

The Canadian Hydrographic Association
Association canadienne d'hydrographie



NEWSLETTER

*** June/August 1998 ***

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Canadian Hydrographic Association

Central Branch

1998 Executive

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Central Branch Committees

NewsLetter/Web site

J. Weller, J. Berry, T. Herron, B. Power, L. Robbins,
K. Weaver.

Lighthouse

T. Herron, F. Oliff, P. Travaglini, R. Robitaille,
E. Sinclair, J. Weller.

Social Events

H₂O: J. Miles, B. Power, A. Leyzack.

BBQ: J. Miles, F. Oliff, A. Koudys.

AGM: T. Herron, F. Oliff, J. Miles, A. Leyzack,
A. Koudys.

International Members

F. Oliff, T. Herron, P. Knight, L. Robbins, J. Weller.

Membership/Nominations/Elections

A. Koudys, T. Herron, J. Berry, J. Biggar.

Seminar

T. Janzen, E. Lewis, F. Oliff.

Wade Essay Award

E. Lewis, P. Travaglini, A. Leyzack.

Admiralty Launch Surveyor

A. Leyzack, W. Warrender, J. Dixon, B. Power,
H. Duller, J. Miles.

Message from the National President

It is with great pleasure that I write this message to our CHA members around the world. This gives me an opportunity to keep in touch between issues of Lighthouse. Incidentally, I hope CHA as a professional association is meeting your needs. If it is not, please let us know. We are your Association; CHA is as good and as worthwhile as you help make it. It is also important to stand for election to your local Branch Executive and thus help each Branch grow and develop.

As you already know, CHA has been very active for the past ten years in bringing hydrographic training to countries around the world who could otherwise not develop these valuable skills. This has been funded by the Canadian International Development Agency, with management and training supplied by CHA. I myself have just returned from leading a training course at the Universiti Teknologi Malaysia in Kuala Lumpur. This is a continuation of earlier training programs established by CHA. This year, in particular, the students were eager and enthusiastic; it was a real pleasure to see and experience their enthusiasm and interest in hydrography. There was a genuine appreciation for the contribution by Canada, by CIDA and by CHA in making this training available. We are also looking forward to CHA participation in a Category A (IHO Standard of Hydrographic studies) course of studies at UTM, to commence in 1999. CIDA funding has been allocated for this extension of the present Category B program. In these CHA-sponsored training programs, we owe a lot to the work and guidance of Barry Lusk and Tom McCulloch, our first Project Manager. Barry was National President when we established the first training programs and has continued as CHA coordinator of these programs and as manager of our

Student Awards Program. Barry did a great job and laid the groundwork for these very successful and continuing training courses in developing countries.

Looking back through my files, I see this is the twelfth year of this NewsLetter. It all began in the summer of 1987 when Sam Weller was Vice-President of Central Branch. There were several interesting developments that needed to be discussed by members (one of which was the possibility of CHA becoming involved with CIDA in international training programs) so Sam created this newsletter to help with communications. Several members asked that the newsletter continue, as a means of getting minutes etc. out to the members, so here we are, twelve years later. Thank you Sam. You've done a great job and given us a fine newsletter.

The Spring 1998 Edition of our journal Lighthouse has been delayed due to heavy demands on our honorary Editor. She has been away on field duty most of the summer but I expect we'll have things going again in a month or so. We are always glad of articles and interesting news items, so if you have been doing interesting things recently, how about an item for your journal? If you feel it is not quite ready for Lighthouse, I know Sam will be glad of contributions for this NewsLetter.... One of the original Aims of CHA was to encourage our members to develop their writing skills and to encourage communications between our members, hence the existence of Lighthouse and of this NewsLetter. These are your journals.

All the best.

— Ken McMillan.

Notes from the Branch Vice-President

Summer is here so most personnel are either out in the field, just getting back from the field, or preparing for upcoming field surveys. I wish them every success.

My plans are for a Regional Exchange to the Bedford Institute of Oceanography for seven weeks, to help compile a new chart from Carmanville to Fogo Island, Newfoundland. I look forward to driving down there, seeing a part of the country I've not been to before and to working with staff from another Region of CHS.

The Heritage Launch Surveyor has a busy itinerary this summer and if you are interested in partaking in any of her activities I urge you to contact either Andrew Leyzack or Brian Power.

Our first fall meeting will be 7 p.m. on Thurs. October 8 in the meeting room at Toronto & Region Conservation

Authority, 1 Eastville Ave., Scarborough [see map on page 5]. Our guest speaker is Milo Strum, President of *Shoreplan Engineering Ltd.*, which is a Canadian company with many interesting coastal and marine engineering projects around the world. Our traditional refreshments will be on hand. We are planning to car-pool from Burlington, so please check with any of our Executive for details. Hope to see you there.

The 1998 Central Branch AGM & Dinner will be on Thurs. December 10 at our regular location: the Mimico Cruising Club, Etobicoke. Many thanks to the Club for allowing us to use their lovely facilities again this year.

I hope everyone has a happy, healthy and safe summer and I will see you in the fall.

— Fred Oliff

From the NewsLetter Committee:

This summer edition of our newsletter brings several interesting items: letters from Ken McMillan, National President, and Fred Oliff, our V-P; a column from Keith Weaver on In-House [CHS] Members; an International Column from Larry Robbins; a letter from Peter Knight; an update on the CHA Student Awards Program from Barry Lusk; news on our launch *Surveyor* from Mary E. Baruth and Harry Needham; and an Out-House column from Jim Berry [welcome back, Jim]. Thank you all; without your help, this NewsLetter would not happen.

Mark this on your calendar! Thursday 10 December is the 1998 Central Branch AGM & Dinner. This is your opportunity to make your voice heard, to catch up with your fellow members, and to have an interesting and tasty evening out. As in past years, this will be at the Mimico Cruising Club.



News from the other Branches

Section du Québec, V-P Bernard Labrecque, produced their seventh annual *Carnet de bord* [Log Book], very popular with boaters. They also participated in *Expo-Nature* at Rimouski in April, with close to 30,000 visitors in the 4 days: a great way to raise the profile of CHA. They have also signed a contract with CHS to promote and evaluate electronic charts. Another project is their work on "Le gardien des altitudes", a monument to show the importance of the early tide gauge at Pointe-au-Père in establishing waterlevels for North America.

Ottawa Branch V-P Joel Box, Prairie Schooner V-P Bruce Calderbank and Captain Vancouver V-P George Pugach were not able to get their news to us in time for this issue. We hope to have news for our fall NewsLetter.

Brian Watt sent this for Dave Gartley, Pacific Branch V-P: *As usual with field personnel away since early summer the place falls into the doldrums but there is some news.*

The New Year saw a new executive for the CHA Pacific Branch. Most of the old executive was back by acclamation. Welcome back Carol Novak and congratulations to Dave Gartley, our new Vice-President.

Several executive meetings were held in the first part of 1998, most dealing with preparations for the CHA involvement with the Canadian Hydrographic Conference in March.

Pacific Region hosted a one-day GPS workshop prior to the Conference opening. From all reports this was a successful and well-received workshop. The event culminated with a social event at Victoria's Maritime Museum. Those attending were treated to a souvenir CHA Beer mug filled with a fine local brew. It was a great time to renew old acquaintances from across Canada.

The H2O Bonspeil was held early this year at the Glen Meadows Golf and Country Club. Of course showing

everyone up were the retired CHS/CHA members who obviously have all the time in the world to practice. A good time was had by all.

The CHS and the CHA said goodbye to three of our longtime members in late March. Doug Popejoy, Art Lyon and Alan Douglas all decided to take advantage of early retirement.

Art and Doug were honoured at dinner at Theo's Restaurant in Sidney. Thirty years plus for each of them provided for many amusing stories. In true hydrographic fashion, Doug and Art were very well prepared for a rebuttal. Doug was presented with a handheld GPS receiver, just in case he gets lost someday. Art was presented with Chart Production's traditional "Silly Chart" and a gift certificate for some art supplies, just in case he wants to do some colouring on some rainy day. In early March the CHS honoured Doug, Art, Alan Douglas, Ron Lindsay and Bob Taylor at a luncheon at the Saanichton Agricultural Hall. Ron Lindsay has transferred to Ocean Science and Productivity at IOS. Bob Taylor, coxswain of the "Revisor", had been a fixture with the CHS and his contributions and support to our surveys will always be remembered. It has been rumoured that Bob didn't stray too far... apparently he's skippering the Sidney shuttle ferry, better known for its frequent stops at waterfront pubs.

We have had two luncheon seminars this year. Mike Woods gave a slide show and talk on his recent adventure in surveying in Lae, Papua New Guinea, and Michael Gourley of Universal Systems gave a talk on CARIS for Windows V4.3. Both of these seminars were well attended by CHS employees.

Membership in Pacific Region remains healthy with over 80 regular, sustaining and student members.

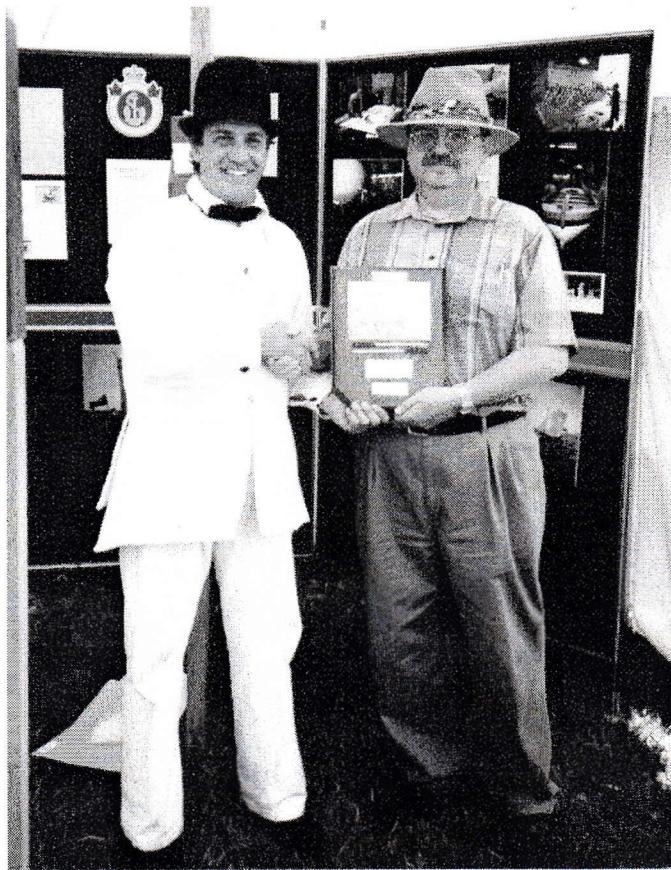
Tony O'Connor left the Pacific Region to take up the post of Director General, Hydrography. Congratulations Tony, thank you for all your support with the Pacific Branch.

Heritage Launch Surveyor in Ottawa

By Mary E. Baruth

The Surveyor ventured to Ottawa this past Victoria Day weekend to participate in the Festival of Spring, held at Dow's Lake. Camped at HMCS Carleton, the crew has rarely had it so good: hot showers and all the amenities, a secure dock close to the camp, and of course the hospitality of the Canadian War Museum, right on site!

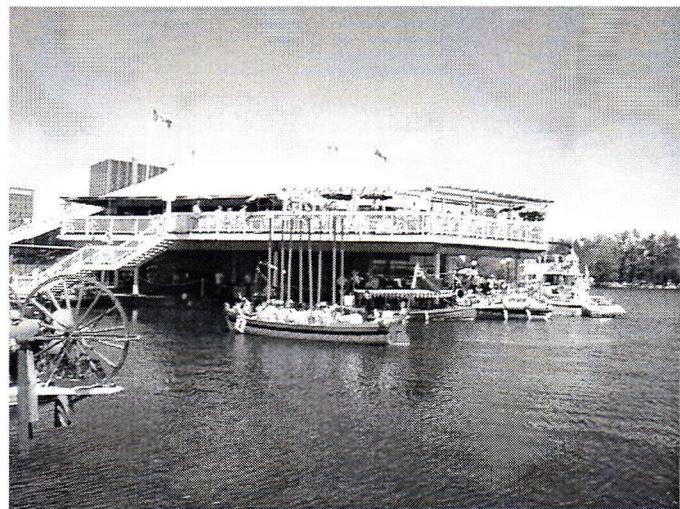
Sue McLean and Christy Harris manned the cook tent and fire pit, preparing incredible feasts for the crew from dawn until dusk. Everyone pitched in to do their bit, from Brian Power's recreation of the "Burning Bush/Brush" to decking the boat in Christmas lights for the evening flotilla on the lake, and John Dixon and Murphy's gun salutes from shore.



Coxswain Andrew Leyzack and Dan Glenney

The crew presented Dan Glenney of the Canadian War Museum with a plaque before heading out to either sail or row with members of the museum and/or organizers of the festival. Crew members Ken Dexel, Louise Durham, John Dixon, "Captain Tulip" Andrew Leyzack, Earl Brown, Brian Power, Jason Power, Chris Furlap, Dick MacDougall, Ed Martin and ship's gunner Murphy Baruth valiantly fought off the lone Yorker with periodic cannon blasts and incredible seamanship (he didn't have a chance!) Saturday evening Ray Chapeski brought out his fiddle and was accompanied by his wife on guitar until a dance was organized. Ray gave up the fiddle to

Murphy, who led everyone in the paddle dance. Hooting and hollering, the dance went on until the crew was exhausted and the waltz took over as dance of choice.



At Dow's Lake Pavilion

When the rain hit, it was welcomed, as the dance had certainly raised everyone's temperature. But the spirits of this hearty crew never wavered! Soon they gathered back around the fire with one of the many security guards provided them by the Canadian Museum of Civilization, singing, partaking in grog and Screech from Terese and telling re-enactment stories.

The van fan club of Sheila Acheson, Harry Needham, and others provided encouragement as the *Surveyor* waited in the hot sun for the "power boats" to catch up with the boat no one thought would make it to the end of the flotilla (except us of course).



"Surveyor" in action.

The weekend was a tremendous success, thanks to the efforts of all those who were able to make it to Ottawa, and to those who were instrumental in the weekend's planning. Thanks!

Come to the Fayre!

Message from Harry Needham

"Surveyor" will be participating in the traditional "Fayre at the Forks" in Chatham, Ontario, on 2, 3, 4 October. This is the last event of the season for "Surveyor". All helpers, participants and visitors are most welcome.

G'Day, maties;

Sue and I are being provided with a van by the museum to take we two and all the gear down to Chatham and back. We will leave first thing Thursday (30 Sept) and arrive Chatham mid-afternoon.

Joining us there for Fri/Sat/Sun will be two of our education officers, one attired as a Canadian Fencible, the other as a Newfoundland Fencible, so they will add some colour. We will bring the cooking fly, a wedge (for Sue and me) and a marquee, which will be used (if you like) to house the CHA/Surveyor display, have a table for CHA and CWM propaganda, and for our educators to work out of, etc. We will also have it for shelter if the weather gets bad.

Jim Gilbert at Chatham told me this a.m. that site setup and other details would be same as last year. I took the liberty of saying that I thought we had a great site last year and would be glad to have it again. Hope you agree. This way, we could put the marquee right next to where the visitors enter the site, off the road leading to the boat launch, with the flagpole in front (same loc as we had the flagpole last year). I suggest the kitchen fly and our wedge next to it, so Sue and I can help man the info tent and I can use it for shelter for carving, etc.

We will be there Thursday mid-afternoon. Will anyone be there earlier? If so, please stake out enough space for the marquee and the fly and our wedge tent (allow 30' square for EACH of the two big tents).

Food arrangements are apparently same as last year, so be prepared to add exactly the same ingredients and quantities to the cabbage and sausage soup as yester did last year, Sue requests.

Anyone is welcome to join us. Just contact Andrew Leyzack for details.

See you all at Chatham, except Brian & Jason, you disgusting old barnacles!

Harry Needham
Special Advisor - Programme Development
Canadian War Museum
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Ottawa, ON K1A 0M8

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CHA Student Award

By Barry Lusk

Barry Lusk, former National President of CHA, is the manager of the CHA Student Awards Program.

The Canadian Hydrographic Association's Student Awards programme continues to operate successfully and has recently awarded its sixth \$2,000 cheque to a student in a Canadian College.

Adam Lord, of the College of Geographic Sciences in Lawrencetown, Nova Scotia, is the 1998 Award winner. He is presently entering 2nd year of this college's survey program and will become a survey technician when he graduates. His long-range plans are to get a land survey certificate and to ultimately own a survey company.

A cheque for \$2,000, a certificate from the Canadian Hydrographic Association Student Awards programme, an engraved medal and a photograph of the perpetual awards plaque has recently been sent to Adam.

We had 18 applicants for the award this year; ten were considered programme acceptable. From these ten, five were from the College of Geographic Sciences, two from the University of Calgary, one from the Southern Alberta Institute of Technology, one from the Red River Community College, and one from The University of New Brunswick.

The College of Geographic Sciences, under the able tutelage of Grant McBurney, have always submitted a large number of very good applications and Mr. Lord is the third recipient from this school. I would like to congratulate that school and all the very good students who have applied for the award. I would also like to congratulate the instructors at the school and the 3 winners of our award over the past 6 years.

The Award's perpetual investment that makes the awarding of these funds possible each year is becoming more difficult due to the low interest rates. But we will struggle on.

I am always on the lookout for more schools to add to my January mail-out. If you know of any schools that qualify but as yet do not receive my mail-out please write me and give me their names. There are presently 25 Colleges or Universities on my list.

If you would like more information on the Award or perhaps wish a list of the schools that are in the programme, please don't hesitate to write to me:

Barry M. Lusk, Manager, Academic Awards
4719 Amblewood Drive
Victoria BC V8Y 2S2
Telephone (250) 658-1836.

The International Column

By Larry Robbins, Commander, RNZN

HMNZS MONOWAI decommissioned from the RNZN in April after a 20+ year career as the RNZN's principal survey ship, and some 38 years after she was originally launched. The day was fair and the ceremony a very moving and suitable send-off for a ship which has contributed so much towards maritime safety in NZ.

With almost indecent haste, my wife Jane and I then headed off overseas for a six-week world trip. First stop was Hong Kong, where we were regally entertained by the Hong Kong Hydrographer, and CHA member, Nick Emerson. Nick took us out onto Hong Kong harbour, a ship enthusiast's dream, and showed us over his new SWATH vessel. We appreciated the opportunity to have a look at his organization and to discuss matters of common concern. Nick set up the department from scratch; his contract completes in September and I understand that he plans to return to UK — unless an interesting challenge presents itself elsewhere! As there may not be another newsletter before you leave HK, Nick, please accept the CHA's best wishes in your move. Stay in touch!

After a couple of weeks in the UK with family and friends (and no hydrographic involvement!) we headed to Toronto where we were met by Sam and Beth Weller. Frankly, Jane and I were overwhelmed by the welcome and hospitality. It was a great privilege to be able to meet up with Sam and other CHA members though they certainly set a punishing pace and almost killed us with hospitality! Thank you, one and all, for making us feel so very welcome and especially to Sam and Keith Weaver. We have to add that Niagara Falls greatly exceeded our expectations and our trip to the Welland Canal (Jane is VERY tolerant!) was fascinating.

After a flying visit to Mystic Seaport in Connecticut we headed for Washington DC where we caught up with Jack Wallace of NOAA. Here too, we were received regally.

It is obvious, from informal discussions with various colleagues, that changes of a similar nature are being visited upon various national hydrographic organizations by their governments at the moment. It also seems that many are struggling to continue their high level of service to the mariner whilst trying to adapt to government dictates. Some of these latter don't always seem to be very fully thought through. No doubt many of our members in the private arena appreciate some of the opportunities that are being provided by these moves - and good luck to you. True efficiencies are to be applauded and may well be needed but I feel we must be very careful that we do not adopt change for its sake alone or merely for ideological reasons. Admiral

Andreasen's article in Sea Technology earlier this year contained a very clear warning. We must be wary of throwing out the baby with the bath water!

Thank you again, to all the CHA members that we met up with, for your hospitality and friendship. We hope you'll give us the chance to repay some of it when you are passing through Auckland.

It is back to work now and I am at the RNZN Hydrographic Office. Shore bound and enjoying it for the novelty it presents at the moment. However ...

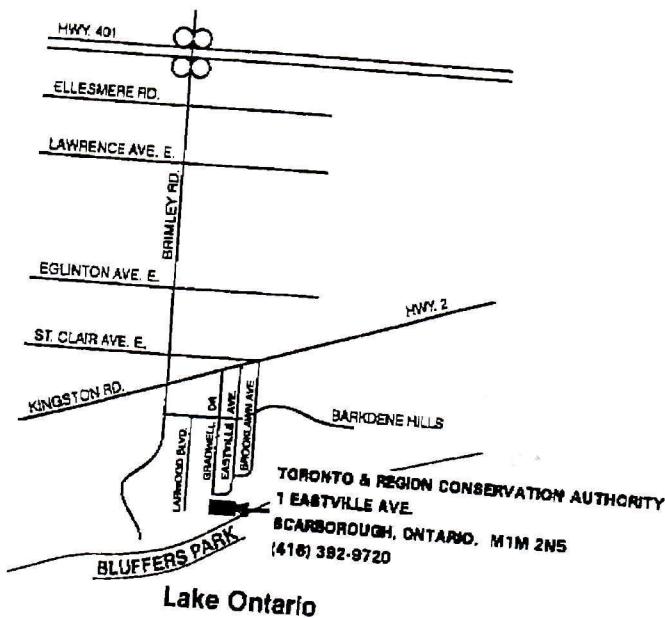
And many thanks, Central Branch, for the CCIW Recipe Book "Beware of the Geese" you presented to us [to me?]. Jane and I are now working our way through it. There is a wonderful selection of recipes from around the world, each submitted by one of our CHS colleagues or one of the scientists in your building, the Canada Centre for Inland Waters. We have tried two of the recipes thus far and are VERY impressed!

Keep in touch, everyone. Drop me a line with your latest newsy item — your letters and cards are much enjoyed.

Try this: our NZ Region Hydrographic Society Web site: <http://www.hydrosoc.org.nz>

LARRY ROBBINS
42 Knights Road, Rotheray Bay, Auckland 1310,
NEW ZEALAND

Map for CHA Meeting, 8 October



Branch Members on CHS Field Surveys

By Keith Weaver

Some of us have already had a busy summer, and there's lots more to do. Back at the office it appears more like a revolving door than a workplace.

To start with, the Georgian Bay Survey was this year's first survey and has been completed, running for about six weeks aboard *CCGS Griffon*. The HIC was John Medendorp, Al Shepherd began with the survey and hydrographers Helen Fuchs-Trapp, Andrew Leyzack, Tim Janzen and Paola Travaglini took the second shift. The launch *Petrel* was transported mid-survey for multi-beam data collection. Regular single-beam soundings were collected by hydrographers sounding in four Hourston launches and one LFGB launch, all outfitted with Knudsen 320 sounders. They were positioning using Novatel RT20 DGPS and using the helicopter for position calibration, hi-maps photography and shoreline. Two DGPS reference stations were set up, one on Double Top Island and the other at Red Rock Light. They also had Northstar 941XD DGPS that could use broadcast Differential GPS.

Another Central and Arctic Region survey, the Hudson Bay Survey, left from Prescott the second week of July, again on board *CCGS Griffon*. The survey is working around Churchill, Coral Harbour, Whale Cove and, if time permits, Resolution Island. You'll find Jon Biggar as the HIC, Terese Herron (Editor of our CHA journal *Lighthouse*) as 2-IC, and hydrographers Arnie Welmers, Glenn Toldi, and Carol Robinson. They are running two of Atlantic Region's Nelson-type launches and a Hourston launch, positioned by GPS.C, which is a system broadcasting differential corrections via satellite communications, as well as their own reference stations. All the launches are using the Elac sounders and digitizers. The multi-beam system is also aboard (on the *Petrel*, P-Boat) and being crewed by Tim Janzen, with data processing by Paola Travaglini

Both these surveys are using ISAH dataloggers. Data processing continues to be done on VAX/VMS hardware using both Xwindows and CARIS and Tektronix graphics for single-beam data. The surveys prefer to use an AlphaStation 200 4/100 for CARIS rather than the conventional VAX due to its increased processing power. Multi-beam continues to be processed using HIPS and SEE-BED using two AlphaStations.

Another survey is being conducted from *CCGS Wilfred Laurier*. Andrew Leyzack is the HIC and Ken Dexel the hydrographer. They are destined for Simpson Strait using similar equipment as the previous two surveys.

Bathurst Inlet Survey is being conducted by a multi-regional effort aboard *CCGS Nahidik*. Knut Lyngberg

(CHS Pacific Region) is HIC and Dan Dexel is hydrographer. This survey will be using HIPS with single-beam processing on an AlphaStation. This is the planned replacement for the VAX/VMS processing system and is undergoing final testing, integration and implementation issues during Pacific Region's survey season, and especially this survey. Planned deployment of the system for full production (by all Regions) is expected by the year 2000 survey season. This team will also be using GPS.C via M-sat.

Revisory Survey, with Raj Beri HIC, was assisted in May by Janis Davies as a rotational three-week assignment. They have been trailering a Mckee equipped with Knudsen sounder and positioning using Novatel RT20.

Revisory is using two CHS reference stations. Their typical operation is to either log data from both reference stations and post process or to log DGPS data on the launch using one of the reference stations.

Revisory have visited various harbours on Georgian Bay, Lake Huron and Lake Ontario. They are now in South Baymouth conducting a small survey to be incorporated into an electronic chart for the ferry *Chi-chimaun*.

They also have an ENC system in an equipment case consisting of a Northstar 941XD DGPS receiver with a Panasonic CF25 ruggedized laptop. This system uses Nobeltec's Visual Navigation Suite and is used to verify/check accuracy of our charts from the user's viewpoint. They also have a program called Fugawi with a digitized topographic map to try out. Currently the only CD available consists of 37 maps around cottage country (north of Toronto) but a CD for the Niagara region plus the Bruce area is due out shortly.

In addition to the equipment mentioned above, most of the survey teams also had a BakPak system, which uses a Novatel RT20 with a GLB DGPS receiver and a Psion Workabout data recorder.

Central Branch Member Brent Beale has been on a liaison assignment with Nautical Data International in St. John's Newfoundland since September 1996. Brent is now back in the fold. Welcome home, Brent.

And of final note, Fred Oliff, our Branch Vice-President, is on an exchange with Maritime Region. He is in the CHS offices at Bedford Institute of Oceanography, Dartmouth, NS.

The fall is now rapidly approaching so see you all again soon at the meeting on 8 October at Jim Berry's place. We'll be car-pooling so please check with us for details.



From the Outhouse

by Jim Berry

Thought it might be a good idea to come out of retirement to bring to light a number of important issues affecting us OH'ers.

ISSUE # 1 – SPREAD THE NEWS:

You as a dedicated OH'er realize what a great organization we belong to. You love the newsletter, Lighthouse magazine, "surveyors" re-enactments, social events, evening meetings (including the free beer and pizza), but most of all, the knowledge shared by other professionals who love being called "Hydrographers".

So why are you keeping it a secret from the rest of the world? Help us spread the news. Send me the names of 2 friends, business associates, or any other person you feel would benefit from membership in the Canadian Hydrographic Association. (Don't forget to include your own name and address.) I will contact them and offer them the opportunity to join the CHA. For each person you suggest who joins, your name will be automatically added for a prize draw to be held at this year's Annual General Meeting.

ISSUE # 2 – MILLENIUM 2000:

Any great ideas for a CHA Millenium 2000 project, activity or whatever that Central Branch could be involved with? No, Sean, not a bigger boat. How about a space station instead, or a \$2,000 scholarship fund? Whatever. Let me know your thoughts.

ISSUE # 3 – YEAR 2000 BUG:

We've read so much recently about the potential effects of the "confused computers" come January 1, 2000. It has been predicted that elevators will stop, phone systems could drop calls, utilities could interrupt power, sewage systems will malfunction, and even pacemakers will be affected. Has anyone actually thought about how this will affect hydrographers? What will happen if all the computers used to control the water levels in the Great Lakes malfunction and confuse zero International Great Lakes Datum for zero Mean Sea Level? The Great Lakes would be dry. Our charts would end up in the recycling containers. Can you imagine the chaos. One thing for sure, you won't need any sophisticated sounding equipment to survey the lakebed. Can you imagine the legal risks and liability claims stemming from this "Electronic Attack"?

As I write this article there are only 547 days left until the year 2000. Time is running out. Maybe an OH'er may have a solution to this. Maybe even Beth can solve this with her "Lighthouse Puzzler". Send me your suggested solutions to this catastrophic crisis and we'll publish them in upcoming issues.

ISSUE # 4 – WRITE TO US:

We always like to hear from our fellow OH'ers and will print your comments, ideas, or what you've been up to. Send me a letter, fax, or e-mail.

And finally, a fellow worker of mine came across a magazine article while waiting in the lobby at Northway Mapping. It's by our good friend Steve Ritchie and titled 'As it Was'. This article contained in the December 1997 issue of Hydro International, talks about the Heritage Launch "Surveyor", the history behind it, and our re-enactment of the '1792 survey of Toronto Harbour. Let me know if you would like a copy of the article.

Until next time, don't forget: OH'ers grow better flowers.

Letter from New Zealand

Hi Sam,

I'm permitting myself the indulgence of a quick note before the rush of teaching begins this morning.

You provided a great welcome for Larry Robbins when he visited and from the sounds of it kept them as busy as visiting royalty. As you must be aware, Larry has now taken up the post of Hydrographer of the Navy. Comdr. Peter Usher, the former Hydrographer, has gone on to an overseas diplomatic posting.

I am teaching HYDRO II for the first time (I've had two runs at HYDRO I) and also have duties teaching parts of Communications, and Research Methods. It all ties together pretty well and there is a kind of synergy around the Department that is encouraging. I am also planning a course in nautical cartography jointly with Universal Systems for December.

Val and the kids are generally well if you discount the many headaches, backaches, cuts, bruises etc. Val and I will be going out to the movies tonight in a rare moment out. (The movie is 'Sphere', very hydrographic, in which a side-looking sonar is used to locate the fin of a spacecraft on the Pacific Ocean floor.) We do have two babysitters now on the list so things are looking up.

Best regards,

Peter Knight
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