



Communique

Association of Canada Lands Surveyors Vol. 5 No. 2

WHY SHOULD YOU BE INTERESTED IN OFFSHORE CANADA LANDS?

The general membership of the ACLS has little intention of going to work in a boat or getting their feet wet, beyond perhaps doing some sailing or fishing during a break from work or while on holiday.

The involvement of the ACLS in offshore issues is seen by Council as a needed engagement to make more people and government organizations aware of the need for a viable offshore survey fabric and the role of ACLS surveyors offshore. This will aid the industries that are involved in

TABLE OF CONTENTS

Why Should You be Interested in Offshore Canada Lands?	1
President's Report	2
ACLS AGM Events	3
Offshore Construction Surveying From the CPD Committee	4
Executive Director's Notes	5
Summary of Council Meetings	6
Pipeline Installation	7
Professional Liability Insurance	8
Permits and Subcontracting	8

the offshore to work in an efficient and safe manner. To the ACLS members that go to sea for a living, this is a most welcome involvement.

In some respects Offshore Canada Lands is at a similar stage of development as to when the original Dominion Land Surveyors were undertaking the survey across western Canada. The ACLS has chosen, and is the natural choice, to be a leader in the offshore survey area, which will benefit all Canadians by ensuring proper consideration is given to offshore survey issues.

Rules, regulations and work procedures are being developed and revised to meet the needs of the Canadian offshore petroleum and telecommunication industries, to keep abreast with worldwide developments.

With Councils encouragement, the ACLS Offshore Issues Committee is

The Council and staff of the Association would like to extend our best wishes for the New Year. May you and your loved ones enjoy health and happiness, and you find 2001 a busy and prosperous time.

Offshore Canada Lands, continued on page 4

President's Report

Mark your calendar now for the ACLS Annual General Meeting to be held in Halifax, Nova Scotia on March 9 and 10, 2001. I look forward to hosting as many members as possible and I promise that you a very entertaining city. Please review the tentative plan for the meeting that follows later in this newsletter.

It is my pleasure to announce that our membership has voted strongly in favour of accepting an invitation by the Canadian association. We will be officially inducted in the New Year.

In national, continental and global forums, CCLS is recognized as the national voice for Canadian survey sociations. The ACLS is proud to join and fully participate in CCLS endeavours in the future.

The calendar year 2000 has been a very busy year for the ACLS Council. In addition to negotiating the requirements for a CCLS membership, we have had deleg Association AGMs. Also, representatives were sent to all CCLS meetings, the CIG AGM and the Canadian Hydrographic Service (CHS) conference that was held in Montreal.

To save on travel costs, we usually send t Coordinator, a short information meeting is usually organized for interested ACLS members to get a report from the Councillor and express their concerns. This system seems to be worki

two intertwined issues that are always raised. First every group expresses concern over the retirement-demographics of their members, declining membership numbers and lack of young new members. That leads geomatics and more particularly a career in land surveying. Of course, the first challenge is to make our

-active on the educational issues. A Geomatics Engineering Liaison Committee provincial survey associations and the ACLS all have seats on this committee.

Through a series of communications with our sister associations across the country, we have solicited members aintaining and enhancing survey education programs. Although the idea started in Ontario, and was aimed at keeping survey case law courses available, it develop for both geomatics professionals and students, this is known as our Distance Learning Initiative.

Of course the use of Distance Learning technology will benefit the ACLS Continuing Professional r first year of the two- CPD program is not mandatory at this time, however, I recommend that members fill out their forms and send a copy either directly to the CPD Committee or to head office for forwarding. CPD Committee members will

recommendations from them in the New Year regarding the structure of an ACLS Practice Review System.

Since January 2000 the ACLS Council has had eight meetings. These have been telephone conference -to face meetings at the Montreal AGM last March and a mid- -to face

meeting in Ottawa last September. Unless urgent issues arise, Council will continue to hold telephone conference meetings about every six weeks.

Our partnership with Legal Surveys Division of Natural Resources Canada has an important role in ACLS affairs. By their invitation, we have participated again this year in the annual Legal Surveys Division Strategic Planning Session.

Time and again, Legal Surveys Division has struck internal policies to support the ACLS. This is evident in the post-count form that they handle with survey returns and their more recent policy of only dealing with contractors for cadastral survey work that are permit holders or properly licensed ACLS members. The Surveyor General of Canada is an ACLS Council member. Many Legal Surveys Division employees are members on ACLS committees. The participation and support is greatly appreciated.

Our Executive Director, Jean-Claude Tétreault, has administered the recent contract to over-haul the ACLS website. We hope that members will find the new website even more useful in staying aware of Association issues.

Again I will say keep the Halifax, Nova Scotia AGM in mind for next March, and I look forward to reporting on more Association progress to you at that time. My best wishes to you for the New Year.

Jim Banks, President

ACLS AGM EVENTS

**All the following activities will be held at:
The Prince George Hotel, Halifax, Nova Scotia**

(For room reservations call: 800-565-1567, www.princegeorgehotel.com)

- SEMINAR ON OFFSHORE AND HYDROGRAPHIC SURVEYING: Friday, March 9, 2001, 8:30 A.M.- 5 P.M.
(Fee: \$100 plus HST)
- EVENING OUT AT THE GRAFTON STREET THEATRE:
Friday Evening, March 9, 2001.
- ANNUAL GENERAL MEETING:
Saturday, March 10, 2001, 9 A.M. – 5 P.M.
- ANNUAL LUNCHEON: Saturday, March 10, 2001, Noon.
- RECEPTION: Saturday, March 10, 2001, 5 P.M.

Details on the program, fees and registration will be posted on the ACLS Web site at a later date (January).

OFFSHORE CONSTRUCTION SURVEYING (2000) **Abstract of a March 8 Seminar Presentation**

The methods, and achievable accuracies, of positioning surface and subsea structures have changed dramatically over the years.

The “new” offshore oil and gas industry in Eastern Canada has been challenged with complex subsea developments of varying Engineering designs, which rely heavily on the precisions offered by the latest survey techniques.

In keeping with industry requirements, data collection procedures are exceeding positional tolerances as specified by the Legal Surveys Division (NRCan). The world of subsea acoustic positioning requires precise geodetic reference data to maximize achievable accuracies, and to insure consistent data sets.

The industry is changing, and the roll of offshore surveying companies has never been more important. The surveying companies must make informed and educated decisions on surveying procedures, datum selections, legal issues and data archiving to not only meet the current clients requirements, but to also insure consistency with future projects and developments.

This presentation will discuss the subsea and surface positioning requirements during the three-year development of the Terra Nova field offshore Newfoundland. Lessons learned by FJG as well as suggestions for future improvements will be presented for discussion.

Pat Byrne
Fugro Jacques Geosurveys

developing a Workshop and Seminar to be held in Halifax on 8 and 9 March respectively. The Workshop will be by invitation only to senior government and industry personnel. One of the deliverables of the Workshop is to have a briefing book available for purchase by the public late in 2001.

The Seminar will be open to the public and will be held just before the ACLS AGM on 10 March. There will be various topical speakers related to the offshore, as well a summary of the previous days Workshop will be presented.

The ACLS Offshore Issues Committee looks forward to your participation in Halifax.

Bruce Calderbank CLS
Member ACLS Offshore
Issues Committee

FROM THE CPD COMMITTEE

In November you received a Questionnaire on the ACLS CPD Program.

Council needs your comments for improvements and any concerns you may have, in order to allow Council and the CPD Committee to develop a Program that is suitable throughout Canada and achieves reasonable goals for the people involved and for the ACLS in general.

Please take the time to complete the Questionnaire when it comes in, and mail or fax your response to the Executive Director.

Thank you in advance of your considered reply.

Best Regards

Bruce Calderbank, CLS
Chairman ACLS CPD Committee

EXECUTIVE DIRECTORS NOTES

We are now entering the busiest time of the year for ACLS, thanks to renewals, elections and the organization of the AGM, Workshop and Seminar. We hope to get to Christmas at the same time as everybody else.

ACLS moved at the end of June to 1390 Prince of Wales Drive, Ottawa ON K2C 3N6. Sarah Cornett, the CCLS Executive Director, just moved in the office next to mine. I am looking forward to a long and fruitful relationship between ACLS and CCLS.

Distance learning

In the last issue of *Communique*, it was mentioned that we were gathering support from the Provincial Land Surveying Associations to promote the establishment of a national mainstream and continuing education program in cadastral studies available by distance-learning. Mission accomplished. A Steering Committee composed of representatives from most of the associations and ACLS has been formed and is active.

Web site

The new ACLS Web site is now up on the Internet at: www.acls-aatc.ca

A lot of work was put in this project and we hope you like it. There is more information available and we tried to make it more user friendly.

There are two new features to the site:

- Members listing: on the old site, the members' listing was just a list. On the new site, the visitor will have access to a search engine which will make searching for a member or a permit holder more efficient.
- Message board: an open forum for ACLS members to discuss any news and views among their peers.

A section of the site is accessible only to ACLS members who have the user name and password. If you need the user name and password, contact the ACLS office.

The site has been put up recently so there might still be some glitches. If you find problems please send us your comments as soon as possible.

ARTICLES FOR THE NEWSLETTER

In order to better inform the ACLS members and to make the *Communique* newsletter more interesting, we encourage our members to write articles.

The articles can be on any subject of interest to our members. Please send your article on a Word or WordPerfect format via e-mail at jct@acsl-aatc.ca

Best wishes for the New Year.

Jean-Claude Tétreault
Executive Director

SUMMARY OF COUNCIL MEETINGS

Since the April 25th meeting, there have been two teleconference meetings and one face-to-face. Here is a summary of the decisions taken by our representatives up to the September 23 face-to-face meeting:

1. May 30, 2000: Teleconference.
 - Council decided to hold its next face-to-face meeting in Winnipeg on September 23, right after the Association of Manitoba Land Surveyors AGM;
 - Approval of the Insurance Committee's Terms of Reference;
 - Motion to invite D. Bruce Farquharson, David J. Dediluke, Scott Netherton, David J. Hardwicke, David W. Strachan, Réjean Gingras, Ghislain Royer, Éric Choinière, Alain Lépine, Anne Cole, Maurice Power, William F. Crews and David Rochette to apply for their Commission.
 - Dale Scrivens will represent ACLS at the next Association of Saskatchewan Land Surveyors AGM;
 - J.C. Tétrault will represent ACLS at the next Ordre des arpenteurs-Géomètres du Québec AGM;
 - James C. Banks will represent ACLS at the next Association of Prince Edward Island Land Surveyors AGM;
 - Ian Edwards will represent ACLS at the next Association of Newfoundland Land Surveyors AGM.
2. July 11, 2000: Teleconference.
 - Welcoming of Susan Christie as the new Lay Councillor;
 - Decision to move the ACLS office to 1390 Prince of Wales Drive, Ottawa. ACLS will sign a collocating agreement with the Canadian Institute of Geomatics;
 - Decision to hold the next Council face-to-face meeting in Ottawa instead of Winnipeg because of the high cost of airfare at this time;
 - G. Carl Friesen will represent ACLS at the next Association of Manitoba Land Surveyors AGM;
 - Discussions on different scenarios of licensing and permitting;
 - Approval of the Discipline Committee's Terms of Reference;

- Approval of the Continuing Professional Development Committee's Terms of Reference;
 - Approval of the Offshore Issues Committee's Terms of Reference;
 - Decision to coordinate efforts on the Continuing Education in Cadastral Studies project with CCLS;
 - Approval of the RFP to design the new ACLS Web site.
3. September 23, 2000: Face-to-face.
 - Approval of the minutes of the ACLS Executive Committee and the subsequent actions in regard to a request for an opinion on subcontracting;
 - Review of a legal opinion and discussions regarding subcontracting. Decision on Councils position;
 - Discussions on different scenarios of licensing and permitting;
 - Decision to ask for a membership vote on ACLS joining CCLS as a full member;
 - If approval, by the membership on joining CCLS, G. Carl Friesen will be the ACLS representative on the CCLS Board of Directors;
 - The part of the CLS Regulations pertaining to examinations has been rejected by the legislative drafters so Council had accepted the ACLS Board of Examiners' recommendation to ask the Minister to withdraw the proposed Regulation amendments with respect to exam names;
 - Approval of the collocation agreement with the Canadian Institute of Geomatics;
 - Approval of the awarding of a contract to a consultant for work to recommend a practice review process for ACLS;
 - Approval of the Practice Review Committee's Terms of Reference;
 - Decision to send a form to all members asking for volunteers for committees;
 - James C. Banks will represent ACLS at the next Association of Nova Scotia Land Surveyors AGM;
 - James C. Banks will represent ACLS at the next Association of New Brunswick Land Surveyors AGM.

PIPELINE INSTALLATION (Abstract of a March 8 Seminar Presentation)

Offshore pipeline surveys occur in three main phases:

- 1) Pre-Lay Surveys – Site Clearance
- 2) Pipelay Surveys – As Trenched
- 3) Post Pipelay Surveys /As-Laid Surveys - OOS

Pre-Lay Surveys

Prior to laying pipe on or below the surface of the seabed, a pre-lay survey is performed on the proposed pipeline route. Data is typically collected using geophysical means such as; side scan sonar and sub-bottom profiles, and multibeam surveys. This survey is critical to ensure the proposed route is clear of hazards, man-made or natural, and the sub-surface geology is suitable for trenching operations.

Pipelay Operations

Typically, two vessels operate simultaneously with one performing trenching and the other laying the pipe. The trenching vessel is responsible to trench along the proposed route and to meet the required trench depth. Survey sensors are attached to a Remote Operator Vehicle (ROV) and the data is collected for post-processing. The results of this data are transferred to the lay vessel.

Pipeline Installation, continued on page 8

WE'VE GOT THE SOLUTION

MORASSE

GEODESY

- MAGNETIC MARKERS
 - ~ for soil
 - ~ for rock or concrete
 - ~ GPS marker
- PROTECTIVE COVERS
 - ~ aluminium
 - ~ mix lifts
- POST
 - ~ witness post
 - ~ raised characters

LEGAL SURVEY

- MARKERS
 - ~ aluminium
 - ~ plastic
 - ~ steel
 - ~ boundary
 - ~ terminus type
 - ~ CLS-77
 - ~ CLS-69
- STATIONS
 - ~ PK nails
 - ~ identified washers
 - ~ MAG nails

SERVICES

- ~ installation on the site for geodesic markers
- ~ design of special markers on request
- ~ markers to fit federal and provincial standards
- ~ shipping all around the world

"ASK FOR OUR BROCHURE"

J. P. MORASSE INC. 1321, Marie-Victorin, St-Nicolas, Quebec, Canada G7A 4G4
Tel.: (418) 831-3811 ~ 1 800 463-6866 • Fax: (418) 831-7827 ~ 1 800 463-8138
WEB SITE: www.morasse.com • E-mail: morasse@total.net

The pipelay vessel lays a continuous pipe from the stern of the vessel. The pipe is welded onboard and monitored for structural integrity. Another survey vessel with a ROV monitors the pipeline as it is laid in the trench or on bottom ensuring there are no problems with the physical installation.

As-Laid Surveys

Once the pipeline is in the trench, it is buried. The pipeline is again surveyed using an ROV as a platform for many survey sensors. This post-lay survey determines depth of burial and out of straightness (OOS) of the pipeline. The pipeline cannot be curved by a defined tolerance over a certain linear distance.

The data from the three phases of installation are merged into a final data set and aligned for production of charts. It is vital to control all data for horizontal and vertical correlation between pre-lay, laying and post-lay surveys.

Tim B. Lawrence, CLS
Thales Survey Canada

PROFESSIONAL LIABILITY INSURANCE

In the last issue of this newsletter, we mentioned that the Insurance Committee was looking into the **Warranty of Survey Work** issue. Mr. Roger Brett of Jardine Insurance Services Canada Inc. stated that no insurance company in Canada would allow their clients to warranty or guarantee their work. We then asked for an opinion from the CCLS Insurance Committee who replied by confirming that they accepted Mr. Brett's opinion and will not ask for another one.

So, the ACLS Insurance Committee is of the opinion that no ACLS licence holder should enter into a contract with a Warranty of Survey Work clause. If in doubt have your insurance company review your service contract before signing. Most, if not all, insurance companies offer this service free of charge.

A reminder that if you make a change of insurance company, you must submit a new evidence of insurance certificate to ACLS without delay and that if you have reason to believe that a claim action will be brought against you or you are presently being sued on a professional liability issue, you must notify ACLS as soon as possible.

PERMITS & SUBCONTRACTING

An excerpt from the Act respecting Canada Land Surveyors:

Section 57. No entity, other than a permit holder, may provide cadastral surveying services on Canada Lands or private lands in a territory.

As a result of an inquiry as to our interpretation of Section 57, the ACLS Council sought legal advice and has reviewed its position as a council. The opinion of the ACLS Council is that a contract to specifically perform cadastral survey services, with a prime contractor that does not hold an ACLS Permit, would make that prime contractor a supplier of cadastral surveying services on Canada Lands and this is contrary to Section 57 of the Act respecting Canada Lands Surveyors.