RECOVERS \$10,000 RING

Ed Rosacker of Divers Cove dive shop in Essex, CT was taken back a bit when a young couple that were obviously part of a wedding party showed up in his shop pleading for the assistance of a scuba diver. The couple frantically related how the new bride had lost her engagement and wedding rings while taking the wedding photos. The photos were being shot at the waters edge of a nearby river. On a dock extending out into the river, the photographer had asked the bride to put her glove down and lay the rings on top. After several photos of the rings were taken, the bride snatched up her glove, launching the two rings valued at over \$10,000, into the murky water.



ED ROSACKER WITH HIS FISHER PULSE 8X DETECTOR

After hearing their sad story Ed grabbed his gear and headed down to the river to evaluate the situation. Having performed numerous underwater searches, he knew that the indicated location of the lost item was rarely where it would ultimately be found. Ed was further discouraged when he checked the water's visibility. A steady stream of rain over the previous two days had turned the river the color and consistency of chocolate milk. "Things are not looking good for a quick and easy recovery here", Ed thought, but he knew his many years of experience and his Fisher Pulse 8X metal detector were working in his favor. Ed donned his gear, grabbed his detector and entered the water. As he sucked down the last of the air in his tank, there was still no sign of the rings. The distraught bride could stand to watch no longer and left the scene. Ed persisted. While working on his third tank, the Pulse 8X shrieked an alarm confirming a target had been located. Ed stuck a gloved hand into the mucky bottom below the detector's search coil. As the brown ooze squeezed through his fingers he suddenly felt something round and hard. He surfaced to view his find. Lo and behold it was the gold wedding band. He pocketed the ring and descended again knowing the engagement ring had to be close by. In a few short minutes the 8X sounded off again. Again his fingers probed the bottom gook until he felt the circular metal band. Surfacing from the pitch black darkness of a closet into the bright light of day, Ed was practically blinded as sun beams reflected through a large diamond ring. The reg dropped from his mouth and Ed's face spread into a wide grin.

He collected a nice reward for all his time and hard work searching the muddy river but Ed says, "The look on their faces when I handed them the rings, and the gratitude they expressed, will be remembered long after the reward money has been spent." *JWF*

CANPAC DIVERS FIND 23 CARIBBEAN SHIPWRECKS!

Canpac Divers is a full service commercial diving and salvage company based in Vancouver, BC, Canada. In 1992, the company signed an agreement giving it permission to search for shipwrecks in Caribbean waters. In 1995 Canpac's search vessel left Vancouver and headed for the northern Caribbean. To date the Canpac team has discovered 23 shipwrecks. Some of the vessels were coastal traders while others were carrying cargo from Europe and abroad. Wreck number 23 has proved the most valuable to date.

"The sea bottom is littered with cannons, anchors, and numerous other artifacts", says Canpac president Glenn Costello. "We've identified her as the galleon *Nuestra Senora de las Mercedes*. She was loaded with a cargo of newly minted silver coins, silver bars and precious gemstones.

Canpac has worked hand in hand with members of the Caribbean Archaeological Society to carefully survey the wreck site before recovery of any artifacts. Great care has been taken to record and map the locations of everything found on the site. All artifacts are sent to the archaeologists for identification and cataloging.

"Fishers Pulse 8X detectors were the principal piece of equipment used to locate the metal objects. Interestingly a number of valuable objects, such as gemstones, were turned up in the same spots with the metallic treasure." "These detectors have performed beautifully for us", Glenn adds.

.....Ben Marich of Marex Oceanographic Services reports, "We've been working the wreck of the *The City of Vera Cruz* off Cape Canaveral, Florida. Hundreds of artifacts have been recovered using your Pulse 8X detectors. My daughter Jody accompanied me on one of our trips. She had just turned twelve and gotten her C-card. She found her first treasure on this wreck, a beautiful gold locket. Now she's been bitten by the treasure bug like her dad." Nice find Jody!

.....Jerry Studinak of Marathon, FL found "three gold rings and a bunch of change" working local beaches with his Pulse 8X. "I used to pan for gold in Alaska and it still gives me goosebumps when I see the glint of gold in my scoop."



MAREX DIVERS WITH RECOVERED ARTIFACTS (Jody center)

..... Sgt. Don Holstead with U.S. Army Special Forces Group relaxes by diving with his Pulse 8X when he's not on duty. He writes, "I have enjoyed diving with my Fisher 8X for the last 6 months. In that short time I have found pieces of eight in Shagris River in Panama and a considerable amount of new gold lost by divers touring around the wrecks off shore of North Carolina. The 8X is by far my most treasured piece of dive equipment."

.....Mark Loveland of Ft. Myers, FL reports finding a man's custom made gold and platinum bracelet with diamonds valued at over \$10K lost off Sanibel Island with his Pulse 8X. He also found a rare spanish coin dated early 1700s. *JWF*

COMPANY NEWS

NEW PRODUCTS

FISHERS INTRODUCE A NEW, FOURTH GENERATION MAG

JWF has developed a fourth generation proton magnetometer. "We have been designing and building magnetometers for over 20 years", says company founder and president Jack Fisher. "The Proton 4 is our newest and best magnetometer. We've learned a lot about building mags over the last 20 years. As a result of customer feedback and advancing technology we were able to improve what was already a very good mag, our Proton 3".

The proton magnetometer has long been the "workhorse" of the commercial salvage business and professional treasure hunters. With an extreme sensitivity to ferrous metal objects it can locate wrecks at great distances. Mags are also commonly used to find buried anchors, pipelines, cannons, dredge parts and a variety of other iron and steel objects.



FISHERS NEW PROTON 4 MAGNETOMETER

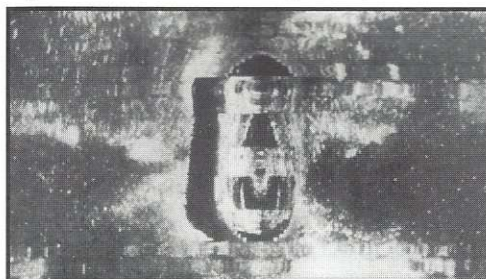
The Proton 4 is a has a one gamma sensitivity and is available with 1000 foot depth capability and up to 1000 feet of cable. The mag displays its readout on an easy to read 5 digit LCD. The display is backlit for night operations. An optional built in printer is available to give the system operator a permanent record of mag readouts and GPS coordinates. A software package is also available that allows the mag readouts and GPS data to be displayed and stored on a PC in a windows format. The software can be run on any PC equipped with a 486 processor or better and windows 3.1 or better. Displayed in a cascading waterfall are the last 24 mag and GPS readings. Also shown is a strip chart type graphical representation of the last 5 minutes of mag readouts.

For a tech data sheet on the Proton 4 call JWF at (800) 822-4744, fax (508) 880-8949, or e-mail jwfishers@aol.com. **JWF**

FISHERS ANNOUNCE ANOTHER BREAKTHROUGH IN LOW COST SIDE SCAN SONAR SYSTEMS WITH PC HARDWARE/SOFTWARE

JWF, the specialists in low cost, high tech underwater search equipment are now offering a software/hardware package for their very popular, low cost side scan systems.

Side scan sonar has long been one of the most sought after and effective tools for underwater searches. The sonar beam, transmitted from transducers mounted on either side of the side scan towfish, sweeps the ocean floor reflecting off anything on the bottom. The reflected acoustic wave returns to the towfish, is received and sent topside to the control/printer unit for processing and printout. A highly detailed image of the target sitting on the bottom is produced on the thermal printer, PC or both.

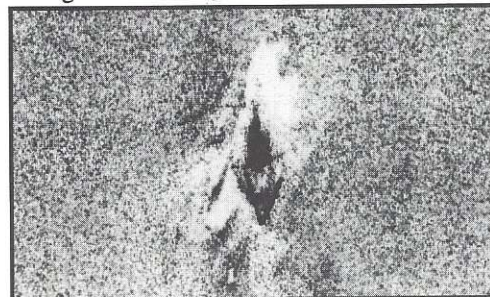


SHIPWRECK DISPLAYED ON PC MONITOR

The computer hardware/software package lets the side scan output to Fishers large 17" thermal printer, a computer monitor or both. The computer system gives the side scan operator a variety of options for displaying and enhancing the sonar image. The software allows selection of several different color schemes, enlargement of targets, and manipulation of side scan controls such as slant range

correction and water column removal. In addition, the computer system will accept input from other devices. GPS position information can be sent to the PC for display and storage along with the side scan data. Position coordinates, target size and height are displayed with a click of the mouse.

Fishers sonars are available in a variety of configurations including high frequency, low frequency and dual frequency. The low frequency 100K system has excellent long range capabilities of up to 1800 feet (3600' swath) and is well suited for wreck hunting and general search applications. The high frequency 600K system provides very high resolution over shorter ranges up to 200 feet. This system is ideal for law enforcement dive rescue operations because it produces high detailed pictures "soft targets" like drowning victims. The dual frequency system incorporates the best features of both of these systems into one. The operator can choose between 100K or 600K operation and switch between them at anytime during the search. **JWF**



HIGH RESOLUTION THERMAL PRINTOUT

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; FAX (508) 880-8949

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