

MARITIME RACING

SAINT JOHN, N.B. (CP) — Peter Humes, a nine-year-old brown gelding owned by Mrs. Vera Dexter of nearby Lancaster and driven by Rod Goguen, captured the single dash 8000 Junior Invitational race at Exhibition Park Raceway Saturday.

Peter Humes finished second but was placed first because Silent Tag, the winner, interfered and was set back to fifth position. Key Portia was awarded second place and paid a whopping \$41.40 on a place ticket. Rhythm Time was third. Meadow Bird (2:12 1-5) paced the fastest mile of the afternoon in race seven—the second half of a preferred pace. Get Even finished second and was best-in-summary because of winning the third dash in 2:13.

Betty's Pince Tabb (2:14) and Honey Byrd (2:16 3-5) raced to new individual marks.

Other winners were Scotch Flag (2:18 2-5), Tammany Hall (2:14 2-5), Colleen's Victory (2:15 3-5) and Texas Dear (2:20).

The best combination payoff was the daily double on races seven and eight which paid \$65.10.

HALIFAX (CP) — Armbr Aileen opened the winter harness racing season at the Exhibition Raceway here Saturday with two victories on a 10-dash program. The horse clocked five-eighths of a mile in 48 4-5 seconds and three quarters of a mile in 1:44 3-5.

Single winners were Corbin (50 2-5), Shadydale Chief (1:45), Joe's Future (59), Glen Allen (1:45 4-5), Basil's Boy (54 4-5), Onaway (1:46), Nellie J. (88) and Lady Oregon (1:50).

COLLEGE FOOTBALL

By THE ASSOCIATED PRESS East Syracuse 41 W Virginia 10 Army 15 Wyoming 0 Princeton 31 Yale 6 Dartmouth 20 Cornell 0 Penn S 14 Navy 6 Harvard 17 Brown 8 Penn 31 Columbia 21 Rutgers 14 Holy Cross 0 Boston C 30 W and M 17 Buffalo 28 Colgate 0 Delaware 50 Boston U 7 Florida 51 Tulane 19 Alabama 35 South Car 14 Georgia Tech 42 Virginia 19 Mississippi 14 Tennessee 13 Louisiana S 37 Mississippi S 30 Memphis 5 26 North Texas 5 Maryland 6 Clemson 0 Duke 40 Wake Forest 7 Auburn 21 Georgia 19 Virginia T 21 Villanova 10

Scientists Are Turning To Sea For Answer To Man's Problems

While the eyes of the world are fixed on space, many scientists are turning to the sea for the answers to the problems that plague mankind: Where to find more living space, where to find more fresh water. Some even dream of making the old mythical sea city of Atlantis a reality and "farming" the ocean depths.

By BERNARD GAVZER Now, as never in history, man has immersed himself in the sea.

He is determined to unravel its secrets and bend it to his will.

Some scientists even dream of making it a future home for man.

"We are most intrigued by the great potential that the ocean holds for the betterment of mankind," says Dr. Harris B. Stewart Jr., chief oceanographer of the U.S. Coast and Geodetic Survey.

"It is man's last great resource on earth. The time has

come to realize that if we are to survive on this earth, we must first understand the intricate workings of the global sea and the role this great body of water will play in the future of the race."

BIG HIT NOW IS SPACE

Most new exploration in the last decade has been aimed at the stars. Going "outer space," reaching for the moon and beyond, the United States alone spent \$24,600,000,000 in the 1955-65 period.

Little glamour was attached to the work of the earth scientists concerned with the oceans and continents. Little money, too.

For each \$2.46 spent in outer space, one penny went to inner space — that is, oceanography and solid earth research. However, earth scientists are getting a boost in the \$100,000,000 plus Project Mohole, aimed at drilling into the earth's mantle, and \$141,000,000 for oceanographic work in fiscal 1966.

The scientists who study the sea—oceanographers—say it offers mankind many things, especially:

1—Space. More than 70 per cent of the earth's surface—139,705,000 square miles—is covered by the sea. With the exploding population—estimated to be 6,000,000,000, perhaps reach 7,400,000,000 by the year 2000—man will need living room, and he can get it by building cities in the ocean.

2—Food. Marine life, ranging from the world's largest animals to microscopic phytoplankton, has to be calculated in numerals followed by dozens of zeroes. Today some of the richest and most fertile fish areas lie unexplored off the west coast of Africa and in the Indian Ocean, adjacent to nations plagued by malnutrition. There is enough available protein to provide 20 times the present world need, and the amount grows.

3—Fresh water. There is in the sea, mainly locked up in glaciers, enough fresh water to provide each of the world's 1,000,000,000 persons with 3,000,000,000 gallons a year.

4—Energy. The sea is the great reservoir of heat energy from the sun and affects world weather. In and on it are born hurricanes which unleash forces greater than any man has been able to produce. Understanding its dynamics could lead to weather control—and presumably the potential for turning deserts into lush paradises, ending droughts and floods.

Can there indeed be a sea city, a mythical Atlantis come true?

One of the pioneers who thinks so is Capt. Jacques-Yves Cousteau, the French underwater explorer, who has operated several undersea bases for exploration.

"I am finishing an enjoyable meal with my wife Simone and a tableful of good companions in a snug lodge we have built in a remote and primitive part of the world," wrote Cousteau in an article describing a submerged colony on a Red Sea reef. It was 36 feet below the surface.

SPENT 30 DAYS IN WATER

The Cousteau were in Starfish House, the centre of Conshelf II operations, in which five oceanauts (as the French call them) subsequently spent 30 days.

Conshelf III, in which six oceanauts spent 23 days at 328 feet off France's Cape Serrat—

the deepest prolonged submergence yet—carried sea explorers further toward command of the ocean bottom.

The oceanauts were able to work in open water at a depth of 367 feet, doing hard work for periods of from two to four hours. The breakthrough was in being able to install, assemble, service and operate an oil well Christmas tree, a production unit controlling flow of oil.

"Until now," reports Cousteau, "these operations had to be hauled at 150 feet. Now we have demonstrated we can go as deep for exploitable oil territory."

"We have advanced into occupation of the sea floor for science and industry."

HEADS U.S. WORK

Capt. George Bond U.S. navy surgeon who envisaged sea colonies for man in the 70's this summer's man-in-the-sea operation in which Sealab II was set 206 feet below the Pacific off La Jolla, Calif. Three teams each spent 15 days below.

One of the aquanauts was astronaut M. Scott Carpenter the first man to have lived in both outer and inner space. Carpenter commented in a sea-to-surface interview that he thought outer space was more hostile.

Capt. Bond says, "I don't foresee sea cities, but I see colonies of perhaps 50 persons established in large underwater bases surrounded by ancillary installations as much as 50 miles away."

"There would also be semi-mobile bases and completely mobile habitats, such as nuclear submarines, which could go anywhere in the world, settle on any continental shelf, and perform monitoring jobs, underwater engineering, on-the-spot ore sampling, search jobs and rescue."

While emphasis has been placed on physical conditioning and the swimming skill of people involved in underwater projects, the sea dweller of tomorrow would not have to be intimately in water.

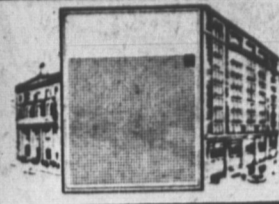
William Segal, a California architect who has drawn plans for an underwater pavilion and restaurant to be constructed off Bean Island in the Caribbean in 1967 has it so designed that entry could be made without so much as getting wet. Such structures on the relatively shallow continental shelf would generally be surface supported.

FARM THE SEA?

The business of getting food from the ocean has been going on since the rise of man. There are at least 25,000 different species of fish. Still, with so much to choose from and so much about one per cent of his food from the sea. Scientists say one answer is in aquaculture—farming the sea.

THE PROVINCIAL BANK OF CANADA

CONDENSED FINANCIAL STATEMENTS October 31, 1965



ASSETS

Table with columns for 1965 and 1964. Rows include Cash resources, Securities, Call loans, Other loans, Bank premises, Letters of credit and other assets.

LIABILITIES

Table with columns for 1965 and 1964. Rows include Deposits, Letters of credit and other liabilities, Capital, rest account and undivided profits.

UNDIVIDED PROFITS ACCOUNT

Table with columns for 1965 and 1964. Rows include Operating profits for the year, Provision for income taxes, Net profit, Dividends, Balance of undivided profits, previous year, Total, Transferred to rest account, Balance of undivided profits, October 31.

LÉO LAVOIE, General Manager

I. URBAL DOVER, President

'OH, NO, IT CAN'T HAPPEN HERE'

The thought—Oh, no, it can't happen again—raced through Lt. John Sullivan's mind when a Boeing 727 crash landed Thursday in Salt Lake City. It was the second air crash in five days for the 34-year old Malden, Mass., man, who was one of the 30 who survived the 727 crash. The other was over Tulsa, Okla., in which three persons died when their small plane hit an Air Force transport in which Sullivan was flying. Sullivan is seen here in hospital at Hill Air Force Base, Utah.

CURLING DRAW

The following is the opening draw in the Pre-Christmas Bonspiel at the November Curling Club, scheduled for Monday, November 15, 1965. Monday — Friday Section: 7.00 Ice 1 — Jim Burden, Norm MacNeill, Lou Bagnall, Don Shears vs Gordon Bennett, Bill O'Rourke, Geo. Brookins, Denis Osgrove. Ice 2 — Geo. Kays, Bill Boyles, Larry Campbell, Harvey Douglas vs Addie MacDonald, Louis Leger, Elwood Ford, Harold Milton. Ice 3 — Had MacInnis, Dave Cox, Don MacLennan, Walter MacGregor vs Gordon Stewart, Keith Kennedy, Allison Gill, Merrill MacLean. Ice 4 — Ed Tanton, Andy Bagnall, Art Horne, Gerald Proctor vs Walter Redden, Keith Acorn, Geo. Newman, Geo. Schleyer. Ice 5 — Randy Carruthers, Wes Storey, Stan Willis, Joe Shefferson vs Paul O'Rourke, Bill Hopkins, A.E. Piercy, Bill Stevenson. Monday — Wednesday Section: 8.30 Ice 1 — Frank Curtis, Henry Petera, Thorley Burke, Frank Lewis vs Art Love, Bill Ball, Vic Robertson, Harvey Campbell. Ice 2 — Wen MacLaine, Kayo MacInnis, Bud MacDonald, Don Livingstone vs T.W.L. Prowse, Al Lesman, Hee MacDougall, Harry Shama. Ice 3 — F. MacMillan, Roger Goss, Bruce MacLellan, Bert Patterson vs Lloyd Wellner, Sterling Beaton, Don MacKay, Garth Jenkins. Ice 4 — Tarky Whitlock, Merrill Wigginton, Emmett Austin, Eldon MacLean vs Charlie Asprey, Pud Whitlock, Jim MacLean, Geo. Wright. Ice 5 — Jim Cameron, Tom White, Bob Stead, Percy Simmons vs Errol Nicholson, Bill Davis, Bob Wwester, Elmer MacLaughlan. Spares will be needed for both draws.

SPEND MONEY ON SAFETY WINNIPEG (CP) — Winnipeg, often threatened by floods, is to overhaul its entire storm relief sewer system by 1969. The office of Mayor Stephen Juba said the task may cost \$10,000,000.

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