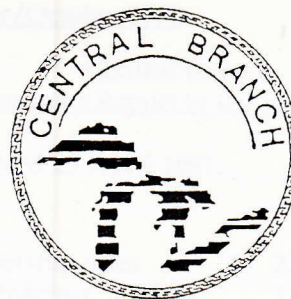


The Canadian Hydrographic Association  
Association canadienne d'hydrographie



## NEWSLETTER

\*\*\* September/October 1991 \*\*\*

### Canadian Hydrographic Association

#### Central Branch

#### 1991 Executive

Vice-President:	Sean Hinds	(416) 336-4846
Secy.-Treasurer:	Terese Herron	336-4523
Executive Members:	Jim Berry	(416) 392-9721
	John Dixon	336-4847
	Al Koudys	336-4833
	Ken McMillan	639-0931
	Brian Power	336-4847
	Keith Weaver	336-4538
	Sam Weller	336-4732

#### Addresses:

Jim Berry  
700 Krosno Blvd.  
Pickering, Ontario L1W 1G3  
FAX: (416) 392-9726

Ken McMillan  
489 Enfield Road  
Burlington, Ontario L7T 2X5  
FAX: (416) 639-0934

#### All others:

Canadian Hydrographic Association  
P.O. Box 5050  
Burlington, Ontario L7R 4A6  
FAX: (416) 336-4819

### Central Branch Committees

#### International Members

Sam Weller, Sean Hinds, Larry Robbins.

#### Launch Replica - Ad hoc

Ken McMillan, Jim Berry, Dennis St. Jacques.

#### Lighthouse

Sam Weller, John Dixon, Terese Herron, Sean Hinds, Al Koudys, Brian Power, Keith Weaver.

#### Membership/Nominations/Elections

Keith Weaver, Terese Herron, Al Koudys, Ken McMillan.

#### Newsletter

Sam Weller, Jim Berry, John Dixon, Sean Hinds, Brian Power, Larry Robbins, Keith Weaver.

#### Seminar

Brian Power, John Dixon, Ken McMillan.

#### Social Events

Sean Hinds, Jim Berry, Terese Herron, Ken McMillan, Brian Power.

#### Wade Essay Award

Terese Herron, Sean Hinds, Keith Weaver.

Notes from the Branch Vice-President

I hope that all Branch Members who have been in the field are now migrating to the warmer confines of the office where the coffee stays warmer longer and tends not to make you seasick watching it slosh about.

Our CHA BBQ was nicely timed to welcome back many members and a special thanks from all of us to Joanne and Bruce Richards for hosting us again this year. Credit is due to Molson Breweries and Canada Packers for sending us all home satisfied. This year was certainly a family affair with more than a dozen youngsters to keep parents on their toes and Bruce wondering how he'd ever straighten up his hayloft.

Election time has come around again and I would like to stress the hope that serious thought be given to this process. The next 12 month term in Central Branch will be rewarding but not without some expenditure of energy. Besides the usual housekeeping we have the Replica Launch Project which I expect to have all its oars in the water over 1992 and our commitment to the CHA Workshop and Registration at the 1993 CISM/CHS Conference in Toronto.

Plans are underway to repeat the success we enjoyed last year at our Central Branch Annual General Meeting. Not only is the beer cold, the food warm and the ambience unbeatable at Mimico Cruising Club, it is a unique opportunity to meet with a broad cross section of CHA Members. It also comes at a suitable time of year for merriment. See you at the polls and the AGM.

— Sean Hinds.

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Next Meeting

Our next business meeting will be held at 12:00 noon on Thursday 7 November 1991 in Room H122, CCIW, 867 Lakeshore Road, Burlington.

As well as regular business, this meeting will receive the report of the Nominations Committee with names of people nominated for election to the Central Branch Executive for the year 1992.

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News of our Members:

Peter Knight graduated from Humber College in 1980. At Humber he studied hydrographic surveying and was a classmate of Sean Hinds under the tutorship of Gerry Wade. In the early eighties Peter participated in the flurry of hydrographic activity that occurred in the private sector on the west coast, then returned to Ontario to attend the University of Guelph in 1983.

Presently a graduate student in the Department of Surveying Science at Erindale College, U of T, Peter is working in the areas of water boundaries and aspects of surveying that relate to Native lands.

Central BranchTreasurer's Report to 16 October 1991

Balance forward 29 April 1991: \$ 5,561.74

## Receipts

Membership dues	\$ 270.00	
Bank Interest	146.46	
		\$ 416.46
		\$ 5,978.20

## Expenditures

National Dues	\$ 1,380.00
Postage	185.49
Newsletter	158.70
Barbecue	183.35
Meetings	62.00
Bank Service Charges	6.40
	\$ 1,975.94

Balance 16 October 1991: \$ 4,002.26

.....

[Note: To assist the Editorial team, some Lighthouse income and expenditures (reported below) are handled by the Central Branch treasurer. The balance is held available and will be passed to Lighthouse on request.]

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Lighthouse "Convenience" Account

Balance forward 29 April 1991: \$ 2,091.38

## Receipts

Subscriptions	\$ 320.45	\$ 320.45
		\$ 2,411.83

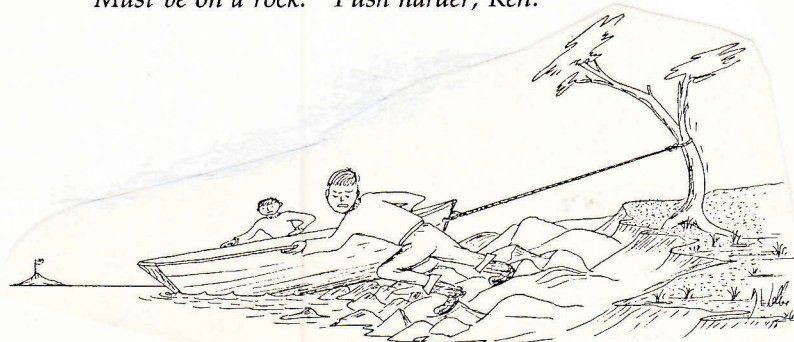
## Expenditures

Postage	\$ 578.58
Photo-mech work	50.60
	\$ 629.18

Balance 16 October 1991: \$ 1,782.65

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"Must be on a rock. Push harder, Ken."





Minutes of General Meeting of CENTRAL BRANCH held on 16 October 1991

1) Meeting held at 4062 Lorraine Cres., Burlington. Sean Hinds called meeting to order at 19:14, welcomed everyone present and thanked Sam for his hospitality.

Attendees:

Sean Hinds - V.P.  
Terese Herron - Sec.Treasurer  
J. Berry N. Cowey J. Delle Fave K. Dixel  
J. Dixon P. Englebert A. Leyzack P. Knight  
I. Morgan J. Medendorp K. McMillan B. Power  
A. Rogers K. Weaver J. Weller A. Yip

2) Sean presented Minutes of previous two meetings (30 April and 16 May). These had been circulated in the last newsletter and were available at the meeting.

Minutes 30 April 1991

- Moved J. Weller/J. Medendorp CARRIED

Minutes 16 April 1991

- Moved J. Medendorp/K. Weaver DEFEATED

After discussion on the 'motion to reconsider', it was agreed the motion to reconsider the motion of April 30 should read: Moved K. Weaver/B. Beale/CARRIED, and after the discussion text to enter the line: "The original motion being reconsidered was defeated."

Sam moved to accept Minutes of 16 May as amended.

- Moved J. Weller/K. McMillan CARRIED

3) Terese presented the Treasurer's Report to date:

- Moved T. Herron/J. Berry CARRIED

4) At the AGM on 30 November 1990 a Motion was passed that an Ad Hoc committee be formed to investigate the possibility of Central Branch pursuing a project to support and promote construction of a replica of a historic survey launch. This Committee was set up and consisted of Ken McMillan, Jim Berry and Dennis St. Jacques. Jim now reported on the work of the Committee, presenting its recommendations that:

*"the report of the Ad Hoc committee be received for discussion", and further that:*

*"the committee be abolished and the Executive Committee appoint a Working Committee to implement the project under the following guidelines":*

- the Canadian Hydrographic Association, Central Branch, be the project proponents;
- Ian Morgan be appointed "Project Co-ordinator" for a fee to be established by the committee;
- seed funding in the amount of \$5,000 be on hand prior to the commitment of any funds;
- the upset cost of the entire project not to exceed \$25,000 including all labour, material, equipment and taxes;
- the committee work within the limits of the defined "project objectives".

Jim moved the report of the committee be accepted.

- Moved J. Berry/K. McMillan

Discussion followed as to an appropriate fee for the Co-ordinator; seed money & where it would come from; concerns about total cost. These items to be addressed

by the Working Committee. Ian Morgan presented drawings and a wooden half-model of the type of boat being considered. Ken McMillan said we had enthusiastic reception from Harbourfront [Toronto].

The motion then ...

CARRIED

Sean said the Branch Executive will establish the Historic Launch Committee. All interested parties are invited to volunteer to be on the Committee or to help.

5) Maritime Boundary Seminar: Sean said a flyer went out two weeks ago offering sponsorship by Central Branch for two members to attend this seminar. Names have been received and one Out-House member name and one In-House member name were now drawn. Winners are Ken McMillan from McQuest Marine and Terese Herron from Canadian Hydrographic Service. Each will have the \$250. fee paid.

We have been asked to provide three speakers for the seminar: to cover Hydrography, Cartography and International Hydrography.

6) Social Committee: Sean said planning for the AGM is underway, and after the success of last year's event we expect a good turn-out. AGM is on Thursday 5 Dec. with a guest speaker. Our H2O Bonspiel is on Sunday 16 February 1992 at Grimsby Curling Club. We need a co-ordinator. If you are interested please let one of the executive know. Hope to see you there BOYD!!!

7) Wade Essay Award: Peter Knight is the winner of this year's Gerry Wade Essay Award. Sean presented Peter with a cheque. Congratulations Peter.

8) Seminar Committee: Brian said he and Keith will soon have a seminar line-up in place for the new year.

9) Other Business: Motion: *"that the Nominations Committee actively seek out nominees for election to the Central Branch Executive and prepare a report for the next meeting."*

- Moved J. Weller/K. Weaver CARRIED

10) Jim Berry moved to adjourn the business meeting.

- Moved J. Berry/B. Power CARRIED

• The business part of the meeting adjourned at 8:27.

\*\*\*\*\*

We then settled back and enjoyed a talk and slide presentation by Peter Englebert, Marine Archaeologist in Ottawa with the Ontario Ministry of Culture.

His talk covered past and present projects on the Great Lakes, including training for divers (and one especially notable course for disabled people). Peter also asked for our help: when we find wrecks in our work, please quickly pass information on to our office: Peter has a network of volunteer divers to assess and protect such valuable artifacts, and they might also be able to help us get details to include in our field reports.

Thank you, Peter, for an interesting and valuable insight into the story of our submerged artifacts.



From our International Correspondent

Well, the past few months went in something of a blur, and I apologize for the rather scrappy notes this time – well, scrappier than usual anyway! The HADLAPS project successfully completed Factory trials & training, I managed to relocate from UK to NZ (didn't manage to travel via Canada – sorry – but did get to Disneyland, perhaps second best!!), re-establish my house, be burgled, and get involved in HADLAPS installation & training which currently progress well.

I am delighted that MATTHEW SMITH from Racal, UK, is out here at the moment running the advanced operators' course. It is good to be working with him here in Godzone ["God's own country": New Zealand]. He may be seen these days at the RNZN Training Establishment in Auckland sitting behind a workstation screen leading 14 students through their paces (ducking lower behind the screen each time the NZ All Blacks win a game in the rugby World Cup!).

Matthew and I managed a weekend tour of the thermal area (boiling mud etc.) at Rotorua, NZ, last weekend, following in the tracks of JOHN WATT of Quester Tangent whom I took on a similar (but 1 day and hence more compressed) trip about 4 years ago. Otherwise, Matthew has kept "head down and bottom up" most of the time – which is the way it should be!

GARY CHISHOLM says he is looking forward to a few days at the end of this month in Johor Bahru, Malaysia, with DAVE PUGH (National President) who is running a month-long CIDA/CHA surveying course there. Gary is going over to show his HYDRO system. He says there's a lot of business for his company in Asia at the moment; that must be good in the current climate. He's off to USA after that, then to Australia for the Australasian Symposium in Sydney.

Preparations in Sydney are going well, and the list of papers to be presented shows a variety of topics with many interesting ones amongst them. I am looking forward to catching up with GARY there since he never seems to be in this country! – and hope that GEORGE GOLDSTEEN may also be there if he can drag himself away from Tasmania. Full report of the Symposium in the first NewsLetter next year.

PAUL DAY recently took some time out from his SYSTEM 960 "sums" to assist in a demonstration of the equipment in Scandinavia which I understand went well. ANDREW REDWOOD addressed the South-Western (UK) Region of the Hydrographic Society in early October and arrives in New Zealand later this month to undertake sea trials of HADLAPS. A small-boat sailor of some note, I hope he gets a bit of time to sample our very fine natural facilities here. During my time back I have really come to appreciate the clean air and open spaces of New Zealand which we

(as doubtless you in Canada tend to also) take pretty much for granted.

Racal and Krupp Atlas are both Sustaining Members of Central Branch and our editor tells me that Racal has the Ad-spot in this issue of the newsletter. Well done! It is heartening to hear of the support that these two major companies give to the CHA. How about other companies becoming Sustaining Members, team?

Now that I am back in New Zealand, it is even more difficult to do the "blood from the stone" trick and glean items of interest. If you do not therefore wish to read only of the RNZN, New Zealand, HADLAPS and Matthew Smith (who has earned honourable mentions in the past three NewsLetters!), you will need to send Sam Weller or me your bits and pieces of gossip! We could always run a crossword, I suppose, and fill up the space that way!

- Larry Robbins [Commander, RNZN].

**1991 CENTRAL BRANCH NOMINATIONS**

Dear Member,

This is a call for nominations to your 1992 Central Branch Executive. International and Out-House Members have had a growing voice in our Branch over the past couple of years and we hope this will encourage input to the Nominations Committee.

The positions available this year are:

Vice-President

Secretary/Treasurer

7 Executive Members

On pages 4 and 6 are lists of current members eligible for nomination. Please send (FAX #416-336-4819) or call-in nominations as soon as possible to one of us:

Keith Weaver (416) 336-4538

Al Koudys (416) 336-4833

Terese Herron (416) 336-4523

Ken McMillan (416) 639-0931

Nominations close at noon on November 7th and will be collated and reported to the Business Meeting that day, and ballots distributed in the November NewsLetter.

We look forward to hearing from you!

Yours sincerely,

R. Keith Weaver,  
Nominations Committee



INTERNATIONAL MEMBERS of CHA [16 October 1991]

Lt. Cdr. A.R.M. Al shehri  
Simon Baksh  
Peter Barr  
George Betts  
Ing. Fosco Bianchetti  
Goem. Giuseppe Biscontin  
Kells M. Boland  
Francis Charles  
Gary S. Chisholm  
Paul Day  
Luis Leal de Faria  
Fook Seng Kok  
Randall J. Franchuk  
George H. Goldsteen  
I. B. Habens  
Adam J. Kerr  
Micheal Owen Kirton  
W. P. H. Kouijzer  
Austin Kovacs  
Charles David Meador  
Dr. Stelios Mertikas  
Captain Keith Millen  
Ross Munro  
John Pointon  
A. Redwood  
Cdr. Larry Robbins  
Wayne Ross  
George Sellers  
Matthew John Smith  
Jack L. Wallace  
Steven G. Withrow

Saudi Arabia  
Trinidad & Tobago  
Canada  
USA  
Italy  
Italy  
USA  
Trinidad & Tobago  
New Zealand  
United Kingdom  
Portugal  
Malaysia  
USA  
Australia  
United Kingdom  
Monaco  
Australia  
the Netherlands  
USA  
USA  
Greece  
USA/United Kingdom  
United Kingdom/Canada  
United Kingdom  
United Kingdom  
New Zealand  
USA  
USA  
United Kingdom  
USA  
USA

\*\*\*\*\*

Membership Report

This has been an interesting year for our Membership Committee: we have very similar numbers of paid-up members as last year but there are still several regular members we have not heard from with their 1991 Dues. If you are in this category please drop us a line...

Since our last report we have signed up several new members to Central Branch:

- Steve Drumond, student with the Survey Dept. of Ryerson Polytechnic;
- David J. Flavin, with Clarke Matthews Ltd. (Land Surveyors), Windsor, Ontario;
- Stephen J. Kilty, with Digheem Surveys Inc., Mississauga, Ontario;
- Andrew Leyzack, transferred from International Membership (welcome back!);
- Rodney R. Reilly, Mapping Technician with the Government of Ontario;
- Paola Travaglini, graduate of Dept. of Survey Science, Erindale College, University of Toronto.

We are also pleased to welcome two International Members who have joined us in the last few months:

- Goem. Giuseppe Biscontin, hydrographer/surveyor with Civil Engineering, Venice, Italy;
- Fook Seng Kok, Hydrographer, of Kuala Lumpur, Malaysia.

Welcome aboard!



John Dixon doing control work in northern Lake Huron



### Maritime Boundary Delimitation Course

Consequent upon the adoption of the United Nations Convention on the Law of the Sea, all Coastal and Island States have acquired rights over extensive zones of jurisdiction in ocean space. An important task now confronting these countries is to define and delimit their new national maritime boundaries; a task inevitably involving legal and technical negotiations with one or more neighbouring states.

In order to assist developing countries in the training of technical management personnel in this field, the International Centre for Ocean Development (ICOD), a Canadian Crown corporation with headquarters in Halifax, sponsors a seven-week course each year. This course is conducted under the direction of Rear Admiral Kapoor at the Centre for Surveying Science, University of Toronto, Erindale Campus, Mississauga.

In the recently completed course there were participants from Antigua, Dominican Republic, Grenada, Madagascar, Mauritius, St. Lucia, Sri Lanka, Tanzania and St. Vincent. As in the previous three years, a participant from Malaysia was sponsored by the Canadian International Development Agency (CIDA) through the CHA.

Students are drawn from a variety of backgrounds and work experience, the last course, for instance, including hydrographers, land surveyors, marine biologists and a diplomat. Consequently, the course covers several disciplines including hydrography, geodesy, physical oceanography, earth sciences and international law as well as the specific subject matter relating to the Law of the Sea and the construction of maritime boundaries.

Sponsorship includes air travel, living and accommodation expenses in Canada, tuition and the supply of all course material including software.

This is a unique course and it is most heartening to see Canada actively assisting developing countries in an area which will have a considerable impact on future developments in the oceans and seas of the world.

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### Yes. I remember it well...

*"I have my 90th birthday coming up and people ask me what I'd most appreciate getting. I'll tell you: a paternity suit! Let's face it, I'm at the age now where just putting my cigar in its holder is a thrill!"*

- George Burns

(Quoted in Vintage Views, Oakville, Ont.)

### Wade Essay Award

The winner of this year's Essay Award in memory of our friend and colleague Gerry Wade is Peter Knight, student at Erindale College of University of Toronto.

His essay "Land Settlements and Aboriginal Self-Government" reviews the syllabus for the Native-Government Issues topic of the examination for Canada Lands Surveyors, and suggests that systems and techniques of surveying Native lands must come in part from the Native people themselves.

Congratulations, Peter!

### **Canadian Hydrographic Association \*\*\* Central Branch \*\*\***

#### **1991 ANNUAL GENERAL MEETING & DINNER**

Thursday 5 December 1991

at

Mimico Cruising Club  
Humber Bay West Park  
Etobicoke (Toronto)

CHA Members and Guests: \$20.00 per person

Cash Bar

Cocktail Reception 4:30 pm  
Annual General Meeting 6:30 pm  
Buffet Dinner 7:15 pm  
Guest Speaker 8:15 pm

For reservations and information please return the  
Registration Form with a cheque payable to  
"CHA Central Branch"  
to any Branch Executive Member or mail to:

Canadian Hydrographic Association  
P.O. Box 5050  
Burlington, Ontario L7R 4A6  
FAX: (416) 336-4819

Last day for Registration: Thursday 21 November  
(no refunds after this date)  
Photocopies or FAX of the form accepted for  
multiple Registrations.

Our thanks to Sponsors:

Kev-Tech Associates, Bolton  
McQuest Marine, Burlington  
Romor Equipment, Mississauga  
Canadian Hydrographic Service

MEMBERS of CENTRAL BRANCH [16 October 1991]

CCIW in-house (37 people)

Brent Beale  
Jon Biggar  
Bob Covey  
Paul V. Davies  
John G. Dixon  
George Fenn  
Terese E. Herron  
Kenneth Hipkin  
George D. Macdonald  
John Medendorp  
Denis H. Pigeon  
Brian Power  
Bruce Richards  
Roger J. C. Robitaille  
John Shaw  
Boyd Thorson  
R. Keith Weaver  
Arnie Welmars  
Bruce Wright

Mike Bennett  
Earl Brown  
Mike R. Crutchlow  
Ken Dixel  
C. James Elliott  
Helen Fuchs-Trapp  
Sean Hinds  
Al Koudys  
Robert Marshall  
Hermo Nepomuceno  
Mike Powell  
Dave Pyatt  
Donald K. Robertson  
Rick G. Sandilands  
Dennis St. Jacques  
Brad L. Tinney  
Sam Weller  
Jack Wilson

Private Industry etc. (36 people)

Geunter Bellach  
Donald Carr  
Joseph Delle Fave  
Ron Dreyer  
Riaz Farooqui  
Peter Fox  
J. Scott Holladay  
Ryk Karczuga  
Peter Knight  
Ray W. Kowalchuk  
T. D. W. McCulloch  
J. W. L. Monaghan  
Richard C. Padmore  
Rodney Reilly  
A. R. Rogers (**Life Member**)  
Paola Travaglini  
Tien Vu  
Paul E. Wessler

Jim Berry  
Bill Clarke  
Frank B. Delph  
Steve Drumond  
David Flavin  
John Halsall  
Rear Admiral D. C. Kapoor  
Stephen Kilty  
Don Knudsen  
Andrew Leyzack  
R. Kenneth McMillan  
J. Robert Morgan  
Norman A. Randa  
Ken Richmond  
S. James Statham  
Nicholas C. Valteau  
David G. Watson  
Alfie Yip

.....

SUSTAINING MEMBERS of CENTRAL BRANCH

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

Racal Positioning Systems Ltd., 118 Burlington Road, New Malden, Surrey, United Kingdom KT3 4NR  
[contact: Ivan P. Whatley, Sales and Marketing]





Jim Berry's column

Couldn't resist this column in the Hamilton Spectator on 31 July & got special permission to reprint it in our newsletter. John Kernaghan sounds like a fine potential Out-Houser...



**John Kernaghan**

## Don't give our team bum's rush

TORONTO — I tell you, I'm one proud Canadian.

I say that knowing our 650-strong Pan American Games team heads for Cuba today with our resources totally behind them.

The bottom line? About 125 toilet seats.

I repeat, our team will take 125 toilet seats to Havana, making sure that something comes between them and defeat, or embarrassment. Moreover, these seats are neon-colored.

"We were in Cuba in May and we noticed in some of the hotels and housing that there were no toilet seats," explained chef de mission Diana Duerkop. "So we got some."

For a while there, it looked like standing on guard for thee would take on new meaning.

Now, considering this extravagance, we can expect everyone on this junket to work his or her butt off. No bringing up the rear. And most of all, no bathroom humor, eh?

After all, the usual alliance of the athletic infrastructure and private enterprise combined to provide what Fidel could not.

Pan Am staging manager Jim Murray took note of the prevalent toilet brand in Cuba and phoned American Standard. He was put on to a subsidiary, Olsonite of Tillsonburg.

"I talked to a guy there named Mike Laporte," related Murray, "and he said he would see what he could find in the company's Obsolete Toilet Department."

Obsolete Toilet Department?

"That's what he said. He phoned back the next day and said he checked the records and found that the toilets in Cuba were almost all from the 1950s, before Castro came into power.

"But he said there were newer toilet-seat models out which matched up with those 1950 bases and they'd be happy to supply them. But they were in hot-neon colors.

### 'Bonus'

"They come in red, pink and green. We said, great, the bonus is our people will always be able to find the toilet in the middle of the night."

Our team members' toilette will also include two rolls of toilet paper, one bar of soap and 105 litres of bottled water per person.

And this is not just any water. It's trucked in from Pugwash Junction, N.S.

As for the unwashed media on this trek, they're on their own, except from some words of advice from Team Information Officer Frank Ratcliffe, who makes this thing sound like a Scout outing.

Under things to take with you, he lists:

"Soap. The bars provided by the hotel are about the size of nine Chiclets.

Toilet paper. The quality isn't bad, but it can be a little unnerving to watch your supply dwindle and wonder when another roll will end up in your room.

Alarm clock. Don't rely on a wake-up call."

Ratcliffe was tough on Cuban cuisine, too, saying of the buffet meals at the media hotel, "the Pavlovian drool response may be negated by this particular buffet."

Javelin thrower Steve Feraday impaled the image of coddled Canadians facing culture shock.

"I think one of the reasons we get so little money as carded athletes is to prepare us for these situations," he joked. "We don't notice any difference in the standard of living.

"But this is going to be a lot better than Morocco, where the Francophone Games were held. You talk about toilet seats. There were no toilets there. You had to stand."

Chef de mission Duerkop, meanwhile, feels Cuba is getting a bad rap in the American press all out of proportion with the minor problems with Pan Am preparations.

"I think these will be the best Pan Ams ever, better than the Americans put on in Indianapolis. And after three visits I really like the country. There is some deterioration, sure, and they drive old cars, but there is no visual pollution from signs like we have in North America and little noise pollution like we experience.

"I really love the architecture, the old Spanish buildings which have been maintained. What they've done with the boxing venue, building it inside the facade of a beautiful old building, will open a lot of eyes."

So will those hot-pink toilet seats.

Racal Positioning Systems Ltd., a Sustaining Member of Central Branch, accepted our offer of this month's Ad-spot. Racal design, develop and supply positioning and automated hydrographic survey systems. Terrestrially-based systems operate at micro-wave frequencies and in the 2 MHz band; differential GPS solutions are offered using microwave, 2 MHz and INMARSAT as a link. Racal also offer automated hydrographic systems world-wide through a network of associated companies and agents.

*[Thanks for Positioning this spot with us... Ed.]*

### Racal Positioning Systems Limited

Burlington House,  
118 Burlington Road,  
New Malden,  
Surrey KT3 4NR,  
England.

Telephone: 081-942 2464 / 2488

Telex: 22891

Fax: 081-942 6630

The Electronics Group **RACAL**