

The Canadian Hydrographic Association
Association canadienne d'hydrographie



NEWSLETTER

*** September/October 1989 ***

Canadian Hydrographic Association

Central Branch

1989 Executive

Vice-President:	Sam Weller	(416) 336-4732
Secy.-Treasurer:	Terese Herron	336-4831
Executive Members:	Jim Berry	(416) 267-2981
	John Dixon	336-4831
	Sean Hinds	336-4841
	Brian Power	336-4698
	Boyd Thorson	336-4729
	Keith Weaver	336-4538

Addresses:

Jim Berry
700 Krosno Blvd.
Pickering, Ontario
L1W 1G3

All others:

Canadian Hydrographic Association
P.O. Box 5050
Burlington, Ontario
L7R 4A6

Central Branch Committees

Lighthouse

Sam Weller, Keith Weaver, Terese Herron,
Boyd Thorson, Brian Power, Sean Hinds.

Newsletter

Sam Weller, Jim Berry, Terese Herron, Brian
Power, Keith Weaver.

Nominations

Sean Hinds, Brent Beale, Jim Berry, John
Dixon.

Membership

Keith Weaver, Sean Hinds, Jim Berry.

Publicity

Boyd Thorson, Jim Berry.

Seminar

Brian Power, Sean Hinds, John Dixon.

Wade Essay Award

Boyd Thorson, Keith Weaver, Sam Weller.

Notes from the Branch Vice-President

This newsletter brings minutes of the first Central Branch meeting since the summer field season. Welcome back! Now is the time to catch up with painting the bedrooms, cutting the grass, fixing storm windows, and all those other delights our families have been saving up for us.

And now is the time to catch up on CHA happenings and polish plans for the coming fall and winter months. This newsletter will help bring you up to date and as well as regular items it has a special article "The PR Principle" reprinted from The Ontario Land Surveyor by kind permission of the Association of Ontario Land Surveyors.

This newsletter also brings you our annual listing of Central Branch members, and this year we are also including a list of our International Members. This is a select group of people in various countries who are interested in hydrography in Canada and who have managed to get the annual dues to us each year. Currency restrictions make this very difficult in many countries, so being on this list is quite an achievement!

- J.H. (Sam) Weller.

Next Meeting

Our next Central Branch event will be an evening meeting at 2431 Cavendish Drive, Burlington (Brian Power's home) on Wednesday 1st November 1989 at 19:00 hrs.

The speaker will be Brian Power himself, and he will be showing a 16 minute video on the SWATH sounding system, followed by some discussion.

This meeting will also receive nominations for the 1990 Central Branch executive and beer & pizza will be served, so mark the date on your calendar. See you there!

News of our Members

Francis Charles graduated from the John S. Donaldson Technical Institute of Trinidad & Tobago with a Diploma in Surveying in 1968 and on being commissioned as Land Surveyor he joined the Mapping and Control Section of the Trinidad & Tobago Lands and Surveys Department.

He went on to obtain his Surveying Sciences degree at North East London Polytechnic in 1980 and later polished his education with a short stint in the CHS in 1985.

He was appointed as local advisor to the Government of Trinidad & Tobago/United Nations Development Program in 1982, helping to establish a Hydrographic Unit in his country, then in 1983 he was appointed Officer in Charge of this Hydrographic Unit. He is now Head of the Hydrographic Surveying Unit of Trinidad & Tobago.

Central Branch
Treasurer's Report to 29 September 1989

Balance forward 30 March 1989: \$ 6,692.55

Receipts

Membership dues	\$ 1,471.85
Sale of hats	354.75
Bank Interest	235.23
	\$ 2,061.83
	\$ 8,754.38

Expenditures

National dues	\$ 1,150.00
Postage	212.45
Meetings	227.60
Dinner for Malaysians	42.00
Per diem for Malaysians	4,465.85
Bank charges	6.00
	\$ 6,103.90

Balance 29 September 1989: \$ 2,650.48

Allocated Funds

Wade Essay Award	\$ 200.00	\$ 200.00
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Working Balance 29 September 1989: \$ 2,450.48

[Note: To assist the Editorial team, some Lighthouse money (reported below) is handled by Central Branch treasurer. This is passed on to Lighthouse on request.]

Lighthouse "Convenience" Account

Balance forward 30 March 1989: \$ 1,847.78

Receipts

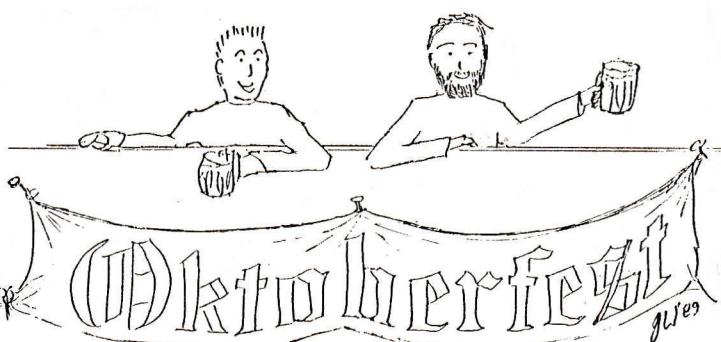
Subscriptions etc.	\$ 1,420.02	\$ 1,420.02
		\$ 3,267.80

Expenditures

Stationery	\$ 20.52
Refund	25.00
Bank charge	5.00
	\$ 50.52

Working balance 29 September 1989: \$ 3,217.28

"Let's do a bar check and hold our next meeting where they have the best beer!"



Minutes of General Meeting of CENTRAL BRANCH held on 4 October 1989

1) Sam called the meeting to order at 12:07 and welcomed those present.

Attendees:

S. Weller	- V-P	
T. Herron	- Sec-Treas.	
Brent Beale	Mike Bennett	John Dixon
Sean Hinds	John Medendorp	Ab Rogers
Brad Tinney	Boyd Thorson	Keith Weaver

2) MINUTES: The minutes of the April 5 meeting were circulated in the newsletter and were available at the meeting.

Moved: T. Herron/S. Hinds CARRIED

3) Terese presented the treasurer's report for the period 30 March to 29 September 1989 and moved that it be accepted.

Moved: T. Herron/B. Tinney CARRIED

4) Correspondence: As directed by our April meeting, Sam wrote to National President with our concerns about lack of notice & proxy votes etc for the AGM. No reply yet.

As well as membership mail, letters were received from the National President about applications for a Science Culture Canada grant and a CHS grant (both still pending); about involvement in Public Awareness program; about involvement in Geomatics Industry study; about our co-operation with The Hydrographic Society; and copies of progress reports on our three CIDA projects, along with a note about jobs available for instructors in Malaysia in 1990. Also a letter reminding us to submit our nominations for National President.

Sam then read out a letter from CIDA complimenting us on excellent reports submitted by Mr. McCulloch.

Sam also read out a letter about the retirement of Sandy Sandilands and the farewell function on Nov. 3 in Sidney. We are collecting donations for a gift. The money will be forwarded to Pacific Branch.

5) COMMITTEES:

Bonspiel: Boyd is looking for a convenor for the 1990 H2O. If you are interested please let him know. Letters and mailing lists etc from previous years as well as ice arrangements are in hand, so most of the work has been done.

Membership: Keith reported on membership to date, with particular mention of Krupp Atlas Elektronik our first Sustaining Member. [More details on Pages 3 & 6.]

Lighthouse: Keith reported that the artwork for six advertisers is ready to go and two are being followed up. Requests for social notes have been placed with the other branches. Sam reported that four articles are ready to go and three are in the works.

From the previous meeting Sam reported that the penalty for not submitting articles to Lighthouse is not being enforced.

Seminar: Sean reported that the next meeting will be in the evening at Brian Power's home with a video on the SWATH system. Also lined up is a luncheon meeting on November 22 at the Surf Restaurant with speaker Dr. Haig Vaughn from the Rivers Research Branch. Possible speakers for future meetings include Power Squadrons, Vic Cairns, and Dr. Barabas. Ideas for possible tours eg. Stelco, Seagrams, are being sought by Brian and Sean. If you have any suggestions let them know.

Wade Essay Award:

Boyd reported that the winner of the 1988/89 award was Gillian de Gannes with an essay on the Cartographic History of Australia. This winning entry will receive a prize of \$100.00.

Nominations: Now is the time to consider who should be on our Branch Executive for 1990. Sam said that because this is his third consecutive term as Branch V-P he will not be eligible to stand this coming year but as Past V-P will automatically be on the Branch Executive. The nominations committee for this year is Sean Hinds, Jim Berry, Brent Beale and John Dixon. Nominations must be in by the next meeting. Also any nominations for National President must be in by October 15.

6) The meeting was adjourned at 12:29

Moved: S. Hinds/K. Weaver CARRIED

Correspondence

We have received newsletters from CHA Branches in Newfoundland, Atlantic, Quebec, Ottawa and Pacific as well as minutes of Quebec Branch meetings. These have been circulated to in-house members and will be mailed to members on request. The CIDA progress reports and other correspondence items are also circulated when received.

The Correspondence files are available at our meetings and recent letters are reviewed at each Branch meeting. Files are open for reference at any time.

Nice doggie!

NEWARK, New Jersey (AP) - Nabisco Brands Inc. has the answer to Rover's bad breath - their new variety of Milkbone combines a breath mint with the dog biscuit.

It is a hit with the 100 dog test panel. "They've given it their five-paw rating," says Mr. Gutsche, the Nabisco spokesman.

Fido and Rover can select any flavour they want as long as it is mint flavour.

- Globe and Mail, May 23, 1988.

INTERNATIONAL MEMBERS of CHA [October 4, 1989]

Simon Baksh	Trinidad & Tobago
Lt. Cdr. Ian M. Bartholemew	Fiji
Maarten J.T. Beisterveld	Netherlands
Kells M. Boland	USA
Francis Charles	Trinidad & Tobago
K.T. Cheang	Brunei
Luis Leal de Faria	Portugal
Luis Alfonso de la Rocha	Antigua, WI
Randall J. Franchuk	USA
Noel Francis	Jamaica
George H. Goldsteen	Tasmania
Charles (Mike) E. Griffith	Barbados
Steven Hart	Bahrain
Lt. Zaa'im bin Hasan	Malaysia
Harri Kalaja	Finland
Trudy Kamphuis	Calgary, Alberta
Adam J. Kerr	Monaco
Nicholas J. Margetson	Netherlands
Charles D. Meador	USA
Capt. Keith Millen	United Kingdom
Matt Murphy	Ireland
Cmdr. Larry Robbins, RNZN	New Zealand
Frank P. Rossi	USA
Razalini Ruji	Malaysia
Pat Sanders	USA
Dip. Ing. Soegeng Soebagio	Indonesia
Ian M.M. Taylor	United Kingdom
'Etueni Tupou	Tonga

Report on Membership

The committee reports that the International Membership of CHA is now as listed above. In addition to these people we also have about 200 subscribers to our journal Lighthouse, many of whom evidently consider themselves to be members of CHA. If you know any of those subscribers please feel free to invite them to submit an application form and become full members of CHA.

Since our last Membership Report we have signed on four new International Members:

- Stephen Hart, hydrographic surveyor with the Survey Directorate of Bahrain;
- Pat Sanders, Director of Coastal Oceanographics, Durham, CT, USA;
- Nicholas J. Margetson, hydrographic student at Amsterdam Nautical College, Nederland;
- Captain Keith Millen, hydrographic officer with the Port of London Authority, UK.

Central Branch paid-up membership now stands at 78, with 38 members with CHS at CCIW in Burlington and 40 members in private industry etc. We also have Krupp Atlas Elektronik as a Sustaining Member, and our contact there is Karl Kieninger. The Central Branch members are listed on page 6.

CHA National Logo



This is our official National Logo!

As we announced in our last newsletter, Logo #1 of the five finalists was the clear winner and Boyd Thorson will be receiving his prize shortly.

The winning logo is somewhat similar to our existing logo, the changes being to bilingualize our name and to remove the "angel's wings" effect radiating from the lighthouse. The new logo will come into use as we renew our stocks of pamphlets. Lapel pins and other items are contemplated, and the new National President will no doubt be initiating these matters.

THE PR PRINCIPLE

BY ROBERT W. FOSTER, P.E., P.L.S.

CONSIDER THE case of Fred Foresight, a registered professional surveyor in a medium-sized city. He employs two regular two-person field crews, a drafter/graphics specialist, a computer/drafter and a secretary/receptionist. His teenage son is working for him for the summer. By adding a combination of his son, his drafter/graphics person or his computer/drafter, he is able to field three two-person survey crews to meet short term demand.

Fred handles all initial client contact, negotiation with lawyers and planning officials, research, billing and collections. He considers himself to be totally responsible for marketing his company's services. But on a typical day in the life of Fred Foresight Surveying Services Inc., the following events occur:

Fred briefs his two crew chiefs on their day's assignments, gives instructions to his office staff, then leaves to perform several functions out of the office, including research at the registry of deeds, a meeting with his banker and a conference with a client regarding a proposed commercial development project. Fred will be out of the office all day but gives his secretary/receptionist no details.

One of Fred's survey crews is sent to an industrial site where they are to re-establish a property line. It turns out that the line goes through the corner of a warehouse. The crew chief returns to the truck to check his work. While the second member of the crew is standing by the instrument, a stranger approaches and asks what is going on. The surveyor/technician explains that they have just re-established a property line and "it chops off the corner of this warehouse; somebody sure screwed up!" What he doesn't realize is that this "stranger" is his boss's client and is also the owner of the warehouse. Further, Fred Foresight performed the construction staking for the warehouse when it was built ten years earlier.

That morning a phone call comes into Fred's office. The caller is a prospective client who wants to talk to Fred

about a 40-acre survey. The secretary/receptionist says she doesn't know where Fred is or when he'll return. She neglects to ask for a number where the caller may be reached.

Five minutes later there is another phone call from a client asking for a progress report on his plan, due for a closing in two days. The secretary/receptionist isn't familiar with the project and calls the drafter/graphics (DG) specialist to the phone. The DG, who is overloaded with work and has no help today since the other drafter is in the field, knows that the client's project is way behind schedule. In his frustration the DG offers the explanation that the file on that project has been lost and he cannot tell the client when the plan will be done.

Fred's teenage son can only work in the morning on this day since he must spend most of the afternoon with his orthodontist. To keep him busy, the secretary/receptionist (in her de facto position as office manager) sends him across town to deliver a set of plans to a law office. Sonny arrives at the plush law offices of Tanner, Turner & Tort with his shirt unbuttoned to his navel and with his trendy high top sneakers untied. As he hands the roll of plans (not wrapped, no cover letter) to the attractive receptionist he makes a remark that he thinks is suave, cool and cute. To her it is fresh, rude and stupid.

These four incidents demonstrate that every one of Fred Foresight's employees' activities have public relations implications, for better or for worse. Every time an employee steps out of his home and comes in contact with people, he is relating a public image. The way he dresses, his manner of speaking, his personal conduct, all announce who he is. The same goes for his image as an employee. His behaviour reflects upon his employer and the firm. During company hours every employee becomes an ambassador of his working place.

An owner must be doubly aware of his own conduct, for he sets the mood for his company. If he gives little thought to how his company is coming across to

the public and his clients, then his employees will use that as a signal and will not care either. All it takes is one careless public appearance to leave a lasting and sometimes devastating impression.

The moral of the story is not that Fred should stay in his office all day, every day. He must go out to conduct business, meet with clients and do research at the registry of deeds. While away from his office he must rely upon his employees to make good impressions on the public when they meet them. For meet them they will, regularly and frequently.

Fred must recognize his vulnerability to the unintended public relations affects of his employees. Fred will hear about the unfortunate incident at the warehouse and the "lost file" explanation but he may never hear about the poor impression made at the law office by his teenage son, and he will never know about the 40-acre survey job he didn't get for lack of a return telephone number.

The PR Component

Building a strong public image begins with implementing a cohesive public relations strategy that communicates a business philosophy of competence and quality.

First of all, let's recognize that public relations is but one component of marketing, along with market analysis, advertising, sales and business development. Public relations implies public image and if a business has a poor public image, its whole marketing effort will be severely handicapped. So how does a business person - more specifically a sole proprietor, more specifically the surveyor/proprietor - conduct a public relations program?

Training

Fred should begin to train his people in some of the finer PR techniques. The first thing he should do is point out to them that they are all - without exception - involved in public relations. The unbuttoned shirt, the poor

This article is reprinted from The Ontario Land Surveyor with kind permission of the Association of Ontario Land Surveyors.

telephone technique, the ingenuous excuse for blown deadlines and the careless talk to strangers at the site, all have a dangerous and damaging impact on Fred's public image. Sullied reputation, lost work, even litigation may be the result.

Fred may hire a consultant to perform market analysis for his business. He may hire a graphic designer to work on unifying the image projected by Fred Foresight Surveying Services Inc. in its printed materials. Fred may even formalize his sales efforts by creating a file of potential clients and by making regular follow-up calls on current and past clients. But will Fred involve all of his people in his public relations program? Will he adjust their attitudes by educating them to the importance of their own conduct and communications with the public and the clientele? Assuming that all of Fred's employees have good intentions toward Fred and the business, he could, with a little effort, convert them to PR people with a positive impact.

Some Principles

A few principles are in order here. Fred's employees should never be put in a position where they must cover up for him. He should let his secretary/receptionist know where he is going and when he will return.

No one with telephone answering responsibilities should be put in a position of having to lie for an employer. The tell-him-I'm-out syndrome is bad for PR, bad for sales and bad for employee morale. It also establishes a style for the whole company in dealing with clients. It encourages employees to make excuses for all kinds of deficiencies in their own performance - even to their employer!

Another principle deals with assigning responsibilities. When a project is in schedule trouble, it should be clearly understood who is to communicate that fact to the client. Good client relations (a vital component of public relations) requires good client communications. If the job is in trouble and cannot be delivered on time, there is no refuge in procrastination. Tell the client sooner rather than later.

In the field, only one person should be in charge, and only one person should discuss any aspect of the project with the client or with curious passers-by. Gratuitous statements should not be made (e.g. "somebody sure screwed up"). The spokesperson should clearly understand who he is talking to: Client? Adjoining property owner? Newspaper

reporter? Busybody? Further, a client can be quickly annoyed and frustrated when discussing the project with the survey crew when everybody tries to talk at once. If the crew chief and the instrument person are both trying to explain the intricacies of surveying to the client, it appears that no one is in charge. That's a bad message to the client who may be paying a hundred dollars an hour for their services.

Though beauty is only skin deep, appearances can leave lasting impressions. Enough has been written about the way surveyors dress on the job without it having to be repeated here. But surveying can be a tough, hot, sweaty, sometimes dirty job. It takes extra care and sensitivity on the part of a survey crew who has worked eight hours on a dusty construction site on a hot summer day, to maintain a neat appearance when they stop for some refreshment on the way back to the office. The same is true for the company clerk who delivers plans to the offices of clients. They all carry the banner for their boss, advertising his style to the whole world.

Attitude Adjustment

Reference has been made here to attitude adjustment. It's a chain reaction. The public forms strong impressions from the attitudes of people offering services. The attitude which a survey crew has toward its work and appearance may be a direct reflection of the signals that their boss is sending out to the world.

Surveyors working in the field should see themselves and talk about themselves as providing a professional service. They are not labourers. They are people involved in a highly technical service which demands particular expertise shared by no other profession. Road signs should not say "Men Working in Road". They should say "Land Surveyors Ahead".

The same principle applies to the survey vehicle. Dragging tail pipes and flopping fenders are a poor image to project to the public. But the sign on the door of the truck is important, too. Some survey vehicles look more like Good Humour wagons than vehicles from which a professional service is to be delivered. A plastic magnetic sign hanging on the door suggest impermanence. Worse yet is the hand-lettered cardboard sign stuck in the window of a carry-all.

One of the tangible work products of the land surveyor's service is the monument he sets at a property corner. The form and appearance of the surveyor's work product carry important PR

connotations. Which is more impressive to the public as a sign of a professional service: an iron pipe driven into the ground at the property corner, knurled over like the tops of an old pair of boots, or a marker with a neat cap that reports the registration number of the professional responsible for its placement? The appearance of the employer's work product may indeed have a direct impact on the employees' attitudes toward their work.

Conclusion

Public relations awareness is not just for the proprietor who is starting out in business. Nor is public relations something we start doing when we decide that it is important. Public relations is something we are all doing all of the time, whether we recognize that fact or not. All employees of the surveyor in private practice are part of that proprietor's ongoing public relations campaign. The path to a healthy and successful business starts with involving everybody in a conscious effort to develop and maintain solid PR attitudes and habits.

Good public relations is everybody's business.

Robert W. Foster, P.E., P.L.S., is chairman of the ACSM Public Relations Committee.

CENTRAL BRANCH MEMBERS [October 4, 1989]

CCIW in-house (38 people)

Brent R. Beale
Earl Brown
Mike R. Crutchlow
John G. Dixon
George Fenn
Albert P. Gris
Sean Hinds
Al Koudys
Robert Marshall
Paul Millette
Denis H. Pigeon
Dave Pugh
Bruce E. Richards
Roger J.C. Robitaille
Dennis St. Jacques
Boyd Thorson
Ray Treciokas
Sam Weller
Jack Wilson

Michael Bennett
Bob Covey
Paul V. Davies
C. James Elliott
Helen Fuchs-Trapp
Terese E. Herron
Kenneth Hipkin
George D. Macdonald
John Medendorp
Hermo Nepomuceno
Brian Robert Power
Dave Pyatt
Donald K. Robertson
Rick G. Sandilands
John Shaw
Brad L. Tinney
R. Keith Weaver
Arnie Welmers
Bruce Wright

Private Industry etc. (40 people)

David J. Ballinger
James Berry
Michael J. Brent
Sean Chard
Frank B. Delph
J. Barry Fitzpatrick
John Halsall
Rear Admiral D.C. Kapoor
Darren Keyes
Ray W. Kowalchuk
T.D.W. McCulloch
Dan MacKenzie
J.W.L. Monaghan
Ross Munro
Richard C. Padmore
Norman A. Randa
Brad Robinson
S. James Statham
Nicholas C. Valleau
Paul E. Wessler

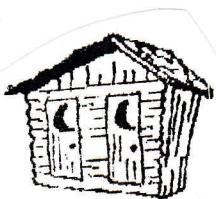
Guenter Bellach
Anthony M. Bonnici
Donald Carr
Joseph Delle Fave
Frank de Vree
Peter Fox
J. Scott Holladay
Ryk Karczuga
Don Knudson
Andrew Leyzack
H. Barrie Macdonald
Ken McMillan
R.L. Moulton
Stephen P. Nelson
Stephen Pelletier
Ken Richmond
A.R. Rogers (Life Member)
Mark B. Stortini
David G. Watson
Alfie Yip

.....

SUSTAINING MEMBER of CENTRAL BRANCH

Krupp Atlas Elektronik 1075 Central Avenue, Clark, New Jersey, USA 07066
[contact: Karl Wm. Kieninger, Manager Marine Systems]

Jim Berry's Column



Out-House membership is increasing so we made it a bit bigger to accommodate. The count now stands at 40 Out-House, 38 In-House. Last issue we asked "Editor" to put us on the front page but he kept us at the "rear" so I guess that's where we'll stay. Hope you all have your badges made. We'll judge for the best at the evening meeting at the Power residence. If you can't attend, send a photo or sketch of your badge and I'll make sure it is included.

The Out-House now has lots of room for more members so let's each of us sign up one new member.

Good to hear from John Halsall (J. Halsall Hydrographic Surveys). He's been busy on projects for Ontario Hydro, Metro Region Conservation Authority, Niagara Peninsula Cons. Authority, and recently as Consultant Surveyor for pre and post dredge surveys on a new bulk carrier port in the Caribbean. He sent his "Company Profile" which I'll gladly forward, or contact John at (416) 737-1075.

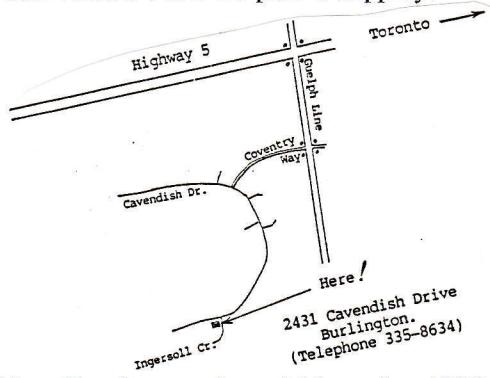
Karl Kieninger (Krupp Atlas Elektronik) sent us a note about the new FANSWEEP system introduced by KAE. He says "With the new FANSWEEP system, KAE is now applying the electronic beamforming techniques used in the deep-water HYDROSWEET to coastal areas". Harold Tolton of Surnav, the Canadian agent, would be glad to answer your questions. Contact him at (613) 723-1830.

Before the next issue I would like to hear from you about what you've been up to all summer.

Sorry to hear that pressures of the photographic business have made Richard Hancock, a former employee of mine, decide to resign from the CHA. A special thanks to him for his presentation at a recent meeting.

Don't forget to place your nominations for the 1990 Branch Executive and for National President.

That's it for now. Keep those cards and letters coming in and remember, if you are considering to purchase an Outhouse of your own you have an important decision to make; should it have a pit or a pail; if it has a pail let someone else clean it out if the path is slippery.



(Map: Evening meeting - 1 November 1989)

Lighthouse

Edition 40 (Fall 1989) of our journal is now in the final compilation/proof-reading stages. George Macdonald, the editor, says contributions are always needed for future editions and are always welcome: heavy or light, technical or general interest.

He also reminds us that there are two prizes of \$100.00 to be awarded each year for the best technical and non-technical articles. So get out your pens and finish that article you have been meaning to send in! It might get you \$100.00, not to mention the Brownie Points...

Coming Conferences - 1990

The year 1990 is going to be busy for our members who try to keep up with conferences... We have information of five such valuable events in 1990, so get out your Travel Forms and Vouchers!

U.S. Hydrographic Conference '90 is at the Omni International Hotel, Norfolk, Virginia, May 1-4, 1990. Co-sponsored by the National Ocean Service and The Hydrographic Society, theme is "Navigating the Nineties" with presentations and exhibits on a wide variety of scientific disciplines in hydrography and oceanography.

Canadian Institute of Surveying and Mapping annual conference is in Ottawa, May 22 to 25, 1990. This is co-sponsored by The Canadian Geophysical Union, with the theme: "To know the Earth". Presentations will be on a wide range of the survey fields represented by CISM and CGU including hydrography and cartography.

Canadian Hydrology Symposium: 1990 (CHS-90) is in Hamilton, Ontario, May 28 to June 1, 1990. The themes will be the water resource engineering areas of sedimentation, navigation, channel design and water quality, and the application of environmental statistics in the water resources area.

FIG XIX Congress is in Helsinki, Finland, June 10 - 19, 1990. [Those of us who were involved with the 1986 FIG Congress in Toronto will be eager for this one!] The Congress theme is "The challenge of the Information Society for Surveyors". Each of the nine Commissions will have a program of presentations and Commission IV (hydrography) will no doubt have the most outstanding program as it did at Congress XVIII in Toronto.

Hydro 90, the 7th Biennial International Symposium of The Hydrographic Society, will be at the University of Southampton, UK, 18 to 20 December 1990. This is co-sponsored by the International Hydrographic Bureau and the Nautical Institute as well as two other major groups. Themes cover wide areas of charting and navigating concern including the electronic chart, mean sea level, remote sensing, GPS, and the environment.