

BOTTOMtime

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



Weird and wacky water sports

You've heard of ice hockey, field hockey and ball hockey, but do you know about underwater hockey? Some Canadians just can't stop playing the game! There are even two different ways to play it underwater.

The first way is the hardest type of hockey yet invented because it's played by certified scuba divers dressed in dry suits designed for chilly water. That's because the divers play in cold water standing upside-down under the ice. And the game is short. It can only last as long as the amount of air time contained in a compressed-air tank — less than 30 minutes-worth — that is, if the divers don't freeze beforehand.

The second way to play underwater hockey is easier but it's still reserved for good swimmers who know how to dive fast and use snorkeling equipment. Adults play underwater hockey in the deep end of a swimming pool, 2-4 meters deep, plus or minus 10%. They wear diving masks with a snorkel and fins. The puck is flat and

thus stays on the bottom. The sticks are about 250-340 millimeters long with a curved wide end. There are at least six players on each team, and usually four play offence and two play defence. One woman who plays underwater hockey in Halifax, Pam Geddes, says it's a skillful sport to play because you have to know how to hold your breath. SCUBA divers also play this form of hockey with their diving gear on. "There is a lot of swimming (kicking) fast, and turning or changing direction quickly to confuse opponents. But great amounts of strength are not necessary," she adds. "It helps to have a good lung capacity. Also it has been said that females are generally more buoyant and have a harder time staying down. Teenagers also play."

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ScubaFest 92 features an all-round, informative and exciting nautical programme

"NOW IS the time when all good divers must come to the aid of their council ..." ScubaFest '92 is here. After all the obstacles and confusion, the show is on track. Many thanks must go out to all those who have stood behind this event through thick and thin. As was previously announced in the last issue of *Bottomtime*, we have been fortunate to bring together an exciting two-day symposium of nautical delight.

Titanica

Our main speaker, Steve Blasco of BIO, has been the attention of the national and international media lately. The *Titanic* expedition he took part in is

being made into a spectacular film by the people at IMAX/Toronto. Dr. Joe McGuinness of "Jaws" fame is the executive producer of this film, and



has recruited Mr. Blasco to narrate the film "Titanica" due out this summer to Imax theatres. Those of you who come to ScubaFest '92

continues on page 2

About this issue of *Bottomtime*

We are publishing this Special Issue with a circulation of 600 copies to reach more divers than in the past. Thus, we have combined *Bottomtime* with the Show Programme for ScubaFest '92 — rather than having them printed separately as in the past. We will be distributing some 300 copies

free to attendees to popularize our publication and the NSUC, and another 250 copies of the centrefold — the Show Programme for ScubaFest '92 — have also been produced. Members are asked to bring their own copies they receive in the mail, being the Programme, with them to the show.



Editorial

ABOUT THIS ISSUE

As noted on page one, we are publishing this Special Issue to reach more divers than in the past. This Special Issue may also be the first in a series of special issues which we plan to have to ensure that our publication and the voice and concerns of the NSUC is available to more people in this maritime province.

Membership, *Bottomtime* and You

We are living in difficult times. Besides the recession and various crises, the governments at all levels are making cutbacks all the time that should be obvious from any newspaper you will see. This does not exclude amateur sports and sport organizations such as the NSUC. We took a small cut last year in our grant. Who knows what might happen this year? There is a need for people to exert themselves to find a solution to the various problems.

On our part, we will continue to provide a service to the divers of Nova Scotia and we are certain that you will contribute to make an effort yourselves to find a solution to the problems we face.

The estimated cost of the *Bottomtime* for this coming fiscal year is some \$5000 (six issues). The Sports and Recreation Commission grant usually allocates us \$1000 and revenue from advertising last year was \$1200. Based on previous figures, the cost to the membership would be \$3380. The estimated cost to the membership overall — per member, assuming that, a) membership stays the same b) all are full paying members — amounts to 55% of membership dues. That is, if our costs stay the same, and remembering that we have been given a very big, but temporary break on design, production and printing costs to help us stabilize the *Bottomtime*.

In spite of economies, the operating costs of the NSUC continue to rise every year. For instance, Board meetings. Board members do not go to meetings to party — as I have heard said on more than one occasion — they are giving part of a weekend on your behalf, at times travelling a fair distance costing them the whole weekend. Can you expect them to pay for this out of their own pockets? So they receive an allowance for mileage, accommodation and meals.

What We Can Do

To reduce costs to members and finance functions, fund-raisers must be held, e.g., the recent socials for Scuba Fest '92. The only function we have that truly makes money is the SeaHunt. This helps us through the year. These worthy endeavours can only work with the support of the membership and volunteers. They also serve the social needs of divers. We invite you to participate.

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.

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
Printing	The Printing House
Nameplate	Tony Seed and Bob Semple

The Nova Scotia Underwater Council

President	Roland G. Lewis
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Another avenue is increasing advertising. No consistent work has been done before. We hope to rectify this problem. We have produced a professional rate card. There is no reason why we should not gross \$1000 in ads if approached professionally. This would help offset the cost of *Bottomtime* to the member. We are also pleased that we have a volunteer, Ted Iannuzzi, to assist in soliciting advertising and to act as events editor.

Our membership has increased over the last four years from 185 to 293 for 91/92. This is a positive sign and shows the necessity of the NSUC for divers.

In ending, let's have your support this year by attending the AGM and other events. Encourage your friends to join the NSUC. Let's have a record breaking year for the Sea Hunt and ScubaFest '92.

NSIC SCUBAFEST '92

DARTMOUTH SPORTSPLEX • MAY 9th and 10th • 1992

will have the opportunity to meet and hear Steve relive his experiences with the American/Soviet/Canadian expedition.

The NHL Comes to Dartmouth

That's right, the "Nautical Hockey League" will hold its first tournament at ScubaFest this year. Four teams will play off on Saturday and will hold a final game on Sunday for the trophy. U/W cameras will cover the games so those in the stands will not miss a minute of action.

Exhibits & Exhibits

A wide variety of exhibitors will be on hand to interest young and old alike. For the kids, the Dalhousie University Scientific Diving unit will

showcase a touch tank in the main arena. This has always been extremely popular during the summer at Historic Properties. Fred Watts of Dal will be manning the booth to explain just what scientific diving is all about, so please bring your children by this display. Other exhibitors include the Connors Diving commercial diving display. Ever wonder how things are built or repaired underwater? Well, drop by the booth and ask. Neil Connors will be bringing several pieces of interesting equipment including a remote control vehicle (ROV) that can go down to places a diver cannot. Also in the main arena both Saturday and Sunday afternoons

you will be treated to a fashion show of the latest in swim/dive/casual wear. So if looking good makes you feel good, be on hand for an inside look at what's hot this summer. Several dive shops will showcase the most up-to-date scuba and snorkeling gear on the market. Drop by their displays. You'll also have an opportunity to fill out ballots to win something great. Thanks again to them for participating.

This list goes on, so mark off the days, Saturday, May 9 and Sunday, May 10. You won't be disappointed. Thank you in advance for coming. "Sea" you at the show!

Ted Iannuzzi, co-chairperson

Dive club news: Aqualantic update — April, 1992

Things are relatively quiet now with the Aqualantic Dive Club — at least compared to last year's fantastic summer of diving. The regular seven or eight winter divers in the club are staying active by getting in the water somewhere most weekends. This is the time to build up brownie points with spouses and children by spending lots of time with them on weekends. This is, of course, one of the required preparations for a busy summer of diving. Beware though, brownie points can have a very short shelf life!

The Aqualantics have done two boat charters so far this year to the Sambro Island shoals. A very successful charter during the first weekend of April gave us great dives on the *Daniel Steinman* and the *City of Vienna*, two of our favourite dive sites. Very good visibility and very cold water (0 degrees) were the order of the day. This time of the year we often have room on the

boat for non-members so — even if you don't want to become a member of the most active dive club in Nova Scotia — you can possibly get in some diving with us! Call our dive officer, Thierry (pronounced Terry) Papion 465-3841. Because of the weather at this time of year, boat dives are usually confirmed only the day before the dive.

Other news

- Seven club members and friends have just recently completed a group purchase of dive computers. By buying as a group, we were able to get our Sherwood Sources for over \$150 cheaper than the regular retail price.

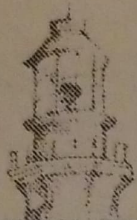
- A group of the gentlemen in the club recently helped Nick Van Stigt celebrate his upcoming marriage to Pat Bryan at a stag party in downtown Halifax. Much fun was had by all and many stories for around the campfire

were experienced. Best wishes to Nick and Pat, who are both members.

- Preparations for the yearly club dive trip are well under way. Around 10 or 12 club members are heading down for a week of diving in the Florida Keys. The people heading down range from newly certified divers to very experienced divers who have been diving for many years. We welcome anyone who is interested in accompanying us. The more the merrier. The date has been tentatively set for the last week of September. Reservations are going to be made in early May.

For more information about the club please feel free to contact me at home 860-3369 or at work 42607104. Our club membership of \$70 includes membership in the Nova Scotia Underwater Council and two free air fills per member per week.

by Grant MacLeod



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

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Roland Lewis • 562-2457

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Treasurer

Suelle Morrissey

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Rob Snelling • 429-6067

Past President

Lynn Gallant • 434-3675

Editor, Mbr'ship secretary

Colin Frazee-Whitelock • 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

I started my last column babbling on about the approaching summer diving season (eternal optimist that I am). What really arrived was another raging blizzard. My Cape Breton co-workers found me muttering in Arabic and calculating flight times to the Middle East. But no matter — life in Nova Scotia is not for the feeble hearted. Thus I suppose it was fortunate I had made arrangements to attend the Canadian Federation for Underwater Activities (CFUA) meeting in Toronto on April 3rd. and I was able to escape 'the island', at least for a time.

Now I know Sydney is a lot smaller than even Halifax, and it has been a long time since I lived in Toronto, but for me to get lost in a hotel — well, I must have been really trying. I suppose it would have helped to have been in the right hotel in the first place. But no matter, I do have a report.

The meeting was held under the chairmanship of Richard Jones, Saskatchewan who did a very capable job of directing the day long session. A variety of topics were discussed which are only summarized here; full minutes will be available later on request. To my mind a sensible approach was taken in that it was decided there will be a division of labour with the different councils responsible for only one or two projects rather than one person trying to do many things. For example Alberta's Don Barrett will act as the information clearing center. Quebec — André Dalphe — will take a hard look at the various insurance plans available to divers with the aim of recommending one plan suitable for all Canadian divers. It is expected better coverage and rates could be achieved by a national policy. The Ontario Underwater Council — Brian Meisner — agreed to use their computer facilities for Incident Registration. A very well thought out three phase plan is now being implemented in Saskatchewan to educate both emergency

services and medical teams on the uniqueness of diving related accidents and the appropriate response and treatment. It is the aim of CFUA that it become a nationally accepted protocol. It is proposed to use the services of a professional lobby office in Ottawa to act on behalf of CFUA on matters of interest to Canadian divers. A verbal offer has been received from a new company to do this work at minimum or no cost for the first year. Efforts are being directed toward recreational water users such as the Canadian Power Squadron, to educate them on the proper conduct upon sighting the dive flag — which is to be standardized as the red/white diagonal rather than code alpha. A tax exempt status cannot be granted until the CFUA is recognized as a non-profit organization. Accomplishing this is the task of John McBride who expects this will shortly become a reality. While the Recreational Scuba Training Council of Canada (RSTCC) has published National Training Standards, it was suggested each provincial consult with their instructors and establish its own standards that would then be brought to the next meeting (Fall, 1992). It is hoped a common set of standards could be established based on other than those proposed by the commercial diving industry. Two pamphlets were shown with the suggestion they be made available to all divers: Safe Diving Practices, and Deep Thoughts — on alcohol consumption and scuba diving. Elections were held with Rick Jones accepting the President's chair; Quebec will name an Executive Vice-President and Treasurer; the Secretary will be from the Manitoba Council; the Western delegate will be represented by Alberta; the Eastern delegate from the NSUC. The Canadian Diver Achievement Awards were as follows: East — Peter White for his presence as the driving force for many years behind: CFUA, OUC, and Underwater Canada; West — Brent Bart for his single

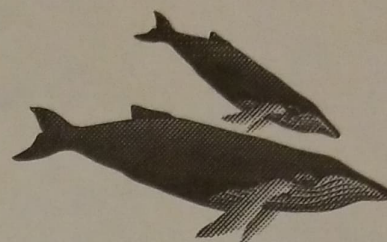
Notices to members

handed role in promoting the recognition of diving in Alberta. Dues for the year remain recognition of diving in Alberta. Dues for the year remain the same (\$250 for NSUC) and I will recommend to our Board that the Council continue its association with CFUA.

As you can see a great deal of business was conducted — all in a very positive manner. With the work done, it was time to enjoy Underwater Canada — which I did to the fullest extent. It was colorful, entertaining, and educational.

As much as I enjoyed the magnitude that was Underwater Canada — and yes, it was a good show — I was happy

to board the plane — along with many other weary diver types and head east. As the activities of the last three days began to catch up with me I wondered however was I going to recharge the batteries for the imminent ScubaFest '92. Obviously it would not be on as grand a scale. Nonetheless I was confident it would be the best little dive show in the east. So, even before the plane touched down, I was anticipating the adventure of ScubaFest '92 where I knew I would know most of the attendees — and have just as much fun if not more. See you all there — and remember: Keep it safe down there!



The NSUC has again this year adopted a Fundy Humpback Whale. Our whale is called "Marble". The BIOS Brier Island Ocean Study group is a charitable organization operating out of Westport, Digby County. We will soon be receiving a Flukeprint of our whale! If you would like to adopt your own whale — \$ 25.00 donation required — please write to Deborah Tobin at postal code B0V 1H0.



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:

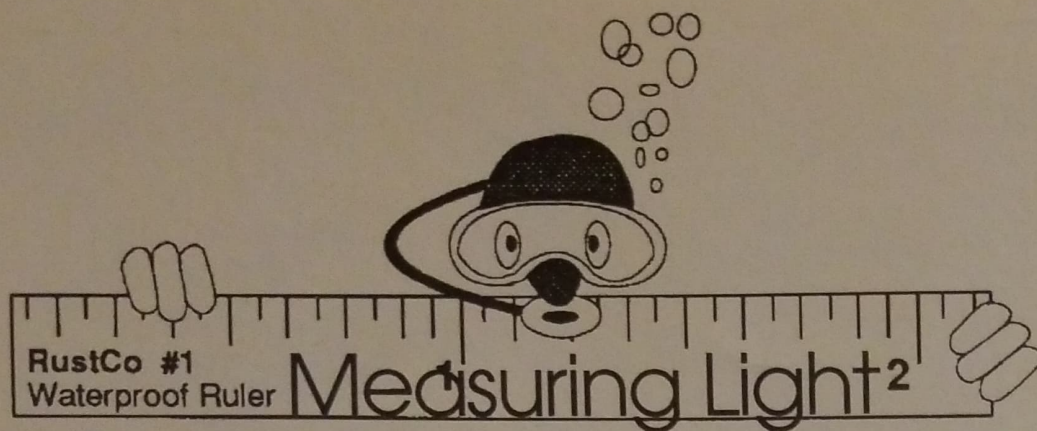
NSUC Nominations Committee, PO Box 3010 South, Halifax, N. S. B3J 3G6
Robert Snelling, NSUC Secretary, March 11, 1992

A social function will be held immediately following the AGM. All welcome. Starts 6:00 p.m. Place to be announced.

NSUC Member Instructors

Austin Baird
Home 492-2653
Michael Bayer
Home 464-1139
Wayne Bell
Home 465-3880
Ches Chaulk
Home 765-8527
Darin Connors
Home 443-1150
Gary Edwards
Home 883-9392
David Gough
Home 864-3046
T. J. Kenchington
Home 889-3555
Roland Lewis
Home 562-2457
Rob Mack
453-0762
Don Rodgerson
Home 835-8833
James Semple
Home 443-1150
Dale K. Smith
Home 275-4471

NSUC INFORMATION



No. 11 in a series
on Underwater Photography
by Bob Semple

Decent Exposure

Three basic things are used by a photographer to determine proper exposure; film speed, shutter speed and aperture or lens opening (f stop).

Film speed: In our last article we discussed choosing one type of film and using it constantly. This will enable you to get familiar with what the film is capable of under various conditions of light. For underwater use, a good film speed (ISO) is one that is rated between 50 and 100. Kodachrome 64 is a great all-round film.

Shutter speed: In most underwater photography, a strobe (electronic flash) is used. Strobe will only synchronize at shutter speeds of 1/90th of a second — Nikonos V or IVA — and 1/60th of a second — Nikonos III and earlier designs — and slower. Faster shutter speeds (i.e., 1/125 or higher) will flash before the shutter curtain can get across the film plate and not expose that portion of the film. If you need to use faster shutter speeds such as when you are being buzzed by sea lions or killer whales (lucky day!!), then you cannot use your strobe. Basically 1/60th will be the standard shutter speed you will use in the majority of your underwater photography.

Aperture: In keeping your film speed (ISO 64) and shutter (1/60th) at a constant, the only variable that you will have to worry about is the size of the lens opening (f-stops). The f-stops are determined by the output of your strobe and/or your light meter.

Light Meters

In order to correctly measure the intensity to light underwater, the underwater photographer needs to use a light meter. In the later Nikonos versions (IVA and V) the light meters are included and make automatic settings. All the photographer has to do is to set the film speed and shutter speed (i.e. 1/60 or 1/90th) and the camera automatically set the lens opening to the appropriate setting.

For the majority of photo situations which one might encounter, the camera will make the proper exposure. There are a few instances where a knowledgeable photographer will override (set on manual) the automatic system.

For example, when a small shiny object (fish or white sea anemone) is against a dark background, the meter will expose for the dark area and overexpose the main subject. To

overcome this problem, you must use 1 or 2 f-stop difference (larger f-stop number-smaller lens opening). The opposite also occurs when a dark object swims in front of a light

background (i.e. looking up towards the surface or the painted hull of a boat). One would override the system and open the lens by 1 or 2 f-stops (smaller f-stop number-larger lens opening).

Mistakes also occur if the sun is in the field of view. The camera would automatically calculate the intense light and close the shutter down to underexpose the photo. For a proper exposure, take a light meter reading at about a 60° angle away from the sun but not on the dark sea bottom.

It is best to switch to manual exposure when filming divers or fish in silhouette photographs against the surface. When filming an object above you on a sunny day and in relatively clear water, try an 11 or 16 f-stop.

The Nikonos cameras (models III and earlier) do not have the light meters included. One has to buy a housed light meter to use with the camera system. Although most land light meters can be housed and used underwater, it is best to use one specifically designed for the job. Sekonic and Dacor both make good marine light meters to be used for the Nikonos cameras.

To use a light meter, first set the ISO (i.e. 64) and the shutter speed to match the 1/60th on the camera. Double check so you won't take an entire roll at the wrong exposure. All you have to do is to point the light meter at the object you want to film and read the f-stop reading off the meter! Set the f-stop reading on the camera and take the picture. If your subject can easily be frightened, then make the setting before your final approach. If you have enough time to take several pictures, bracket your exposures to ensure a properly exposed photograph. Take an f-stop setting 1 above and 1 below the reading on the meter.

Keep a notebook and record all of your exposures.

Process your film as soon as possible and review all your photos (especially the bad ones) to learn what you did right and what you did wrong with every exposure. Make a mental note (as well as on paper) on how to correct the mistake on the next photo dive and soon you will be able to take good exposures automatically.

In our next article, we will discuss the use of the underwater strobe to take proper exposures and also how to balance natural and artificial light for those great-looking photos.

NSUC SCUBA FEST '92

TITANIC WELCOME!

On behalf of the Nova Scotia Underwater Council, I welcome you to ScubaFest '92.

This is our third Show since 1990, and we think it has something for everyone.

For the **certified diver**, there is the opportunity to make a deal on some new gear; take advantage of educational opportunities; or just have **fun** with underwater hockey. For the **non-diver**, we hope to perk your interest in this most fascinating sport by way of the displays, films, and other activities. Feel free to ask anyone all those questions you have about exploring the Underwater World.

For **all** of us, we can meet friends, old and new.

Most of this has been made possible through the support of the agencies and businesses you will see on display here. Please visit their booths and show your support for them.

I invite you to also visit the NSUC Booth — get to know the Council and what it can do for you. At the same time have your photo taken with an actual life ring from the *Titanic*.

During your time here, we hope most of all — you will enjoy yourself.

Thanks, once again for coming. Have **fun!**

Roland G. Lewis, President
Nova Scotia Underwater Council

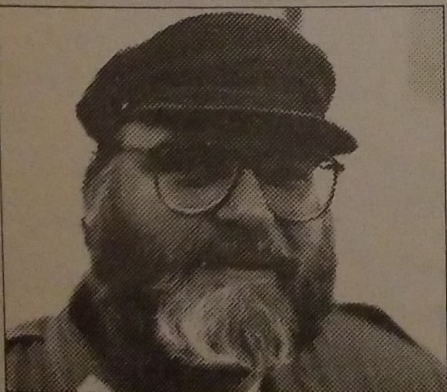
SPECIAL PRESENTATION

HMS TITANIC

MEET AND HEAR STEVE BLASCO OF THE IMAX/TITANIC EXPEDITION!

SATURDAY • MAY 9 • 11 AM & 3 PM IN PERSON

SUNDAY • MAY 10 • 4 PM • VIDEO PRESENTATION



STEVE BLASCO, Marine Engineering Geologist and Chief Scientist of the IMAX/Titanic expedition, planned, coordinated and conducted the scientific aspects as part of the IMAX filming of the wreck — including geology, biology, metallurgy and engineering studies.

Using the *Titanic* as a time marker, the scientists studied the rate of corrosion and a variety of seabed processes.

In addition to his scientific research, Mr. Blasco manages a federal government research programme in offshore geotechnics, investigating submarine foundation conditions related to u/w construction of power cables or oil rigs.

VISIT OUR EXHIBITS

ACUC
American/Canadian Underwater
Certification Inc.

Aqua Dive
Retail dive store/training facility

Bottom Scratchers Dive Club
A newly formed dive club based in
the Central Region

Cdn. Seabed Research
Environmental consulting company

Connors Diving Service
Commercial diving and salvage

Cressi Sub
Equipment manufacturer

**Dalhousie University
Scientific Diving Unit**
Divers World
Retail dive store/training facility

Gilbert Van Rykevorsel
Underwater photography

Synchro Nova Scotia
Sport governing body

Nautilus School of Diving
Retail dive store/training facility

HMCS Scotian
Naval Reserve

NSUC/Scuba Fest 92
Sport governing body/show organizer

Oceanic
Equipment manufacturer

Ovens Natural Park
Scenic park south of Lunenburg

PADI
Professional Assoc. of Diving
Instructors/diving certification

Photo Contest Display

Scuba Pro
Equipment Manufacturer

Sub Salves
Subsurface air recovery systems

TAKE IN A SEMINAR

SATURDAY • MAY 9

10:00	U/W Photography <i>Bob Semple</i>	Wyse Room
11:00	"Titanica" <i>Steve Blasco</i>	Thistle Room
12:00	Equipment Maintenance <i>Austin Baird</i>	Wyse Room
1:00	Halifax Harbour <i>Gordon Fader</i>	Thistle Room
2:00	U/W Photography <i>Bob Semple</i>	Windmill Room
3:00	"Titanica" <i>Steve Blasco</i>	Thistle Room
4:00	Dive Computers <i>Oceanic</i>	Wyse Room

SUNDAY • MAY 10

10:00	Diver Safety <i>TBA</i>	Windmill Room
11:00	Marine Radio Operations <i>Dept. of Communications</i>	Wyse Room
12:00	Equipment Maintenance <i>Austin Baird</i>	Windmill Room
1:00	Survey Technology (shipwrecks) <i>Glen Gilbert</i>	Wyse Room
2:00	Underwater Adventures (a video) <i>Charlie Doucette</i>	Thistle Rm
3:00	Dive Computers <i>Oceanic</i>	Wyse Room
4:00	Video Presentation of "Titanica" seminar (Steve Blasco)	Thistle Room

SILVER

Coors
LIGHT

BULLET

NAUTICAL HOCKEY LEAGUE

SATURDAY & SUNDAY 1:30-2:00 • 2:00-2:30

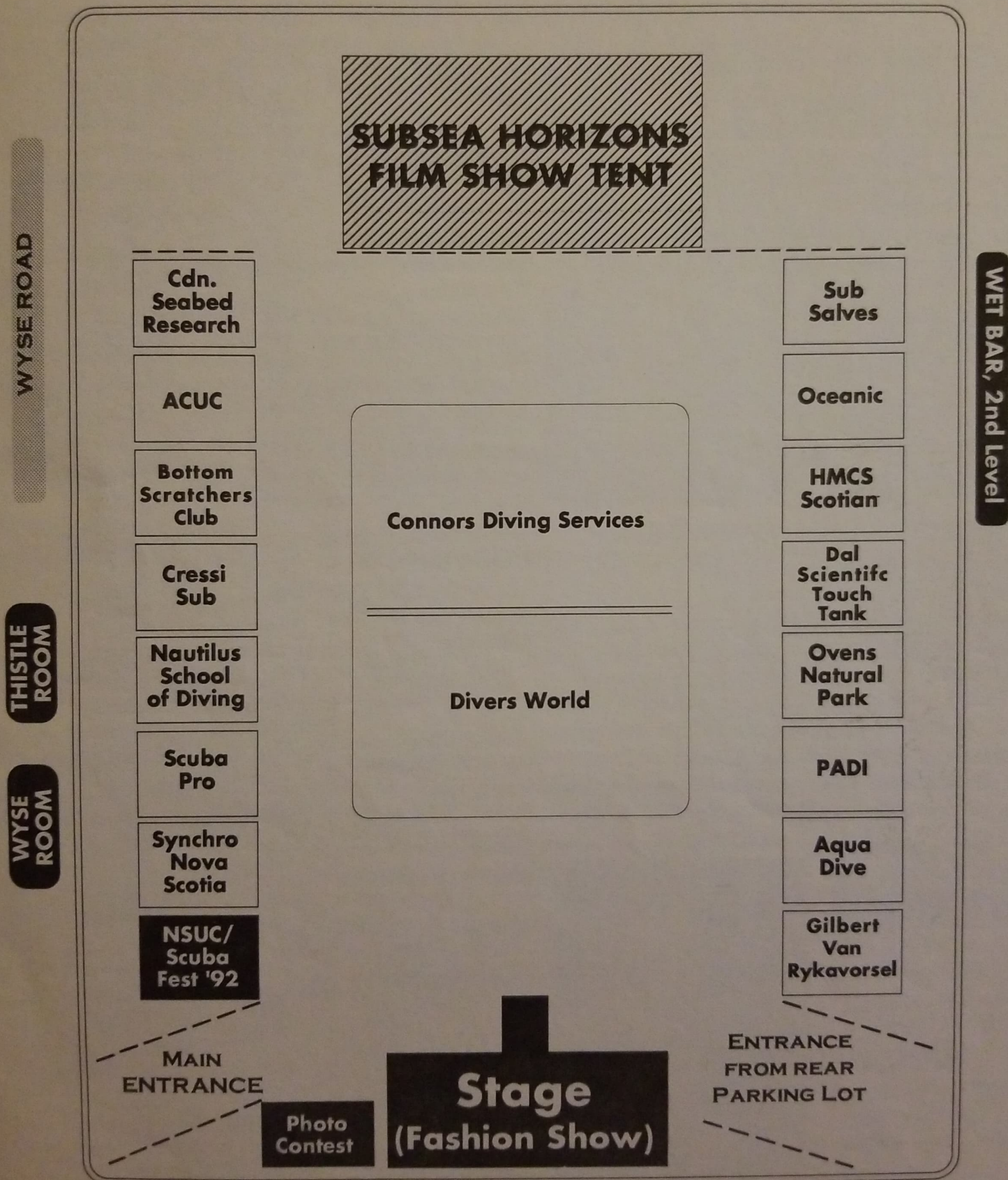
FINAL 2:00-2:30 SUNDAY

SYNCHRO SWIMMING • BOTH DAYS • 2:30-3:30 PM

SPORTSPLEX POOL EVENTS • SPONSORED BY COORS LIGHT

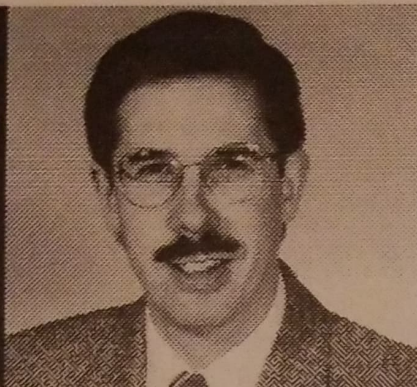
SCUBAFEST '92

Dartmouth Sportsplex • Exhibitors Floor Plan



10:00 am - 6 pm ♦ Admission • Adults \$5.00
• NSUC Mbrs. \$4.00 • Children under 6 free

FEATURE SPEAKERS & EVENTS AT A GLANCE



HALIFAX HARBOUR FINDINGS

Saturday • May 9 • 1 pm
Thistle Room

GORDON FADER, marine biologist at the Bedford Institute of Oceanography, is responsible for keeping track of the growing number of submerged objects being found in the history-filled waters of Halifax Harbour. With a history dating back beyond its 240 years, these

waters are home to countless objects, fascinating to divers and non-divers alike. A lively and informative presentation.



**Nautilus
School
Of Diving**

**visit our booth at
ScubaFest'92**

**... on display ...
The new
"Scuba Pro"
Product
Line**



SYNCHRONIZED SWIMMING

Synchronized swimming is a dynamically beautiful, yet physically demanding sport consisting of routines synchronized to music — solos, duets and teams of eight, plus required compulsory figures. In order to excel, athletes must possess superb aquatic skills, be in top physical condition and have highly developed strength, endurance, breath control, flexibility and balance. The Halifax Aqua Nova Senior team recently won the Atlantic Divisional Championships held in St. John's. This win qualified the team for a berth in the National Championships in Laval, P.Q., in May.

UNDERWATER PHOTOGRAPHY MADE SIMPLE

Saturday • May 9, 10 am, 2pm
Wyse Room

BOB SEMPLE, diving officer with Fisheries and Oceans and award-winning photographer, has been associated with scientific diving for the past 25 years. His first talk will focus on tips on travel to remote and popular locales and his second will feature a video of his favourite pets and shipwrecks.

CHARLIE DOUCETTE'S U/W ADVENTURES

Sunday • May 10 • 2 pm
Thistle Room

CHARLIE DOUCETTE, one of the first u/w film-makers in Nova Scotia and owner of a film production company, presents a beautiful collage of his favourite clips. He is hosting and organizing the Subsea Horizons film show which will run continuously in the tent.

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DAL SCIENTIFIC DIVE UNIT HEADED BY FRED WATTS

Register at the
NSUC Booth

Water Sports

Continues from page one

Water Polo for Kids

Another version of hockey that has been adapted for kids is called inner-tube water polo. For safety reasons, all players wear a regular-size inner tube around their waist. At one Toronto summer sports camp, it's played either in the shallow or deep end of the pool with teams ranging from 6 to 12 players. The object of the game is to toss the ball into one of the nets, which is lying down on the pool deck at the end of the pool. (The net can also be placed vertically.) Each team has a goalie or floater whose job is to block the ball from getting into the net.

Water Soccer for Kids

Kids at a pool in Montreal open up the swimming season by playing water soccer using a watermelon as a ball. Sound easy? The melon is especially slippery because it's coated with vegetable oil. To score a point, team members have to push the melon down to one end of the pool and have it touch the side. Lifeguards act as referees and judge whether the team has scored a touch, or point. Does the watermelon float? Try one out and see.

Snorkelling

How about a quiet sport that promises an underwater adventure? Try snorkelling in shallow water along the beach with your parents. You need a mask that fits properly, a snorkel and fins. Dive shops have guides too.

Golf

The first u/w gold course was recently built in a heated swimming pool in Osaka, Japan. The original aim was for scuba divers to lose weight. Swinging a club u/w consumes three times as much energy as on the surface.

by Deborah Seed. Adapted from material prepared for The Amazing Water Book, Kid's Can Press Ltd., Toronto, and printed with permission of the author.

Diving Nova Scotia

U/W park for Lunenburg?

On January 7, 1992 a group called The South Shore Marine Park Society was formed and considerable interest was shown to establish one or more "safe wrecks" along Lunenburg/ Queens County coastlines. Although there are many natural and very old wrecks along our coastline, few are still intact. The wrecks that still are intact are too dangerous because of jagged edges, moving hatches and riggings. Most natural wrecks only consist of a few ballast stones and maybe some plank- ing. Few are known to divers and fishermen.

The proposed location of the first and "test" wreck has been suggested upon approval, to be located 44 o 19.7'N 64 o 13.1'W. This is in an area not lobstered in, fished, nor in the main channel approach to Lunenburg. It is approximately half-way between Cross Island and Sculpin Shoal in 15 fathom (90') of water. Appropriately buoyed, we feel this wreck would pose no threat to shipping or fishing.

Our committee is presently working on obtaining a steel vessel, name to be announced at a later date. Once sunk,

Continues on page 12

Philosophy of the Game of Underwater Hockey

The development of play based on fitness, speed, respect for the rules and teamwork. U/W hockey can be played by everyone, therefore, it is essential that rough play does not occur so that each and every player enjoys the sport in safety. A game does not give the player the implied, or expressed right to endanger other participants. It is in this spirit that we want to promote and develop u/w hockey in the spirit of Fair Play In Sport.

Rights and Responsibilities of Players

All players should uphold each and every one of the following principles:

1. Right of the opportunity to participate in u/w hockey regardless of age
2. Right to participate at a level consistent with developmental level
3. Right to have qualified sensitive leadership
4. Right to participate in a safe and healthy environment
5. Right of each participant to share in leadership and decision-making of u/w hockey
6. Right of child athletes to play as children. Right of adult athletes to play

at appropriate competition level

7. Right to proper preparation for participation
8. Right to an equal opportunity to strive for success
9. Right to be treated with dignity by all involved
10. Right to have fun through sport
11. Responsibility to help new players enjoy u/w hockey
12. Responsibility to promote sportsmanlike conduct toward all individuals and teams
13. Responsibility to strive to develop my skills and those of other players to the highest possible level.

Canadian Rules

U/W hockey is recognized as an official sport by the Underwater Games Commission of the confederation mondiale des activites subaquatiques (CMAS) (World Diving Federation). The Canadian rules differ slightly from the CMAS rules. The major differences involve: design of goals, the number of substitutes and substitution. Since the CMAS rules are used in international competitions when preparing for tournaments outside of Canada, teams should play by the CMAS rules. *from the Underwater Hockey Assoc. of B.C.*

Lunenburg dive news

Continues from page 11

our committee will be required to have the ship stripped of her masts, riggings, hatches, batteries, and degassed fuel tanks, etc., to satisfy Environment and Coast Guard, to make it environment- and diver-safe.

In conjunction with this, Lunenburg will have it's first dive operation. JO'S Dive Shop Ltd. will offer instruction, retail, rentals, repairs, airfills, and also a chartered dive boat service. We are also looking at setting up a mobile dive service. The shop will also offer scheduled chartered winter vacations, to places such as the Caribbean. Although not set up yet, the shop will be working with our local Bed and Breakfast's, to offer visiting patrons vacations packages of our own.

JO'S Dive Shop will contain full classroom facilities for diver training. The shop will have 3-4 Instructors and 4-5 Divemasters. Our experienced skipper will be operating our chartered dive boat service. He is also a Divemaster, with years of experience in diving in the area. We will be able to offer many interesting and different dive locations.

If you would be interested in obtaining further information regarding the Underwater Park here in Lunenburg, please don't hesitate to contact Mr. Callan at Tel. (902) 634-9146, Fax (902)-634-3019, Box 1390, Lunenburg, N.S. BOJ 2C0

Our phone here at JO'S Dive Shop is (902) 634-3443, fax us at (902) 634-4822, or drop us a line at 296 Lincoln St., Lunenburg, N.S. BOJ 2C0.

We hope to be hearing from you in the future.

P.S. In fact, there has been such a demand for this sort of thing in the area our first three Openwater courses are booked solid. All the local Fire Dept's and Police Dept's are getting in on the action, and are setting up their own Rescue departments, to promote diver safety.

Letters to the Editor

Dear Editor:

I understand that NSUC Instructor Membership is free. Does this include out of province instructors? If so, what benefit would the NSUC receive from out of province instructors? Also I note that the President, Vice President and Area director are Member Instructors. Does this mean that some voting members on the Board of Directors do not pay dues?

Yours Truly: The Watchdog

Dear Watchdog:

Firstly - Thank you for being out there. It is comforting to know there is someone who cares. Letters to the editor are always encouraged. While anonymous letters would not ordinarily be answered, you raised some points worthy of comment and so I will reply.

Several years ago it was recognized instructors are the folks who first meet the new divers and thus have a great influence on them. It was reasoned, if the instructors were NSUC members, then they might spread the word and be instrumental in signing up new members. To encourage the instructors in this direction several carrots have been dangled before them. At present they are offered free NSUC memberships. The program seems to be working, as instructors are including student memberships as part of the course fee and new divers are becoming NSUC members.

Of the 25 NSUC member instructors listed in the last *Bottomtime*, one indeed is from out of province. You are right, Watchdog, this one lost membership fee should not be allowed. How silly of us to think an out of province instructor could do any possible good for the Council. I assure you this wrong will be righted. To address your second question: yes, the present Board is fortunate to have several instructors within its ranks. Board members must be paid up members of the NSUC — regardless of their qualifications as divers. Thank you for your interest.

The matter of instructor memberships is periodically reviewed. The more affluent of you instructors are hereby encouraged to send in your dues. Likewise all 'past' members take notice - the 92-93 dues are now past due.

Roland G Lewis

Due to space considerations, other letters we have received will be printed in our next issue.



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Useful Tips and Knowledge

Swimming Rescue

There are circumstances where the rescuer is the only person available to respond to an emergency situation. In this situation it is even more important to ensure the safety of the rescuer, no matter how skilful or fit he or she may be. The following methods of surface rescue should be considered in this order:

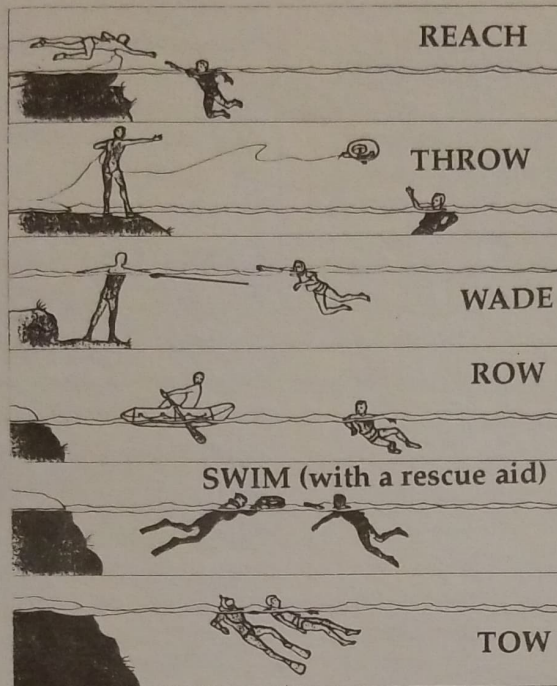
Reach

This method of rescue assumes that the victim is close to the shore or boat. The use of a rigid aid can increase the reach of the rescuer, e.g., paddle, branch or stick. Clothing can also increase the effectiveness of this.

Throw

Throwing a buoyant aid is a first step in a rescue attempt, and generally only provides the person in difficulties with additional buoyancy whilst other assistance is being summoned.

Throwing a rope can also be an elective method of rescue. The success of this method will depend on the rescuer's accuracy, and to some extent on the type of rope being used.



Wade

Wading is a much quicker method of approaching someone if the conditions are suitable. A sure foothold will assist the safety of the rescuer, and objects may be taken by the rescuer to assist him in stretching out towards the victim, thereby extending his reach.

Row

If reach and throw rescues are not possible due to the distance to the casualty, and a wade rescue is not possible because of the depth of water, a rowing boat or any other type of surface craft may have to be used. However care must be exercised to ensure that the boat is suitable and safe for the rescue, that the rescuer is

familiar with the type of craft, and has the necessary skills required. If a small craft is being used, there may be difficulties in landing someone into it without capsizing the boat; this may require bringing them in over the transom.

Swim and Tow

The principle is to reduce the degree of risk taken by the rescuer. Swimming rescues should only be undertaken if all other methods are inappropriate.

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Learn to scuba dive

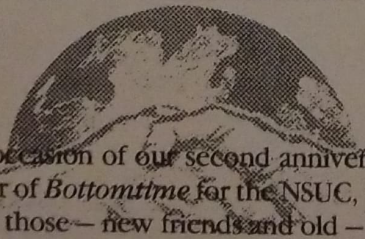
Upcoming courses in Nova Scotia

Date	Agency	Course	Dive Shop
May			
5	PADI	Basic Open Water	Aquadive
5	PADI	Open Water (YMCA)	Scuba Tech
5	PADI	Open Water	Northern Shore
6-10	NAUI	Open Water II	Divers World
11	PADI	Open Water	Northern Shore
12	NAUI	Basic Open Water (to June 24)	Divers World
15-17	PADI	Basic Open Water (New Glasgow)	Aquadive
16-24	NAUI	Instructor Course (Greenwood)	Greenwood
26	NSDS	Open Water	Nautilus
29	NSDS	Rescue Diver	Nautilus
	PADI	Open Water (call)	Dive Masters
	PADI	Navigation (call)	Dive Masters
	PADI	Rescue Diver (call)	Scuba Tech
	PADI	Open Water	Aqua Dive
June			
1	PADI	Dive Rescue	Northern Shore
1	PADI	Rescue Diver	Northern Shore
2	PADI	Open Water	Scuba Tech
2	PADI	Open Water	Northern Shore
1-24	NAUI	Basic Open Water	Divers World
9-14	NAUI	Advanced Course	Divers World
23	PADI	Open Water	Northern Shore
23	PADI	Open Water (call)	Dive Masters
23	PADI	Advanced (call)	Dive Masters
14-30	NAUI	Basic Open Water I (to Aug 6)	Divers World
15-19	NAUI	Open Water II	Divers World
27	NAUI	Basic Open Water (to Aug. 19)	Divers World
28	NAUI	Wreck Diver (to Aug. 2)	Divers World
August			
11-16	NAUI	Rescue Course	Divers World
18	NAUI	Basic Open Water (to Sept. 10)	Divers World
September			
9-13	NAUI	Open Water II	Divers World
14	NAUI	Basic Open Water (to Oct. 7)	Divers World
22-27	NAUI	Advanced Diver	Divers World

Aqua Dive 469-6948 Dive Masters 465-2526
 Divers World 876-0555 Greenwood (Ches Caulk) 765-8527
 Nautilus School Of Diving 454-4296

Northern Shore Diving Centre 429-8265 Scuba Tech 562-6061

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



On the occasion of our second anniversary as the publisher of *Bottomtime* for the NSUC, we wish to thank all those—new friends and old—who have shared weal and woe to make of it such a worthy endeavour. All the best during the coming season.

New Media Services

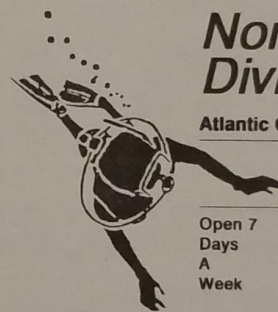
DIVERS BOUTIQUE

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	(Various colours)	\$5.00
NSUC decals .75	NSUC Hyperbaric	.50

Divers' Mart ... buy 'n sell

One Atland Dry Suit, will fit 180-210 lb., height 6.1". Included undergarments, high pressure hose, brand new fins. Only 12 dives, only \$800.00 (a \$1,500.00 value) ■ Two sets of full guages, Octopus Regulator First Stage, depth guages, bottomtimers. ■ Four tanks, 1 Sherwood BC (jacket style) ■ Odds 'n ends. Call Dave Parker, 864-5438



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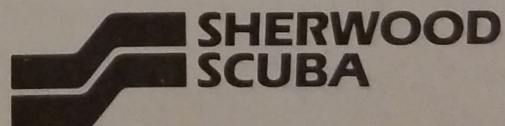
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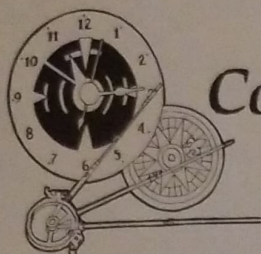
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Coming Events

*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**.*

§ AQUALANTIC 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.*

§ 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 U/W EXPO

Dartmouth Sportsplex, May 9-10. *See centrefold for details.*

§ NSUC AGM

May 30, from 10 am, MicMac Boatd Club, Dartmouth. Social function at 6 pm will follow. *See page 5.*

§ DIVE THURSDAYS

Commencing May 28, Divers World will be offering supervised dives every Thursday. This is a good opportunity for any level diver to brush up on new or reaffirm old skills and to meet new people who are interested and active in our sport. The evening includes a planned dive with an Instructor in attendance ready to assist and guide groups of divers at local sites each and every Thursday. All dives conducted in daylight hours, fee \$7.00, space limited: *call 876-0555*

§ WEDNESDAYS — NIGHT DIVES

Divers World is continuing it's organized night dives on Wednesdays. They developed last summer into a popular event. Divemasters will always be in attendance with emergency equipment in hand, fee \$5.00, space limited: *call 876-0555 ahead as dive times vary with daylight hours.*

§ 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.

§ 10TH ANNUAL SASKATCHEWAN SUPER DIVER COMPETITION

Sept. 5, White Swan Lake, one hour north of Prince Albert, contact the Saskatchewan Underwater Council.

THE NSUC LENDING LIBRARY

1991 Sport Diver Open Water Vol. 1, Pts. 1 & 2	(video)
<i>Contains</i> Using Skin Diving Equipment	(video)
Using Scuba Diving Equipment	(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:</i> Diving Equipment • Boat Diving	
Underwater Navigation	
Sport Diving Advanced Vol. 2, Pts. 1-3	(video)
<i>Contains:</i>	
Limited Visibility Diving • Diver Stress & Rescue	
Deep Diving	
Neal Watson's Undersea Adventures	(video)
Louisburg Marine Heritage Pts. 1 & 2	(video)
<i>Contains:</i> Part 1 in English • Part 2 in French	
Australia Discover It	(video)
Dive Nova Scotia Pts. 1-3	(video)
<i>Contains:</i>	
Part 1 Dive Nova Scotia • Part 2 Dive Nova Scotia	
Part 3 Wreck Diving	

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 429-6067

Join the Nova Scotia Underwater Council!

Do you need the NSUC?

Does a fish need water? Of course ... and you do too. The NSUC is the general, democratic association of all divers for our province. We exist to unite divers, promote diver safety, clean waters, service and the growth of our sport itself.

Yes, you need a provincial underwater council — the NSUC.

Do we need you?

More than ever. All athletes, all sports have their associations. Scuba divers are also a special interest group. Like other groups, our strength is in numbers and organization. As we grow, so grows our programmes and our voice on the issues of general concern and interest to all sport, recreational and commercial divers, including state regulations.

What we do ...

Involvement and Representation to the various levels of government on:

- Scallop licenses; costs and quotas
- Dive site access, National Harbours permit
- To update dive sites and dive site access
- Special Places Protection Act

Promotion of Safety and Advancement of Diving

- Investigate complaints about scuba instruction
- Hold seminars and workshops concerning diver safety
- Disseminate information about the Hyperbaric Chamber

Representation to the Sport Governing Bodies

- Founder, Canadian Federation for Underwater Activities
- Interaction with other Provincial Councils
- Voting member of Sport Nova Scotia — access to equipment, secretarial and regional support services, other sport bodies
- Member, Centre for Outdoor Recreational Sports

What we offer ...

Representation for the following sport diving interest groups — serving as a focus and contact amongst

- Clubs; individual divers; commercial members; u/w archaeology groups and other marine interest groups

Events

- The NSUC stages a variety of popular events such as the annual SeaHunt and the ScubaFest — you receive a discount on admission — and social functions. There's an AGM too.

Our own newsletter, *Bottomtime*

- Six issues per year which you receive by mail
- Articles concerning local diving interests, sites and topical news in brief and comment; dive club news
- Informative articles on diver safety and advancement
- Listings of current diving events, courses and programmes
- Divers Boutique — free divers' buy & sell for mbrs.; product news and reviews; how to series on U/W photography

Annual subscription to *Divers Free Press*

- This excellent publication is your guide to the world of scuba diving and is available free with your membership.

NSUC Video Library

- An extensive, informative and educational free video library (postage costs only) in VHS and BHS format

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Can a fish swim? You bet!

To receive all of the above plus much more, complete the form below and return it with your membership fee to the NSUC, or drop by our booth at ScubaFest '92.

NOVA SCOTIA UNDERWATER COUNCIL

P.O. Box 3010 South, Halifax, Nova Scotia, Canada B3J 3G6

Name _____ Address _____

City _____ County _____ Postal Code _____

Phone (h) _____ (w) _____ Occupation _____ Date _____

Student Member _____ Renewal _____ Number years diving _____

Certification (Agency(s) & Certification No.) _____

Membership Class: ☐ Individual ☐ Family ☐ Commercial

Club Affiliation _____ If non-club member, do you wish to join a club? _____

Are you interested in serving on a Council position or committee? _____

If yes, please specify _____

Fees enclosed: ☐ Individual (\$20) ☐ Family (\$30) ☐ Commercial (\$50) ☐ Newly certified diver (\$10)

Please return completed form along with appropriate fees (Cheque or money order) to the above address). If ordering **Passport to Diving**, please add \$5.00 to cover shipping and handling.

Amount enclosed _____

N.B. Membership expires one year from application. If you move, please inform us of your new address.