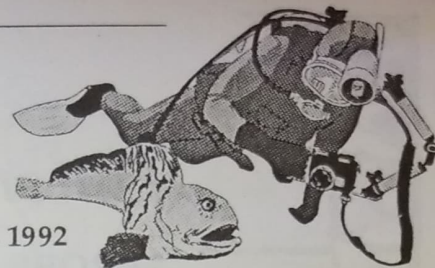


BOTTOMtime

The bi-monthly newsletter of the Nova Scotia Underwater Council • March, 1992



Diving Nova Scotia: Shipwreck *Deliverance*, 1917

In the early morning of June 15, 1917 the steamer *Deliverance* sailed out into a thick fog and a calm sea in Halifax Harbour, under charter to the Royal Canadian Navy for coastal patrol purposes. The harbour administration itself was still under the command of the British Navy. It was six months before the Halifax Explosion.

Owned by the Southern Cross Salvage Co., Liverpool, N.S., she was under the command of Capt. Brennan and accompanied by another boat in the same service.

Those on the bridge of the patrol boat were able to see a half mile or so through the mist. The *Deliverance* was blowing one long and two short blasts of her whistle signifying that all ships should keep clear.

Another whistle was heard. About a half mile to sea, the crew of the *Deliverance* saw the Norwegian steamer, *Regin*, heading inbound. The *Regin* was blowing one blast to indicate she was steaming ahead. Seeing the danger of a collision, the captain of the patrol boat immediately ordered full

speed astern but, according to the crew of the *Deliverance*, the other steamer kept coming. Hampered by a wire cable attached to the other boat, the *Deliverance* was unable to swing clear and caught the full force of the collision.

The *Regin* struck the *Deliverance* on the starboard side about 20 ft. from the stern. Capt. Brennan ordered full speed ahead and headed the *Deliverance* for Herring Cove, about three miles away, hoping to be able to beach his ship in a safe haven.

For a short time it seemed as though the *Deliverance* would be able to make it. However, it soon became apparent

continues on page six

Action-packed diving expo appeals to both divers and those interested in the maritime world

The Nova Scotia Underwater Council is organizing and hosting ScubaFest '92 this year at the Dartmouth Sportsplex on May 9th and May 10th.

ScubaFest '92 will be an annual NSUC event spotlighting underwater activities throughout the Atlantic Provinces.

This year's show will combine several exciting events over the two day period. On the agenda will be seminars and workshops from Steve Blasco, Chief Scientist, Geological Survey of Canada based at the Bedford Institute of Oceanography who took part in the IMAX/TITANIC expedition that combined the efforts of Canadian, American and So-

viet exploration teams. Steve will hold a seminar discussing his adventure with the team and will share photos and film taken during the trip. He also will be bringing to the show a piece of the *Titanic* for all to see and touch. 1992 marks the 80th anniversary of the sinking of this "unsinkable" ship. Other seminars will include an update by Gordon Fader on his most recent findings in the Halifax

Harbour Sonar Survey that has uncovered some fascinating discoveries.

Robert Ogilvey and Calum Ewing from the Nova Scotia Museum Complex will be on hand to discuss the managing of shipwrecks in Nova Scotia. They will explain how shipwrecks are recorded, protected and managed by the provincial government; how the provincial ship-

continues on page 12





Editorial

ERRORS AND STANDARDS

The first thing I must do is apologize for the tardiness of the last *Bottomtime*. Extra time was allowed for the Christmas period. However, other things conspired to add further delays, e.g., sicknesses, last minute alterations which were essential and then, to cap it all, the printers' printing press broke down. Overall, we are self-critical, but proud of our record of producing *Bottomtime* on time.

From time to time, errors do occur — as they do in any paper. More so because what we are doing is also new. Thus, problems are inevitable. The central issue is our attitude towards these problems. There are various types of errors; typos, errors of fact, errors of omission, etc. The first are regrettable but not an issue of principle. Try as I might, I do not always find them all and some New Media Services spot, but we are not perfect and our resources are limited. Nor do we have the illusion that a spotless publication will fall from the sky perfectly baked or fully formed. Our main concern has been stabilizing and professionalizing the publication step-by-step; raising its quality and standards; developing the editorial policy to serve the interests of the sport diver of Nova Scotia; and enhancing participation from non-board divers. This is the principle behind our approach. Typos are one element in raising our standards, but they remain one. It is rather like the forest and the trees. You can appreciate that our approach is not so eclectic or indifferent. If you see any errors of fact or omission, please do not hesitate to call me (864-1157). We welcome, indeed demand, constructive criticism and input, as we view our newsletter as a collective work — not as private property. It is both the member's democratic right — and responsibility. Again, the central issue is attitude to problems, and the issues and questions facing sport divers.

There is an error where two different addresses are listed for the NSUC in the last issue. Please use the Halifax address. The reason this has been changed c/o Sport Nova Scotia is to use our coordinator there to distribute the mail, and cut the cost of our own mailbox. Please address your correspondence, e.g. the President, to whom you want your letter to be forwarded.

Furthermore, annual club dues for the Acqualantics are \$70 and not \$60 as reported.

This will be the last issue before the new fiscal year. Might I remind everybody that memberships are due on April 1st. General membership has risen this year by 7% so we have had a rise now for the past three years. This is very promising. We still have a long way to go, so if you know anyone who is not a member, twist their arm a little. The more we are, the stronger representation to Government and whoever else we might try to approach for sponsorship, etc.

BOTTOMTIME

Bottomtime is published six times annually by the Nova Scotia Underwater Council. It is distributed free of charge to members. Non-members may purchase an annual subscription for \$17.50. Whenever possible, subscriptions will commence with the current issue.

Bottomtime is published as a forum with the aim to generate opinions, communication with and feedback from our members. Submissions to *Bottomtime* are published at the discretion of the editor. Articles are the opinion of the contributory authors and do not necessarily represent the views of the NSUC. Articles may be reproduced with the written permission of the NSUC. We encourage response to any of the articles.

Advertising rates are available upon request. If advertisers require design services to prepare camera-ready copy, this must be arranged prior to the deadline.

The next edition will be published on May 1, 1992 with the deadline for submissions to the editor being April 13.

Send all submissions to:

The Editor, Nova Scotia Underwater Council
26 Sapphire Crescent, Lower Sackville, N.S. B4C 2T9
Publishing *Bottomtime* is made possible by the N.S. Sport and Recreation Commission.

Bottomtime

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Design/Production	Tony Seed/New Media Services, 477-0421. <i>Bottomtime</i> fax: 479-3098
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Nameplate	Tony Seed and Bob Semple

The Nova Scotia Underwater Council

President	Roland G. Lewis
ISSN 1188-2050	

Although at the time of writing the snow is still thick on the ground, by the time this issue hits your postbox, the diving season will be nigh, and we should think about knocking the spiders and cobwebs out of our regulators, etc. Have them checked out at your local dive shop.

Letters to the editor

Dear Nova Scotia Underwater Council,
I enjoy receiving the *Bottomtime*. I find the articles and information interesting. Please note my new address.

Tanya Butler

Dear Tanya,
Thank you for your compliments about the *Bottomtime* which we are glad to receive.
Your address change has been duly noted.

Editor

News in Brief & Comment



Divers Socials

In order to raise funds for various events, the NSUC board is hosting fund-raising social gatherings at **Oakwood House**, Banook Drive, Dartmouth.

The first was held on March 15 and was a modest success. The ScubaFest Organizing Committee has printed up posters which have been posted in dive shops in the Metro area. All are welcome, non-members as well. Another social will be Saturday, April 11. Come out and support us and make some new friends at the same time.

As well, the Committee will be selling snazzy ScubaFest sweat shirts for \$25 to raise funds. For information, contact Andrew Harvey, 423-4243.

Cape Breton News

A new dive shop, **Scuba Tech**, will be opening its doors in Sydney this April 6. The store is owned by Susan and Ken Jardine. Ken, the divemaster for the 1991 Sea Hunt, has been active with the CFB Greenwood Scuba Club until he recently left the Armed Forces.

The Jardines aim to offer "a complete dive service for the area", including sales, service, rentals, charters and are now taking orders for scuba courses. We wish them every

success. Scuba Tech is located at 15 Wentworth Street, tel. 562-6061.

A Cape Breton dive club is hosting a trip to **St. Paul's Island** over the last weekend of July. The cost is \$200. For more information, call Ted Trucz, 567-2020

Tony Seed from Roland Lewis

International

A dive club and magazine for women has been launched in the USA. The name of the club is L.U.S.T. (Ladies Under Sea Together). The magazine is named **Woman Diver**.

A fine time for seven U.S. Divers in California's Channel Islands National Marine sanctuary, who are now \$132,000 U.S. lighter in their pockets for removing artefacts from two wrecks within sanctuary. 13 other divers settled out of court. The divers were from the Los Angeles area.

On pollution A petition by the British Divers for Clean Waters Group has convinced authorities not to go ahead with a plan to increase raw sewage disposal at Hendon near Sunderland U.K. [Food for thought in the Maritimes, perhaps?]

Pugneys Country Park Lake, Wakefield, U.K., 238 divers enter the water for a charity event, establishing a new

Global Priorities

"There is no greater or more urgent priority than protecting our beautiful planet for the generations that will inherit it," says Captain Jacques Cousteau.

First launched in Paris by Captain Cousteau last May, and in the USA last August, the **Bill of Rights for Future Generations** is a global petition campaign focusing on the need to develop a new global ethic based on concern for the environment and the welfare of future generations, not short-term monetary profits.

The campaign was officially launched in Canada at the Halifax Boat Show by Divers World on February 20.

"With conditions in Halifax Harbour foremost in my mind, and the increasing media coverage of polluted lands and waters, I was very encouraged by the efforts of the Cousteau Society," said Gloria Connors, president. "By promoting their efforts in our store, I feel that I can not only participate myself, but make it easier for others to offer their support as well."

The overall goal is to amass several million signatures to press for incorporation of the Bill of Rights for Future Generations in the United Nations charter.

The campaign asserts that if governments will not take steps to protect the habitability of the planet, then the global community — the people of the world — must. "When petitions gather two million, three million, ten million signatures, politicians are obliged to acknowledge that there is a public will, and that if they do not heed that will, their own positions are in question," says Captain Cousteau. Already, over one million signatures supporting this concept have been collected.

The campaign is spearheaded by the Cousteau Society and Foundation Cousteau and, of course, Cousteau and his son, Jean-Michel, who have been giving media interviews throughout Europe and the USA.

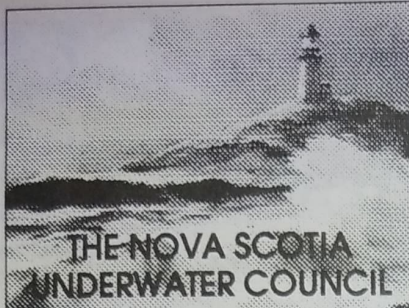
Copies of the petition for endorsement or circulation are available from Divers World.

Tony Seed

world record for the greatest number of divers to enter the water at the same time.

[Can we beat this at this year's Sea Hunt?]

Colin Frazee-Whitelock



THE NOVA SCOTIA UNDERWATER COUNCIL

Board Members and Staff Area Directors

Cape Breton

Ted Tracz • 557-2020

Central

Ted Iannuzzi • 461-0049

Fundy-Highlands

Garry Mattinson • 895-3905

South Shore

Dale K. Smith • 275-4471

Valley

Ed Lawrence • 765-5812

Executive

President

Roland Lewis • 562-2457

Vice-President

Wayne Bell • 465-3880

Treasurer

Suelle Morrissey

Secretary

Rob Snelling • 429-6067

Past President

Lynn Gallant • 434-3675

Editor, Mbr'ship secretary

Colin Frazee-Whitlock • 864-1157

CORS administrator

Marcel Maessen • 425-5450

Instructor membership

David Gough • 864-3046

NSUC Member Clubs

Aqualantic Scuba Club

P.O. Box 2944, Dartmouth E.

Dartmouth, N.S. B2W 4Y2

Tel.: 434-2768

Membership is open to individuals, families, clubs or commercial enterprises. Dues are set annually - usually at the AGM. Members' fees for 1992-93 are \$20 for individuals, \$30 for families, \$10.00 for students and \$50.00 for commercial enterprises. Membership is also open to clubs at \$25. Individuals may join by sending an application or letter with the fee to the Membership Secretary.

NOVA SCOTIA UNDERWATER COUNCIL

P.O. Box 3010 South, Halifax

Nova Scotia B3J 3G6



Spring Thoughts

President's Report

As I write this column the sun is shining brightly, the temperature is actually in the plus range and, yes — the snow banks are at last receding. You all know what that means: the diving season is about to begin. Dust off your gear and head for the deeps! But wait! What is wrong with this picture? **Stop, think, act.** How long since that last dive — and just how deep or strenuous was it? Maybe you need to get in shape — just a little?! Perhaps you should get to the pool and exercise those swimming muscles. Have you read your diving manual lately? Do you still remember how to work the tables? When is slack tide at your intended site? Think about it! I strongly recommend seeking out an instructor (listed on p. 5) for a short refresher. A first aid course would be a great idea. One more thing: don't forget to have your equipment serviced. I'm sure you'll want the first dive of 1992 to be enjoyable and definitely not your last. Prepare for it wisely.

The big buzz for several months has concerned the upcoming diving show. Read all about it in these pages. It promises to be an extravaganza with something for everyone. Mark the weekend on your calendar right now (May 9-10) and tell your non-diving friends as well. Ted and Mike will need many volunteers. We all know these events do not just happen. Do something for the diving community and yourself; **get involved.** Offer your help — now.

Speaking of volunteers, there have been some changes to your Board of Directors. The resignation of the Treasurer, Dave Rodwell, was regretfully accepted. With his busy life, Dave found he could no longer afford the demands of the position. On behalf of you all, I thank him for his contribution and wish him well. Suelle Morrissey, who has considerable experience with liquid assets, being with the Liquor Commission, has

assumed the Treasurer's duties. Two other new Board members attended our March 7th budget meeting. Ed Lawrence was officially made Valley Director, and Dale Smith was welcomed as Director for South Shore.

All positions (except Commercial) are now filled. Nevertheless, due to the rotating nature of the Board, a **Call for Nominations** will be found in this edition. The **Annual General Meeting**, another important date, is set for Saturday, May 30, MicMac Boat Club. Plan to attend and make your views known.

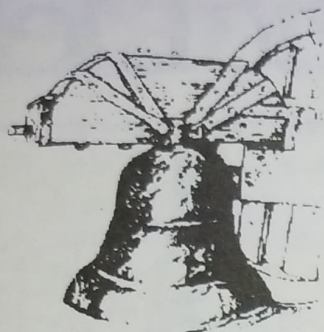
Lastly, the Canadian Federation for Underwater Activities (CFUA) will be meeting in Toronto at Underwater Canada. I will attend that meeting as your representative. A report on the activities will appear later.

Remember: **Safe diving is no accident.**

Roland Lewis

END OF YEAR MEMBERSHIP SURVEY

Membership 88-89	185	
Membership 89-90	213	+ 15.14%
Membership 90-91	263	+ 24.41%
Membership 91-92	292	+ 10.19%
<i>By Area</i>		
Cape Breton	13	4.45%
Central	174	61.64%
Fundy & Highlands	3	1.02%
Out of province	10	3.42%
South Shore	36	12.33%
Valley	50	17.12%
<i>By Gender</i>		
Male	233	79.80%
Female	59	20.21%
<i>Other</i>		
Family	15	
Renewals	96	32.99%
Loss of previous mbrs	169	63.77%
Gain of new mbrs	196	67.12%
<i>By County</i>		
Annapolis	37	12.67%
Antigonish	1	.34%
Cape Breton	13	4.45%
Colchester	3	1.03%
Digby	3	1.03%
Hants	5	1.71%
Halifax	178	60.96%
Kings	5	1.71%
Lunenburg	3	1.03%
Out of province	10	3.42%
Queens	1	.34%
Shelburne	3	1.03%
Victoria	2	.68%
Yarmouth	28	9.59%



Notices to members

NOVA SCOTIA UNDERWATER COUNCIL

§ Notice of Annual General Meeting

The Nova Scotia Underwater Council will be hosting an Annual General Meeting in the Halifax area on 30 May 1992; from 10:00 am to 12 noon for Board members, and from 1:00 to 6:00 p.m. for the general membership, to be held at the MicMac Boat Club, Prince Albert Rd., Dartmouth. More details to follow.

§ Call for Nominations

The Nova Scotia Underwater Council is inviting nominations for the following positions to be elected at the Annual General Meeting, being held in Halifax on May 30, 1992:

Vice President • Treasurer • Cape Breton Area director • Fundy-Highland Area Director • Commercial Director

All Directors' positions will be for a two year team with the exception of the Commercial Director's position, which is a one year term.

Nominees must be current members of the Nova Scotia Underwater Council. The Commercial Director must be an owner or designated employee of a Commercial member and is elected by the Commercial membership.

Deadline for Area Director nominations is April 10, 1992.

Nominations for all other positions will be accepted up to the date of the AGM.

Forward names of nominees to:

NSUC Nominations Committee, PO Box 3010 South, Halifax, N. S. B3J 3G6
Robert Snelling, NSUC Secretary, March 11, 1992

Criteria for the Roger Aggett Award

"An active volunteer Council member who has made a significant contribution to the safety, enjoyment, image or growth of sport diving in Nova Scotia."

Election

To be elected by mail ballot by the Board of Directors. Ballots to be returned no later than two weeks prior to the AGM.

Nominations

Can be nominated only by members of the NSUC. Nomination call to be submitted to *Bottomtime* by the Secretary 90 days prior to the AGM. Nominations to be in 45 days prior to the AGM (to be held May 30, 1992).

§ Copies of the NSUC Constitution are available on request from the Secretary, Rob Snelling.

§ A subscription to *Divers Free Press* will be paid for by the NSUC as part of your annual membership.

§ We have conflicting dates as to the founding of the NSUC. If anyone has any information, including photos or other records, would they please contact the Editor ASAP.

See also page 10, amendments to the Constitution

NSUC Member Instructors

Austin Baird

Home 492-2653

Noel Battcock

Home 422-5274

Michael Bayer

Home 464-1139

Wayne Bell

Home 465-3880

Michael Chambers

Home 454-4296

Ches Chaulk

Home 765-8527

Darin Connors

Home 443-1150

Carol Anne Draper

Home 757-2149

Gary Edwards

Home 883-9392

Tim Gay

Home 864-0558

R.R. Girourd

Home 434-3651

David Gough

Home 864-3046

Ted Iannuzzi

Home 461-0049

Ken Jardine

562-6061

T. J. Kenchington

Home 889-3555

Roland Lewis

Home 562-2457

Gordon McVicar

Home 539-8340

Brian J. Macdonald

Home 564-1823

Rob Mack

453-0762

Lorne Piercey

Home 865-7680

Don Rodgeron

Home 835-8833

James Semple

Home 443-1150

Bob Smith

Home 462-0738

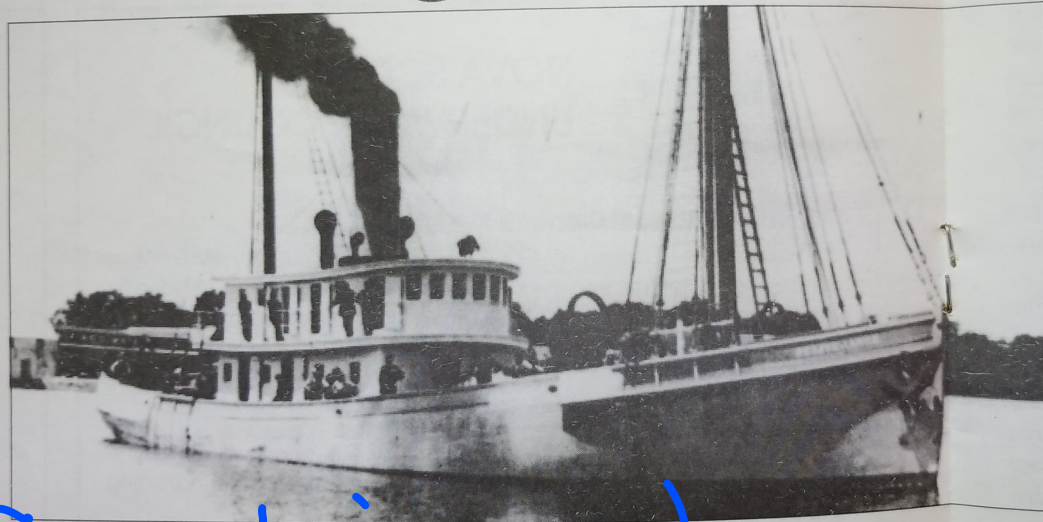
Dale K. Smith

Home 275-4471

Michael Turney

Home 506-382-9776

Diving The Deliverance



the wreck of the *Deliverance* and even today — mostly because of its depth — not many divers have been out to this remarkable site.

Last summer, 74 years after the sinking, a small group of divers prepared themselves by doing last minute checks prior to entering the water from our dive boat, *Dive Com 3*, for what will be a truly spectacular dive on the *Deliverance*. It was 11:00 am, Sunday, September 29, 1991. Myself and diver Steve

Tower are the second dive team to go over the side.

Slowly we begin our descent, following the anchor line down into a blue-gray haze. At a depth of 80 ft., the wreck appears: at 110 ft., we land on the stern

For 56 years the wreck of the *Deliverance* lay undisturbed in 120 ft. of water, just a short distance from the mouth of Herring Cove. Then, in 1974, a team of divers from Parks Canada came across her remains while doing an archaeological study of the 18th century ship, *La Tribune*, wrecked at the mouth of Herring Cove. It wasn't until the early 1980's that sport divers began visiting

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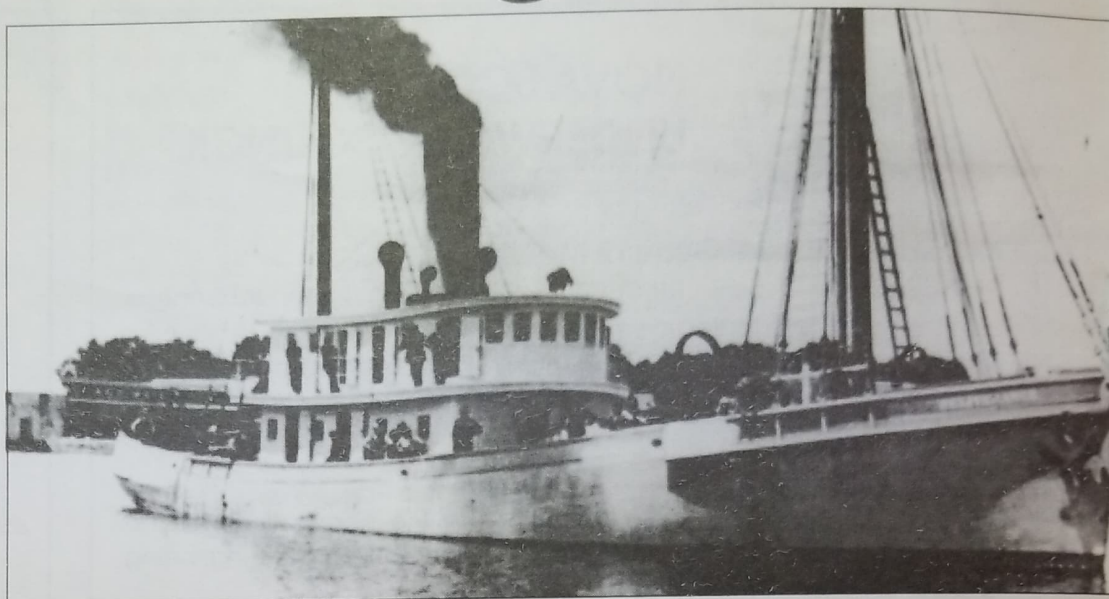
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Diving The Deli

■ "It wasn't until the early 1980's that sport divers began visiting the wreck of the *Deliverance* and even today — mostly because of its depth — not many divers have been out to this remarkable site."



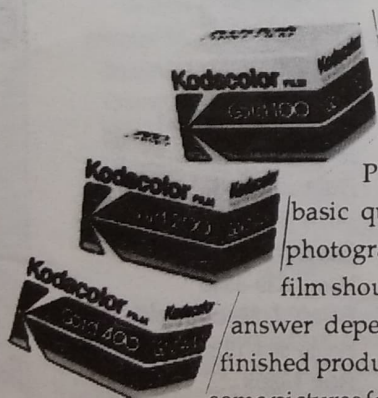
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that the water was rapidly making head way and those aboard the stricken steamer prepared to abandon ship. Within minutes, the *Deliverance* went to the bottom stern first. The time was 9:45 am.

For 56 years the wreck of the *Deliverance* lay undisturbed in 120 ft. of water, just a short distance from the mouth of Herring Cove. Then, in 1974, a team of divers from Parks Canada came across

her remains while doing an archeological study of the 18th century ship, *La Tribune*, wrecked at the mouth of Herring Cove. It wasn't until the early 1980's that sport divers began visiting

A POSITIVE



Probably the first and most basic question which a beginning photographer asks is: "What kind of film should I put in my camera?" The answer depends on your plans for the finished product. Do you just want to have some pictures for a photo album and to hang

on a wall? Or — perhaps you would like to show some photos to a large group or have them published in a dive magazine.

Let us look at a few facts which may make that decision a bit easier to make.

Colour vs. Chrome

Should you shoot negatives or slides? When you purchase boxes of film, those products whose title ends in the word - "color" (e.g., Kodachrome, Ektachrome, Fujichrome) are negative films from which prints are made. Film titles which end in the word "chrome" (e.g., Kodachrome, Ektachrome and Fujichrome) are slide or positive transparency films.

Negative film has a major advantage over slide film in its exposure latitude. This means that a photographer could possibly make a mistake in exposing the film by two f-stops (+ or -) and still be able to get a picture which can be acceptably printed. But slide film which is under or over-exposed by more than one f-stop (+ or -) is ruined. The latitude for negative film is about 4 f-stops and for slide film is only about 2 f-stops. Negative film would be more forgiving with the mistakes of a beginning photographer. The disadvantage would be that unless the photographer can learn to "read" the density of the negative, one could continue to make exposure mistakes without knowing it.

If you ever intend to capture a 'great image' on film and have it published in a well-known magazine, then I suggest you shoot only slide film. Magazines only accept slides for publication if the subject is extremely rare. Remember that prints can be made from slides very easily and you can still have that great picture hanging on your living room wall. Slides can be made from negatives but they cannot be made to the same quality as the transparency film.

verance

the wreck of the *Deliverance* and even today — mostly because of its depth — not many divers have been out to this remarkable site.

Last summer, 74 years after the sinking, a small group of divers prepared themselves by doing last minute checks prior to entering the water from our dive boat, *Dive Com 3*, for what will be a truly spectacular dive on the *Deliverance*. It was 11:00 am, Sunday, September 29, 1991. Myself and diver Steve Tower are the second dive

team to go over the side.

Slowly we begin our descent, following the anchor line down into a blue-gray haze. At a depth of 80 ft., the wreck appears: at 110 ft., we land on the stern

of the wreck next to a coil of old umbilical hose.

Visibility on this dive is about 20 feet. Steve Tower turns on his light and leads us towards the huge boiler. As we make our way forward, we are amazed by the condition of the wreck. The *Deliverance* is 110 feet long, and 32 feet wide. Not only is the wreck mostly together and fairly intact — not being susceptible to the action of waves, because of its depth — but it is littered with brass. You can see its bow, stern and midsection, but the superstructure has caved in, making penetration impossible.

As we pass over the boiler where the wheel house and bridge once stood, we see that all that remains is a mass of metal and wood, slowly showing signs of caving inward. The remains of the wheel house and bridge lie right beside the wreck. Forward of the boiler, we continue our journey towards the bow.

This section of the wreck is covered in silt and is home to a large wolf eel curled

up against a piece of the wreckage. On this particular dive, it's also the only inhabitant we see. The wreck is littered with pollution — beer cans, golf balls, garbage, etc. It is also very evident that we are near the sewage outfall at Herring Cove.

After a quick look at the bow section, it's time to return to the anchor line to begin our ascent back to the surface. Our brief visit to this wreck was limited to 20 minutes because of the depth.

After a short safety stop, we surface, in front of us the bow of our dive boat. This has been another memorable dive at one of Halifax Harbour's best dive sites. We will return again.

Terry Dwyer, March, 1992

Details The minimum level to dive this wreck is advanced. Contact a dive shop. "Diving Nova Scotia" is a regular feature of Bottomtime, focusing on dive sites, shipwrecks, noteworthy dives and other material of interest to all scuba divers (and snorkellers).

Contributions welcome.

LOOK AT FILM

Film Sensitivity

What film speed should one use? ASA, DIN or ISO give a number (i.e. 25, 64, 100, 400) to let the purchaser know how sensitive the film is to light. The higher the number, the faster and grainier the film is. For example the difference between ISO 25 and 64 would be about 1 1/2 f-stops and the difference between ISO 100 and 400 would be 2 f-stops. A film with a number of 25 has very small grain: it takes more light to expose it, but great enlargements can be made from it. This is a really great film to use in close-up photography where lots of light is available from a strobe. Films with a sensitivity range from 50-100 are good for most conditions of underwater photography. Higher speed films are just used occasionally under extreme low light conditions where a strobe cannot be used effectively.

Film Types

There are many makes of film on the market and it may be difficult in knowing which one to choose. The differences are mostly subtle ones and the real difference is mostly personal preference.

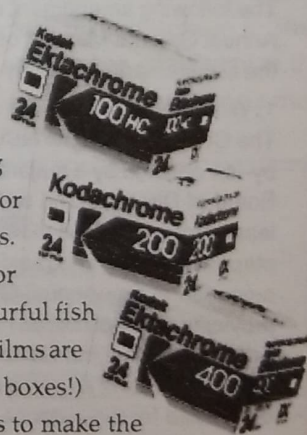
Here are a few ideas (probably just pure fantasy and not based

on facts) that I use on choosing films. Kodachrome films are best for bringing out the reds in photos. (They come in red boxes!) Great for close-ups of corals, sponges, colourful fish and some dive suits. Ektachrome films are best for blues. (They come in blue boxes!)

They are great in southern waters to make the background on reef pictures look more natural. Fujichrome are best for greens. (Of course they come in green boxes!). Great for our plankton-laden temperate waters. Actually, these films are all good at rendering colours, and one could be hard pressed to tell the difference unless placed side by side.

Fujichrome has a great new film out called Velvia (ISO 50). This film has a very fine grain similar to Kodachrome 25 and great colour impact especially in the reds, yellows and greens. However, I feel it doesn't have as great colour contrast abilities

continues on page eight



Positive film tips

Continues from page seven

as the Kodachromes, i.e., bringing out the details in shaded areas of the photo. Great film for close-up photography.

It is best to use one type of film most of the time and get to know it well under all kinds of conditions. After a while you will know what to expect from it even before you take the photo. Personally I like to use Kodachrome 64. It gives great colours under most conditions and it is cheaper than the films that have to be processed locally.

The major problem with Kodachrome is that the film has to be sent away by mail and may take from ten days to two weeks to be processed. Most of the other films can be same-day processed with the E-6 processing. A photographer can see the results (mistakes!) usually the same day and make corrections. This could be critical on a vacation trip if something has gone wrong with the camera system.

Double Your Pleasure Slide Tip The best film to use if you plan to make lots of duplicate slides is Ektachrome. This is because the companies use Ektachrome Duplicating film and since they are basically similar, one does not get a shift in colours which you would get from other film types. Kodachrome duplicates have much more contrast and de-

tail is lost in the darker areas of the photo.

Cheap Film Tip Consumers Distributing usually offers the cheapest price in town for Kodachrome 64 film-36 exposures which includes processing. Their current price is \$15.49 (before taxes) per box or \$29.88 (b.t.) for the double (72) pack. This is approximately \$5.00 cheaper per roll than the local film shops!

Mailing the exposed film back to the Kodak Processing Lab costs over \$1.50. Photo Shops (Carsand Mosher) will often mail the film for you for a \$1.00 for one or more rolls. That method is the safest, cheapest and fastest way (by several days).

Ektachrome 100 film cost is approximately \$11.00 (b.t.) per box and another \$10.00 for the processing. So if you don't mind the wait, Kodachrome is the better buy.

Traveling Film Tip Take at least twice the amount of film which you think you need! Film is expensive in foreign countries and not always available. One always shoots more film than we planned when we travel. Take the film out of their cardboard boxes and place them in clear (if they are not already) film canisters. This will take up less packing space and allow Customs to see what you are carrying on the plane with you. Do not allow your film to be X-rayed even if they say it is not harmful! This is especially the case if the film has been exposed. [In our next article, we will discuss light metres.]

Tenth in a series on U/W Photography by Bob Semple



NOVA SCOTIA UNDERWATER COUNCIL

NOTICE OF PROPOSED AMENDMENT TO THE BY-LAWS OF THE NSUC

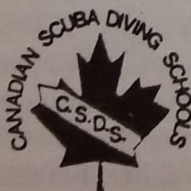
The following amendment will be brought forward at the NSUC Annual General Meeting on 30 May 1992. This notice satisfies the requirements of the By-laws.

1. Whereas Article 25. Amendment of Constitution now reads: The Constitution of the NSUC may be repealed or amended by by-law enacted by a majority of the Directors at a meeting of the Board of Directors and sanctioned by an affirmative vote of at least a majority of the members at a meeting duly called for the purpose of considering said article. The Constitution may also be amended at any Annual General Meeting by the membership providing notice of motion has been promulgated thirty (30) days prior to said Annual General Meeting, and sanctioned by an affirmative vote of at least a majority of the members at a meeting duly called for the purpose of considering the said article.

Resolved that Article 25 Amendment of Constitution be amended to read:

The Constitution of the NSUC may be repealed or amended by by-law enacted by a majority of the directors at a meeting of the Board of Directors and sanctioned by a resolution passed by not less than three-fourths (3/4) of such members entitled to vote as are present in person or by proxy, at a general meeting duly called for the purpose of considering said article. The Constitution may also be amended at any Annual general Meeting by the membership provided notice of motion has been promulgated thirty (30) a resolution passed by not less than three-fourths (3/4) of such members entitled to vote as are present in person, or by proxy, at a general meeting duly called for the purpose of considering the said article.

Rational to satisfy the regulations in making amendments made to constitutions as required by the By-laws of The Societies Act of Nova Scotia.



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Incident Prevention

The Nature of Incidents

Incidents are rarely the result of one causative factor but are more commonly the result of a combination of factors. Each factor in isolation may be quite innocuous, but as the combination builds, the stress on the diver increases ever more rapidly until it is beyond his capabilities.

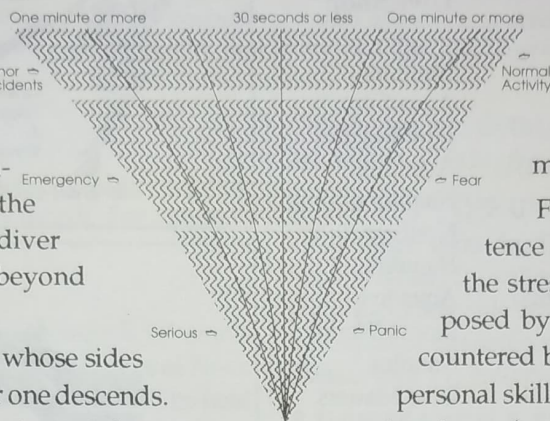
This effect has been likened to a pit whose sides become steeper and steeper the further one descends. While the slope is gentle, it is easy to retain one's footing and to climb back out. As the descent continues, one's footing becomes less sure, and it becomes more and more difficult to climb out. Ultimately, all grip is lost, and the resulting slide into oblivion at the bottom of the pit is irreversible.

Just as the uncontrollable slide into the pit is avoidable by climbing out before the slope becomes too steep, so can many incidents be avoided if the causative factors are recognized and remedied before they can combine.

Stress and Panic

Stress is a factor which appears whenever a person is placed in an environment or a situation in which they do not feel comfortable. The cause may be physical, such as the effects of cold or exertion, or may be entirely psychological, such as darkness or poor visibility. It is unique, however, in that it is a factor common to all diving incidents.

A diver's reaction to stress is a highly individual thing. For some divers, stress will be the spur that they require to accomplish something they would not normally be expected to achieve, while other normally competent divers



may have their performance substantially impaired. Taken to extremes, severe stress may well result in panic, a factor which probably contributes to most underwater fatalities.

Familiarity with, and a proven competence at dealing with a situation, both reduce the stress imposed on the diver. The stress imposed by entering an alien environment can be countered by thorough and progressive training in personal skills and training for controlling emergency situations. An adequate standard of physical fitness helps to reduce the stress imposed by exertion, while suitable equipment counters the stress imposed by the environment.

Stress builds up in an insidious manner, and by its very nature is unlikely to be recognized by the individual affected. The diver concerned may even subconsciously try to disguise the symptoms so as not to appear to have 'chickened out'.

The symptoms of stress vary markedly but those that a diver may notice in his partner include, but are not limited to, the following:

- nervousness • changes in mood • rapid irregular breathing • changes in orientation • erratic, uncoordinated movements • preoccupation with a trivial problem • freezing • problems with buoyancy control • no response to signals • wide staring eyes, and • vigorous treading of water.

On the basis that prevention is better than cure, be aware of some of the more common factors that contribute to stress. Many can be anticipated and steps taken to minimize their impact, thus avoiding incidents or at least preventing a minor incident escalating into a major emergency.

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Learn to scuba dive

Upcoming courses in Nova Scotia

Date	Agency	Course	Dive Shop
March			
3	SSI	Basic	Nautilus
4		Scuba Intro (Acadia)	Aquadive
7-8	PADI	Basic Open Water	Dive Masters
7-8	PADI	Basic Open Water (Pictou)	Aquadive
9		CPR	Nautilus
11	PADI	Basic Open Water	Northern Shore
13-14		First Aid	Nautilus
14-15	PADI	Basic Open Water (Acadia)	Aquadive
19-22	NAUI	Equipment course	Divers World
29	SSI	Basic	Nautilus
	PADI	Under Water Nav	Dive Masters
	PADI	Open Water (call)	Aquadive
April			
7	PADI	Basic Open Water	Northern Shore
14	ACUC	Basic Open Water I (to May 7)	Divers World
20	PADI	Basic Open Water	Northern Shore
	PADI	Basic Open water (call)	Dive Masters
	PADI	Specialty (call)	Dive Masters
	PADI	Basic Open Water (call)(Dal)	Aquadive
May			
5	PADI	Basic Open Water	Aquadive
6-10	NAUI	Open Water II	Divers World
12-28	NAUI	Basic Open Water I (to June 4)	Divers World
15-17	PADI	Basic Open Water (New Glasgow)	Aquadive
16-24	NAUI	Instructor Course (Greenwood)	Greenwood
	PADI	Open Water (call)	Dive Masters
	PADI	Speciality (call)	Dive Masters
June			
1	PADI	Dive Rescue	Northern Shore
1-24	ACUC	Basic Open Water I	Divers World
9-14	NAUI	Advanced Course	Divers World
14-30	NAUI	Basic Open Water I (to Aug 6)	Divers World
15-19	NAUI	Open Water II	Divers World

Aqua Dive 469-6948

Dive Masters 465-2526

Divers World 876-0555 Nautilus School Of Diving 454-4296

Northern Shore Diving Centre 429-8265

Notes: Divers World has resumed its seven day a week schedule.

Dive Courses and Events is a regular listing organized and provided by the staff of *Bottomtime*. Please contact the Editor.

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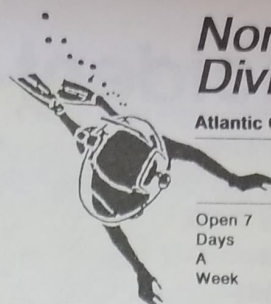


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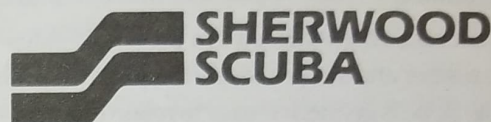
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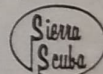
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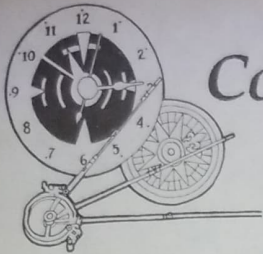
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Coming Events

*Coming events is a calendar of events of interest to divers in Nova Scotia and the region. To have your event included, please write to **Bottomtime**.*

§ ACQUALANTIC DIVE CLUB

The club sponsors a full program, including regular meetings on the second and fourth Wednesday of every month. *For information, call 434-2768.*

§ THEY CAME BY SEA

Explorers, adventurers, early settlers, and thousands of immigrants came to Canada by sea. Many touched the shores of Nova Scotia or passed through Halifax. A series of events will be held centred around this theme, to mark the 500th year since the voyage of Columbus, Maritime Museum of the Atlantic. *For information, call 424-7490, 1675 Lower Water.*

§ UNDERWATER CANADA

The 20th anniversary of Underwater Canada, Canada's national dive show. A week-end of fun, films, information and exhibits, April 3-5. *For information, call (416) 495-4245 or Fax (416) 495-4310.*

§ DIVERS SOCIALS

Hosted by the NSUC, at Oakwood House, Banook Drive, Dartmouth. Come and mingle with divers from all over the province. Games • Munchies • Cash Bar. Saturday, March 28, April 11. Everyone welcome. *Call 423-4243.*

§ TITANIC - THE 1991 EXPEDITION

On the 80th anniversary of the sinking of the "unsinkable", Steve Blasco, Chief Scientist, Geological Survey of Canada, will tell us about the Canadian-Soviet-American expedition in 1991 in which 17 dives were made to the wreck, show slides of both the wreck and

the production of an IMAX film. Reserve a seat: *call the Maritime Museum 424-6491, from April 6.*

§ TITANIC - THE UNDERWATER VIEW

1986 Video taken by Dr. Robert Ballard. Glenm Gilbert, Cdn. Seabed Research, will tell us about u/w search and survey equipment including side scan sonar and remotely operated vehicles. Examples of this equipment will be on display. Maritime Museum, Tues., April 21, 7:30 pm.

§ U/W SEARCH & SURVEY FOR YOUNG PEOPLE

See a video of the wreck as it was found in 1986, and learn about side scan sonar, remotely operated vehicles and the Geographic Information System of ship wrecks. You'll get a look at equipment and a chance to meet the people who use it. In addition, see a demonstration of computer GIS database software that shows wreck positions and accepts questions such as "Which wrecks carried GOLD?" For children age 10 and up. Pre-register: *call the Maritime Museum 424-6491, from April 21.*

§ SCUBA FEST '92 • ACTION-PACKED DIVING EXPO

Dartmouth Sportsplex, May 9-10. *See page 1,12 for details.*

§ NSUC AGM

May 30, from 10 am, MicMac Boatd Club, Dartmouth. *See page 5.*

§ NSUC SEAHUNT

The NSUC presents the 12th annual SeaHunt. A fun-filled event for certified scuba divers. Divers retrieve tokens within a designated area. They are exchanged for tickets which are used to draw for prizes. Crystal Crescent Beach, Sambro, N.S.

THE NSUC LENDING LIBRARY

1991 Sport Diver Open Water Vol. 1, Pts. 1 & 2	(video)
<i>Contains Using Skin Diving Equipment</i>	(video)
<i>Using Scuba Diving Equipment</i>	(video)
Sports Diver Open Water Vol. 2, Pts. 1 & 2	(video)
Bouyancy/Out Of Air Pt. 1	(slides)
Rescue/Accident Management Pt. 1	(slides)
Rescue/Accident Management Pt. 2	(slides)
Dive Promotional Programme	(slides)
<i>Tapes for the above.</i>	
Underwater Louisburg	(video)
Underwater Hockey	(video)
Hyperbaric Video	(video)
Hyperbaric Video (beta)	(video)

Drysuit Instruction	(video)
Drysuit Instruction	(slides)
Sport Diver Advanced Vol. 1, Pts. 1-3	(video)
<i>Contains: Diving Equipment • Boat Diving</i>	
<i>Underwater Navigation</i>	
Sport Diver Advanced Vol. 2, Pts. 1-3	(video)
<i>Contains:</i>	
<i>Limited Visibility Diving • Diver Stress & Rescue</i>	
<i>Deep Diving</i>	
<i>Neal Watson's Undersea Adventures</i>	(video)
<i>Louisburg Marine Heritage Pts. 1 & 2</i>	(video)
<i>Contains: Part 1 in English • Part 2 in French</i>	
<i>Australia Discover It</i>	(video)
<i>Dive Nova Scotia Pts. 1-3</i>	(video)
<i>Contains:</i>	
<i>Part 1 Dive Nova Scotia • Part 2 Dive Nova Scotia</i>	
<i>Part 3 Wreck Diving</i>	

All videos are VHS unless otherwise stated

Library Lending Policy

There is a 10.00 deposit for each item borrowed from the library. The deposit will be forfeited if the item borrowed is not returned within 21 days from the date of posting to the borrower. All costs incurred in shipping payable by the borrower.

Contact Rob Snelling, Secretary, at 429-8067

ScubaFest '92: U/W extravaganza

Continues from page one

wreck inventory is used to help to identify and manage wrecks and how divers and other members of the public can contribute to the understanding and preservation of this valuable part of our heritage.

Acclaimed Underwater Photographer Bob Semple will hold a workshop on underwater picture taking. Bob's workshop at last years SubSea Horizons was a major attraction, so it is recommended that you book early for this lecture.

Austin Baird from the Fleet Diving Unit will host a workshop on equipment maintenance. His knowledge and experience will make this a must for all sport divers. Scuba instructor Don Rodgerson will be giving a talk on Diver Safety. This lecture is sponsored by the NSUC and will be free for all who attend.

Film Show

On Saturday night Charlie Doucette will host the film show "Subsea Horizons" that will feature some superb underwater cinematography by local and international film makers.

Dr. John Smith is scheduled to host a seminar on Hyperbaric medicine and will be available to answer questions concerning diving related medical practices.

ACUC and DAN (the Divers Alert Network) will be offering an Oxygen Administration course. The cost to attend is \$75.00 and must be booked in advance of the show in order to coordinate the paperwork. For more in-

formation regarding the course please contact your local dive shop.

In the main arena of the Sportsplex attendees will have the opportunity to visit the exhibit booths of several dive retailers and manufacturers, as well as many of the underwater related exhibits and displays.

At the NSUC booth you will be able to have your picture taken with an actual life ring from the *Titanic*. Several artefacts from the *Titanic* will be on display, so please drop by.

Going for the Guinness

We will be making excellent use of the pool at the Sportsplex this year. 32 divers will be attempting to set a new world record in **Underwater Tricycling**. The time to beat is 116 miles in less than 75 hours. Underwater cameras will be installed so that attendants will be able to monitor the team's progress. Everyone will be able to help the team by sponsoring them with a per mile pledge so they can raise funds to enhance future events like the **Sea Hunt** and **ScubaFest '93**.

Also in the pool Saturday and Sunday, the Halifax Aqua Novas will be performing their synchronized swimming program. They will be heading to the Nationals in Quebec two weeks later so this will be an excellent opportunity for everyone to come out and support their efforts.

Hockey?

Those of you who have ever been curious about Underwater Hockey will be in for a real treat. The NSUC will be hosting an exhibition game in the Sportsplex pool. Again, our underwater

cameras will be covering the game so that everyone can see the skills required to play this exciting game.

U/W Photo Contest

There will be an Underwater Photo Contest with some great prizes. Entry forms will be published in the Halifax Herald the first week of April. All are encouraged to send in your photos - amateur and professional.

As you can see a jam-packed two day Expo is planned. So tell your friends and neighbours and come out and support the valiant effort being made to expose the Maritimes to what we call "*Canada's Ocean Playground*".

Thanks for your support — "SEA" you at the show!

*Ted Iannuzzi, Co-chairperson
NSUC ScubaFest '92*



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address and
postal code

PERMISSION TO DIVE



**Halifax Port Corporation
Société du Port de Halifax**

December 18, 1991

G. Robert Snelling
Nova Scotia Underwater Council
Dear Mr. Snelling:

In response to your request to undertake diving activities in the waters of Halifax Harbour for the year 1992, permission is granted subject to the same conditions as in the past.
If we can be of any further assistance, please call me at 426-3648.

R. Sherman
Harbour Master

DIVERS BOUTIQUE

NSUC Clothing

White golf shirt medium	
Gold lettering	\$10.00
White medium golf shirt	
Navy blue lettering	\$10.00
Blue small sweatshirt	\$10.00
Navy blue large V-Neck sweater	
Gold lettering	\$15.00

NSUC tacky t-shirts	\$5.00
(Various colours)	
NSUC decals	.75
NSUC Hyperbaric	.50