



The Canadian Hydrographic Association  
Association canadienne d'hydrographie



# NEWSLETTER

\*\*\* March 2001 \*\*\*

Vol. 15, No. 3

## Canadian Hydrographic Association

### Central Branch

#### 2001 Executive

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## Central Branch Committees

### Communications and Publicity

Newsletter: - J. Weller, E. Brown, F. Oliff, L. Robbins  
Web Site: - J. Weedon, J. Dixon  
Lighthouse - A. Leyzack, J. Weller, F. Oliff

### Education and Development

Gerry Wade Memorial Library:  
- T. Janzen, F. Oliff, B. Power  
Seminars: - S. Hinds, J. Dixon, A. Leyzack

### Membership

Branch: - B. Power, J. Dixon, T. Janzen  
International: - A. Leyzack, G. Pugach, L. Robbins  
Elections: - F. Oliff, T. Janzen

### Social Events

H20 - E. Brown, J. Miles, B. Power  
BBQ - T. Janzen, J. Biggar  
AGM - F. Oliff, S. Hinds, T. Janzen, B. Power

### Admiralty Launch Surveyor

- J. Dixon, E. Brown, H. Duller, A. Leyzack, B. Power, B. Warrender

## CHA Central Branch — NewsLetter — March 2001

### Notes from the Branch Vice-President

Lighthouse, Edition 58 is sitting on my desk and the spring 2001 issue number 59 is well under way. Thank you Terese for your perseverance in what became probably the most tedious, time consuming and expensive journals that CHA has had to publish. As for 59, I'd like to thank the members of our Central Branch editorial committee for getting their bit done. They are:

- Rick Sandilands – CHS News
- Sam Weller and Jim Weedon – CHA, Central Branch News
- Fred Oliff and Carol Robinson – News from Industry

Every effort given by the members of a team (and the Central Branch executive is no exception) will add up to the sum total of success if we all pull together. No more is this apparent then when one of your oars is lagging behind stroke or not pulling its share of the weight with the rest of the crew. Join us this summer aboard the Admiralty Launch Surveyor and you'll see what I mean!

The Association of Canada Lands Surveyors, Offshore Consultation Workshop was a great success. As promised, I have provided Sam with a report on both the workshop and educational seminar to be included in this issue of the newsletter. CHA National contributing to the health breaks and Prairie Schooner Branch who contributed \$1500 towards the workshop lunch offset the cost of the event, which was put on at no small expense to the ACLS.

As one of the workshop topics focused on Data Collection, Sharing and Distributive Mechanisms I find it rather timely to mention that just the other day, a client asked that I supply him with point data which, as far as I was concerned, constituted my field notes of survey. I refused of course, stating that the product of our work was no less than the plan of survey and in this case our hydrographic field sheet. There are those who will argue that our only products are nautical publications and not field sheets. A digital data set used to compile a field sheet may be considered a product provided it has been verified and archived as such but the field sheet, whether digital or hardcopy is where the buck stops in my books.

The issue of data sharing touches upon what may be considered a matter of ethics. I believe the advent of Geographic Information Systems (GIS) and Information Technology (IT) has created the potential for the abuse of data. It is easy to grab a handful of digital data, crunch it up and plunk it into a glossy "product" which may give little or no credit to where the data came from or how it was collected. As a GIS 'professional' once said to me, "I'd sure like to get out and try my hand at the 'data-capture' end of things." I so wanted to tell him what to do with this buzz word 'data-capture' and that the business he was referring to was surveying.

— Andrew

### Omission

The success of our 30<sup>th</sup> Annual H<sub>2</sub>O Curling Bonspiel is largely due to the generosity of our sponsors. Central Branch's H<sub>2</sub>O Committee would like to acknowledge:

Emma's Back Porch of Burlington  
and  
Knudsen Engineering Ltd. of Perth, Ontario

Your contributions will be recognized in *Lighthouse* Edition 59.

### Central Branch Treasurer's Report

#### 31 December 2000 to 21 March 2001

Balance forward 31 December 2000:	\$ 1,467.83
<u>Receipts:</u>	
Membership Dues (2001)	\$ 1,050.00
Bonspiel	2,230.00
Miscellaneous	20.00
	\$ 3,300.00
	\$ 4,767.83
<u>Expenditures:</u>	
Postage	\$ 105.96
Seminars & Meetings	101.51
NewsLetter paper	126.12
Bonspiel	2,214.42
Stationery	442.71
	\$ 2,990.72
Working Balance 21 March 2001:	\$ 1,777.11

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**Note: To help the *Lighthouse* Editorial team and the Admiralty Launch Surveyor Committee, the Central Branch treasurer handles some of their income and expenditures (reported below). The balance is held available and is passed on as required.**  
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### *Lighthouse* Convenience account

Balance forward 31 December 2000:	\$ 1,267.19
<u>Receipts:</u>	
Advertising for CHC2002	\$ 3,000.00
	\$ 3,000.00
	\$ 4,267.19
<u>Expenditures:</u>	
Stationery	\$ 320.85
	\$ 320.85
Working Balance 21 March 2001:	\$ 3,946.34

### Admiralty Launch Surveyor Convenience account

Balance forward 31 December 2000:	\$ 2,616.51
<u>Receipts:</u>	
nil	
Expenditures:	
nil	
Working Balance 21 March 2001:	\$ 2,616.51

### Next Meeting

Our next meeting is on Thursday, April 26. This will be a lunchtime meeting instead of our usual evening event. It will be at *Big Star Restaurant* at 1250 Brant Street, Burlington, the first major plaza on the west-side of Brant Street, just north of the QEW exit onto Brant Street. A brief business part of the meeting will begin soon after 1200 noon, once everyone has ordered lunch (individual orders and bills).

A presentation by Jim Statham, Past President of the Association of Canada Lands Surveyors (ACLS), will follow lunch. Mr. Statham will lead a discussion on the *Association of Canada Lands Surveyors* and its connections to the field of hydrography in Canada.

## CHA Central Branch — NewsLetter — March 2001

### Minutes of General Meeting of CENTRAL BRANCH held on 21 March 2001

1) The meeting was at the Weller residence. Andrew thanked Beth and Sam for their hospitality and called meeting to order at 19:35.

#### Attendees:

Andrew Leyzack - VP- Chair  
Sam Weller -Treasurer, A/ Secretary  
Earl Brown Julian Goodyear John Halsall Brian Power  
Ab Rogers George McFarlane Jim Weedon

Regrets: Sean Hinds Tim Janzen Fred Oliff.

2) Minutes of the 22 February meeting were available. Action items:  
a. The plan is to catalogue and rent our videos. Andrew has not yet spoken to CHS about storing their videos. He now took the opportunity of offering space to CHS for their training videos.  
b. He has spoken with the CHC2002 committee about discounts and this is now under discussion.  
c. CHA National and CHA Prairie Schooner Branch were both sponsors of the ACLS AGM meetings and workshop.  
d. The AGM has been tentatively booked at *Mimico Cruising Club*.

Response to questions: the *Company of Master Mariners of Canada* welcomes guests at their meetings at *HMCS York*, Toronto, on third Tuesday of most months; and *Marine Heritage Association (MHA)*, Penetanguishene, is now titular owner of our *Heritage Launch Surveyor*, joining their existing fleet: schooners *Bee* and *Tecumseh*.

Motion to accept the minutes:

- Moved J. Weller/ B. Power CARRIED

3) Treasurer's Report: J. Weller presented the financial statement to date. The 2000 books are still with the auditor.

- Moved J. Weller/G. McFarlane CARRIED

4) Correspondence: (Andrew) From International Member Ron Dreyer, pleased to note Central Branch's initiative in sending Sam Weller to St. Lucia to collect his membership dues. From Brian Jones, Belgium, about International Membership. From B. Lusk: "...CHA should be proud to be so well served by Central Branch." [Thanks, Barry.] With B. Lusk and J. Wilcox [Pacific Branch] about Student Awards. Enquiries from six students who found our Gerry Wade Award on a web site; they will be followed up to see if they are appropriate for CHA support or possible publication in *Lighthouse*. Question: Why does CHA have a student award in two universities in British Columbia as well as the *CHA Student Award*? Andrew said this was discussed at past Directors Meetings and is on the agenda for the next one. In discussion on how this came to pass, a comment was that Provincial funding may have been available in BC, hence the second award. There is concern on the subject of CHA Awards: could they be coordinated? Both Awards are quite active, though no entries were eligible for the [National] *CHA Student Award* in 2000.

#### 5) Committee Reports:

Admiralty Launch Surveyor: (A. Leyzack for J. Dixon) There was a meeting at noon today but only two people came. Brian said we need to discuss the MOU with MHA: he went with Heimo to collect the launch last fall and found it not as well cared for as hoped. The launch was pulled out of the water but there were evidently no MHA people there to take care of it. We need to discuss options for future care as MHA are hard pressed to staff their own vessels. They have restructured their executive and may not have resolved all the issues implied in their undertakings. If they cannot meet the needs, we could accept return of ownership. It is used by Huronia Parks staff for their

sail training program and by our own group for special events. We need to review the situation. Question: Has the relationship helped our public exposure? (Andrew) High profile was given at the time in local newspapers and the launch is open to public viewing all summer. It may be just a matter of improving communications. The launch is now under cover on CCIW grounds.

Education/Memorial Library: In Tim's absence, no report.

Seminar: (S. Hinds regrets) Next meeting would probably be a noon or afternoon event at CCIW with Jim Statham speaking about ACLS.

Communications: Lighthouse: (E. Brown) The May publication date of Edition 59 will be met. Technical articles are in hand and he has received news from three of the four Branches: Quebec not heard from yet. National President has assured him that his Message will be done on time for this Edition. George McFarlane has given good support in finding two potential advertisers, both interested. George had good feedback from other firms, too. Earl got the Subscriber list from Sam but feels it is not in good shape and the status of most is unclear: some are listed as paid for 2000, some for 1999 and some for 1998. Sam said the list includes all paid Subscribers and is complete and up to date. The 1998 and 1999 Subscribers got no copies of *Lighthouse* for those years and their status has not been documented by the Editor or the Directors. Names from 1996 and 1997 are available for the new Editorial team. Earl said we need to blitz the hydrographic community to get *Lighthouse* back on track and keep it there. He plans to distribute Edition 59 at hydrographic gatherings such as the U.S. Conference in May. Thanks to kind support of CHS, office space with computer etc. is available at CCIW for the editor. The future looks good. Then there was more unhappy discussion about 1998 and 1999 Subscribers: they got nothing except one edition of *Lighthouse* in May 2000. What is the definition of Paid-up Subscriber? Who would be sent coming editions?

NewsLetter: (J. Weller) It continues on schedule and has strong support from many people who contribute interesting and worthwhile articles and reports. Input is always welcome; the summer and fall issues, in particular, have space for items of general interest.

6) Other Business: Andrew attended the ACLS workshop and offshore Working Group in Halifax, 7-9 March. CHS was a sponsor. This was a very fruitful workshop, resulting in a report that will probably become a White Paper to Science and Technology departments of the Canadian Government. Bruce Calderbank (V-P of PSB) was a presenter. Andrew has other literature for those interested and offered his report for publication in the NewsLetter [see back page].

7) The business part of the meeting adjourned at 20:48.

- E. Brown/B. Power CARRIED.

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Andrew Leyzack, V-P of Central Branch, spoke about GPS-C and its use on Arctic surveys. This special adaptation of the Global Positioning System can be tailored to give survey-quality positions across the arctic. DGPS gives good coverage in the Great Lakes areas but does not extend far north. With GPS-C, corrections are transmitted over several MarSat bands across the arctic. Separate corrections can be supplied for two beams in any one band. There is a cost: Andrew said it cost about \$11,000.00 for his survey team last year. This supplied air time and four receivers for a period of 6 weeks.

After the talk, we enjoyed our traditional beer, pizza and discussion.

## CHA Central Branch – NewsLetter – March 2001

### *Association of Canada Lands Surveyors AGM, Workshop and Seminar*

By Andrew Leyzack

In conjunction with their 17<sup>th</sup> Annual General Meeting, The *Association of Canada Lands Surveyors* (ACLS) hosted a one-day Offshore Consultation Workshop and a one-day seminar on Offshore Surveying. The workshop was organized by the ACLS Offshore Issues Working Group (a seven-member group represented by government and private industry of which Julian Goodyear is a member) and facilitated by Neil Anderson (retired Director of Planning, *Canadian Hydrographic Service* (CHS) Headquarters). It was an invitation to stakeholders from the Public and Private Sector to meet, discuss and present their views on survey and boundary rights issues ranging from data sharing to datum usage. Other issues included the requirements for well surveys, cable and pipeline corridor surveys to the need for a Property Rights Infrastructure to manage property rights in Canada's Offshore area. Dr. Susan Nichols (University of New Brunswick), Dave Monaghan (CHS) and two graduate students from UNB captured the presentations given by the various discussion groups. A white paper identifying the discussion issues with respect to the objectives/duties of the ACLS and legal survey requirements is to be produced by the ACLS for future presentation to science and technology Departments of the Canadian government.

The workshop began with opening statements from James C. Banks, President of the ACLS; Neil Anderson, Director of International Partnerships, Canada Centre for Marine Communications; and Doug Culham, Deputy Surveyor of Canada (East), followed by presentations from Private and Public Sector representatives on topics such as Offshore Jurisdictions, Survey Issues (new technology and its impact on surveys for offshore development, construction, directional boring and achievable accuracies), and Law of the Sea. During lunch (sponsored by the *Canadian Hydrographic Association*, Prairie Schooner Branch) Dr. Susan Nichols spoke on Good Ocean Governance. She outlined the details of three UNB case-studies contributing to an 18-month project (whose field component will be run as UNB field camps) focusing on coastal zone management and the development of a marine side to NRCan's GeoConnections initiative (to develop the Canadian Geospatial Data Infrastructure (CGDI)).

The afternoon was spent in round-table break out sessions where participants answered a raft of questions focusing on survey and boundary rights issues. Our table, which dealt with Survey Issues, held representatives from *Geodetic Survey of Canada* (NRCan), *Legal Surveys Division* (NRCan), *Canadian Hydrographic Service*, *Exxon Oil and Gas*, and *Geoconnections* (NRCan). As a team we prepared a presentation which answered questions in respect to:

- Cooperation and data sharing amongst the various collectors and users of offshore geomatic data.
- Datum transformations (Canadian Spatial Reference System vs. use of International Terrestrial Reference Frame).
- Technical and Administrative aspects of survey issues on Canada Offshore Lands.

Yours truly was charged with keeping our table's discussion focused and had the misfortune of standing before the workshop to present

our opinions. During open discussion, I did find out that CHS Atlantic Region has, with the assistance of UNB, developed a marine cable database. A copy of the workshop material and questions is available for those interested in reviewing it but all the table discussion results, including scratch notes, had to be turned in to the facilitator upon completion of the program. Overall, it was a well-organized and most productive workshop.

Day two was an educational seminar with presentations given as follows:

- Tim Lawrence (*Thales Survey Canada*): A presentation on offshore surveying related to pipeline construction and new developments in positioning technology.
- Susan Nichols (UNB): Good Governance on Canada's Oceans.
- David Gray (CHS): Canada's Unresolved Boundaries. A paper given in the last decade which still held much relevance to the outstanding boundary disputes existing between Canada, the US, France and Denmark.
- Pat Byrne (*Fugro Jacques Geosurveys*): A presentation on offshore surveying related to rig moves, construction, positioning, sub-sea acoustics precise navigation and glory holes.
- Ron McNab (*Geological Survey of Canada*): A presentation on extending national jurisdiction to encompass seabed resources in the Canadian Arctic using CARIS LOTS (Law of the Sea Solution).
- Dick Pickrill (NRCan): A presentation on SEAMAP, a combined NRCan, DND and DFO strategy to integrate seafloor data for ocean management in Canada.
- Mike Lamplugh (CHS, Atlantic Region): A presentation on East Coast Multibeam Surveys and the use of Brooke Ocean's Moving Vessel Profiler for acquiring sound velocity profiles.
- Bruce Calderbank (*Hydrographic Survey Consultants Intl.*): An overview of 3D Seismic surveys, positioning issues and the impact on aquatic life.
- Dennis Kingston (*Centre for Geographic Sciences* (Formerly *College of Geographic Sciences- COGS*)): A presentation on a new one-year Marine Geomatics Program (with Hydrographic Field Camp) offered through the college. Faculty may soon seek IHO Category B accreditation for the Hydrographic component and the development of course program delivery through distance learning.

The day's proceedings were videotaped for later circulation through the ACLS video lecture series. In all, the topics were very relevant to present-day issues, interesting and educational: worth the trip to Halifax.

It is recommended that CHS Central and Arctic Region stay abreast of Offshore Issues and Oil and Gas activities while assisting the ACLS, where required, in the support and development of the offshore surveying profession.