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New international standards for hydrographic surveys adopted

Result of 4-year effort by Working Group

by Jerry Mills, NOAA, Coast Survey, Silver Spring, Md.

Background

The International Hydrographic Organization (IHO) formally approved new standards for hydrographic surveys in January 1998 after receiving voting papers from 35 Member States. This was the culmination of a nearly 4-year effort to update the Third Edition of the IHO's Special Publication No. 44 (S-44), entitled "IHO Standards for Hydrographic Surveys", which was published in 1987.

A Working Group of representatives from Australia, Brazil, Canada, France, Italy, Japan, Norway, Portugal, Spain, Sweden, UK, and USA (NOAA and NIMA) were directed to prepare a draft document to modernize the standards given the rapid development of new technologies — GPS (Global Positioning System), multi-beam and side scan sonar systems,

powerful inexpensive minicomputers and dramatically improved telecommunications.

As reported in the summer 1995 issue of *The Seahorse*, the new edition represents a slight change in philosophy about hydrographic survey standards. While retaining its primary focus on survey standards to support nautical charting, there is a greater recognition of the value of hydrographic survey data to a broader audience or customer base such as coastal zone management, environmental monitoring, marine data modeling and legal/jurisdictional determinations.

Although the standards do not specifically address these additional users' needs, they do provide a broader basis for assessing the quality of survey data than previous IHO standards by adopting four categories or "orders" of accuracy. (See table 1, page 3). These categories specify different accuracy requirements for different areas according to their importance for the safety of navigation.

Classification of surveys

Special Order hydrographic surveys are restricted to specific critical areas with minimum underkeel clearance and where bottom characteristics are potentially hazardous to vessels. These areas must be explicitly designated by the agency responsible for survey quality. This order is not intended for dredged channels but rather for areas where the seafloor is bedrock or boulder strewn.

Order 1 hydrographic surveys are intended for harbors, harbor approach channels, recommended tracks, inland navigation channels and coastal areas of high commercial traffic density where underkeel clearance is less critical and the geophysical properties of the seafloor are less hazardous to vessels (sand or silt bottom).

Order 2 hydrographic surveys are intended for areas with depths less than 200 m not covered by Special Order and Order 1 and where a general description of the bathymetry is

(See **Standards**, page 2)



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Standards (from page 1)

sufficient to ensure there are no obstructions on the seafloor that will endanger the type of vessel expected to transit or work the area.

Order 3 hydrographic surveys are intended for all areas not covered by Special Order, and Orders 1 and 2 in water depths in excess of 200 m.

Positioning

The required positioning accuracies in previous editions of S-44 were based on the scale of the survey due to the practical limitations of draftsmanship. Digital data management eliminates these limitations and allows data to be presented at any scale thereby making the old positioning standard obsolete.

The new standards are based to a large extent on the positioning requirements and capability of the mariner and, with the increased usage of GPS, are more demanding than before. One new aspect of the positioning standard is the inclusion of a depth-dependent factor which takes into account the added uncertainty of the positions of soundings from multi-beam sonar systems as depth increases.

Depth accuracy

The third edition of S-44 required that "the total error in measuring depths should, with a probability of at least 90 percent, not exceed 0.3 meter from 0-30 meters and 1% of depths greater than 30 meters." This did not include the errors associated with tidal measurements and zoning. The old standards addressed tides separately.

The new standards incorporate these tidal errors into the total error budget, raise the confidence level from 90 percent to 95 percent and recognize that there are both constant and depth-dependent errors that affect the accuracy of depth measurements and depth reduction. (See table 1 and the

associated formula on page 3.)

The result of these changes is that the new depth standard is very similar to the old standard for Order 1 surveys and somewhat more relaxed for Orders 2 and 3. Depth accuracies for Special Order surveys were not addressed in any previous standards but are far more demanding than those of the other orders.

Feature detection and sounding density

Feature detection had not been addressed by previous editions of the standards and proved to be a difficult topic for the IHO Working Group. Ultimately the concepts of system detection capability, line spacing and percentage of the bottom searched were adopted. The detection capability of a sonar system is directly related to its resolution (frequency and beam width). The line spacing specified in table 1 reflects the need for increased feature detection in shoaler areas transited by large draft vessels. The critical nature of Special Order areas requires 100% bottom search techniques to minimize the possibility of any undetected significant feature.

Conclusion

These new international standards for hydrographic surveys reflect the improved capabilities of modern technology and are intended to be better aligned with the needs of the mariner. However, it should be noted that these standards are not mandatory but are merely guidelines. Individual nations and their charting authorities will interpret and implement the standards in accordance with their capabilities and policies. Actual specifications for surveys in U.S. waters will be determined by the responsible agency.

Numerous other topics are addressed in the standards which are not

(See **Standards**, page 3)

DISCLAIMER

Mention in *The Seahorse* of commercial companies or products does not constitute an endorsement or recommendation by The Hydrographic Society. ⚙

Standards (from page)

included here due to lack of space. Additional information can be obtained from Jerry Mills at (301) 713-2780, ext. 116 or via e-mail at: Jerry.Mills@noaa.gov. Printed copies of the standards can be obtained from the International Hydrographic Bureau, 4 Quai Antoine 1er, B.P. 445 - MC 98011, MONACO Cedex, Principality of Monaco, or via e-mail at: pap@ihb.mc. For additional information on the IHO see their internet home page at: <http://www.iho.shom.fr>. ✪

TABLE 1**Summary of Minimum Standards for Hydrographic Surveys**

ORDER	Special	1	2	3
Examples of Typical Areas	Harbors, berthing areas, and associated critical channels with minimum underkeel clearances	Harbors, harbor approach channels, recommended tracks and some coastal areas with depths up to 100 m	Areas not described in Special Order and Order 1, or areas up to 200 m water depth	Offshore areas not described in Special Order, and Orders 1 and 2
Horizontal Accuracy (95% Confidence Level)	2 m	5 m + 5% of depth	20 ni + 5% of depth	150 m + 5% of depth
Depth Accuracy for Reduced Depths (95% Confidence Level) ⁽¹⁾	a = 0.25 m b = 0.0075	a = 0.5 m b = 0.013	a = 1.0 m b = 0.023	Same as Order 2
100% Bottom Search	Compulsory	Required in selected areas	May be required in selected areas	Not applicable
System Detection Capability	Cubic features > 1 m	Cubic features > 2 m in depths up to 40 m; 10% of depth beyond 40 m	Same as Order I	Not applicable
Maximum Line Spacing ⁽²⁾	Not applicable, as 100% search compulsory	3 x average depth or 25 m, whichever is greater	3-4 x average depth or 200 m, whichever is greater	4 x average depth

⁽¹⁾ To calculate the error limits for depth accuracy, substitute the corresponding values of a and b listed in Table 1 into the formula:

$$\pm \sqrt{[a^2 + (b \cdot d)^2]}$$

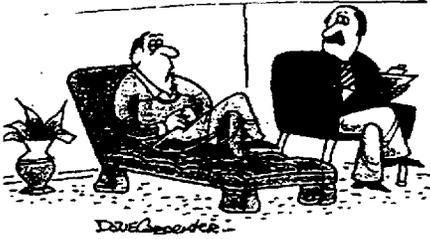
where

a is the constant depth error, i.e. the sum of all constant errors

b*d is the depth dependent error, i.e. the sum of all depth dependent errors

b is the factor of depth dependent error

d is the depth



"Could you be a little more specific, doctor?
Just how many cards am I playing with?"

Vodka from icebergs — Is that pure water or what?

from "Oceanspace" on-line magazine, with permission, from the Internet

The Sunday Telegraph (1/25/98) London reported that vodka made with water from icebergs, regarded as the purest available, is to go on sale. The government of Newfoundland has granted its first-ever license to harvest the ice for commercial use. Arctic glaciers up to 100,000-years old will be used to make the vodka, which will be sold in Britain under the name Vodka Borealis. The company will also sell chunks of ice billed as "designer ice" which will fizzle and crack during melting because of air pockets trapped inside.

"The bulk of the icebergs we will use were frozen in a period 10,000-12,000 years ago, when there was no pollution on earth. This water is the purest water you can find on the planet." said John Armstrong, who plans to import the vodka.

Specially adapted tugs will pull in the icebergs, which vary in size from small fragments floating in the water to others with a volume in excess of one cubic mile. However one doubter, Campbell Evans of the Scotch Whisky Association which uses pure highland water, was skeptical that the idea would catch on. "One hundred thousand years old seems quite young to me. Water has been flowing over our highland rocks for over 800 million years. The whole idea leaves me cold!" ✪

Membership dues increased

by Secretary Jerry Mills, THSOA

Members of the Executive Board of The Hydrographic Society of America (THSOA) met in early December 1997 to discuss the annual dues increase approved by The Hydrographic Society (THS) Council in October.

The board approved the following rate changes: Corporate from \$270 to \$385, Associate Corporate from \$150 to \$205, Individual from \$60 to \$75, Retired from \$30 to \$37.50 and Student will remain at \$20. These rates include membership in both the UK-based Hydrographic Society and THSOA. Members are advised that these increases are substantially less than those approved by Council due to the board's decision to offset some of the dues increase by retaining a smaller portion of the dues than allowed by THS.

The new rates went into effect on January 1, 1998, for Corporate members and will go into effect April 1, 1998, for Individual members. For those who may not be aware, membership in THSOA-only is also available for a reduced rate and accompanying reduced benefits. For more information on the differences in rates and benefits consult the membership application form on the inside back cover. ✪

Meet your new trustees

The following members have been elected to the THSOA board for 1998.

David Clarke

David Clarke is currently employed as the managing director of David Clarke & Associates, LLC.

DC&A is a systems integration company dealing with numerous hydrographic and dredging companies and GPS manufacturers.

Dave graduated (1975) from the Florida Institute of Technology (Jensen Beach campus) with a Bachelor of Technology degree in Oceanographic Technology. He worked first for a division of Texas Instruments (Geophysical Services, Inc.) as a party chief on board numerous offshore oil exploration vessels. In 1981, Dave joined ARCO Oil & Gas as their 3D data acquisition geophysicist and served with them until 1989.

Moving from Plano, Texas to New Jersey brought employment with innerspace Technology as their general manager. After 3 ½ years, he was asked by TSS (UK) to start TSS America, Inc. In 1995, TSS America moved to Houston, Texas, and Dave was then employed by Coastal Oceanographics, Inc., as their marketing director. After completing a three-year expansion program (program was completed in 1 ½ years) requested by Pat Sanders, Dave started David Clarke & Associates, LLC.

Dave's hobbies include ship-model building and restoration and he is very active in skiing and soccer.

Jon Dasler

Jon Dasler holds a bachelor's degree in civil engineering and is a registered professional engineer and land surveyor. He is certified by the American Congress on Surveying and Mapping as an inshore hydrographer and is a member of The Hydrographic Society of America. He is currently the hydrographic survey manager for David Evans and Associates, Inc.

With more than 18-years experience in hydrographic surveying, Jon has led numerous on-call hydrographic surveying contracts for the U.S. Army

(See **Trustees**, page 5)

Trustees (from page 4)

Corps of Engineers, Portland, Seattle, Walla Walla and San Francisco Districts and has been involved in marine archeological investigations in Flores, Guatemala.

Bringing all of this experience to bear, both of these men should represent us well on the THSOA board. ✨

Call for papers— U.S. Hydrographic Conference '99

by Karl Wm. Kieninger, Hydro Marine, Inc.

The Hydrographic Society of America has announced the Call for Papers for:

U.S. HYDROGRAPHIC
CONFERENCE '99
MOBILE, ALABAMA
April 26-29, 1999

U.S. HYDRO '99 is a continuation of the series of hydrographic conferences, workshops and exhibitions that alternate between the U.S.A. and Canada. Each of the three meeting days will have a general theme: Inshore Hydrography, Offshore Hydrography and Data Presentation, respectively.

We invite you to submit a one-page abstract describing new concepts, developments and applications of hydrography. The papers will be presented over the three days of the meetings. The papers must be original and should not have been published or offered for publication elsewhere. Papers are to be orally presented. English will be the official language.

Please ensure that the abstract summarizes the objectives, methodology, results and conclusions of your work. At the top of the page, list all

authors and their affiliations and provide a point of contact, with mailing address, phone, telefax, and e-mail information.

The abstract should be submitted by e-mail (text only, no attachments) to the Program Chair, Karl Wm. Kieninger by July 1, 1998. Authors will be notified of the receipt of the abstract. Notification of acceptance will be sent by October 1, 1998. Final manuscripts are due by February 1, 1999.

Karl Wm. Kieninger, Hydro, Marine Inc.: e-mail:

Hydromarine@compuserve.com

Phone: (201) 295-1443.

Additional Information on U.S. HYDRO '99 and The Hydrographic Society can be found on our web page: <http://www.USAhydrosoc.org> ✨



from "Naval Meteorology and Oceanography Command News,"
Cathy L. Willis, Ed.

Nature may have pointed the way to an ideal shark repellent. A small fish called the Moses sole thrives in the Gulf of Aqaba. The fish defends itself by secreting a whitish substance called pardaxin that is deadly to other sea life. Just one part of pardaxin in 5000 parts of sea water is sufficient to kill many species.

Researchers testing the poison in a tank with sharks found that the sharks would initially attack the sole but would quickly retreat. Pardaxin enters the shark's bloodstream causing paralysis. It could be useful as a shark repellent except that there are not enough Moses soles to produce the poison in quantity. Furthermore, its chemical structure is highly complex, and therefore difficult to reproduce in a laboratory.

Marine scientists have found that pardaxin reduces the surface tension of water much like household detergents do. Their studies further show that some of these detergents are nearly as effective in scaring away sharks. The studies continue.

LONG SHOT: This modern gambling term has a nautical origin. Because ships' guns in early days were very inaccurate except at close quarters, it was only a lucky shot that hit the mark at any great distance.

MESSMATES: Those eating together, comrades. "Messmate before shipmate, shipmate before stranger, stranger before a dog."

GROG: This term for watered rum is an example of sailors' aptitude for nicknames. Admiral Vernon, while commander-in-chief, West Indies, in 1740, introduced the watering of rum. He always wore a cloak of rough material called "grogam" (a corruption of grosgrain), and his nickname of "Old Grog" was later given to this beverage. ✨

Status of NOAA's hydrographic survey contracting efforts

by Brian Greenawalt, NOAA, Coast Survey, Silver Spring, Md.

NOAA has seven procurement actions for hydrographic surveying and related supporting services in the 1998 pipeline. Each of these actions is being conducted in accordance with Part 36.6 (Architect-Engineering Services) of the Federal Acquisition Regulations (FAR).

The negotiations for three two-year, indefinite delivery contracts for projects in the Gulf of Mexico are

(See **Status**, page 6)

Status (from page 5)

nearing completion. The contractors, C&C Technologies, Inc.; John E. Chance and Associates, Inc.; and Science Applications International Corporation, Inc. will provide bottom coverage using shallow water multi-beam and side scan sonar systems. Each work order will encompass an area of about 65 square nautical miles in the anchorages, safety fairways, and approaches to Cameron, Sabine, and Galveston.

NOAA selected Terra Surveys, LLC., to perform a small-business set-aside contract in Cook Inlet, Alaska. Negotiations for this two-year indefinite delivery contract are underway. The contract is scheduled for award in March with field work commencing in April.

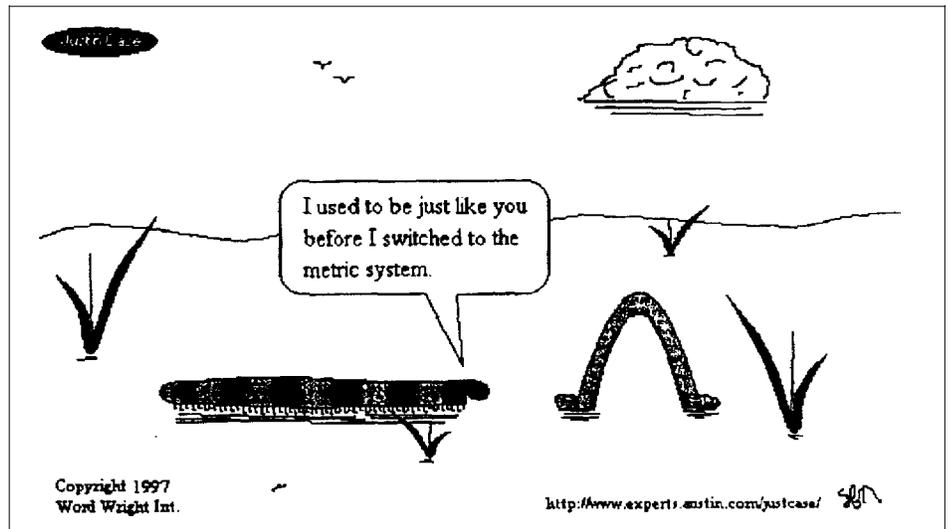
NOAA announced three other contracting opportunities for fiscal year 1998: Cook Inlet-Prince William Sound-Southeast Alaska, California, and Southeastern United States coast. The synopses for these actions appeared in the Commerce Business Daily On-line:

<http://cbdnet.access.gpo.gov/> on Dec. 16, 1997; Dec. 24, 1997; and Jan. 5, 1998; respectively. The closing dates for responding to these announcements are Feb. 16, Feb. 23, and March 2, 1998, respectively. For more information, contact Mr. Gregory N. Smith at (301) 713-0823 or by e-mail at:

Gregory.N.Smith@noaa.gov. ☼

NOTICE!

THSOA's web site, www.USAhydrosoc.org is continually being improved. Try it! ☼



Corporate Members listing on the Internet

by Manager Michael Boreham, *The Hydrographic Society*

The Society has been developing a presence on the Internet and intends to include some details of Corporate Members, together with links to their own sites where applicable. Each entry will comprise the following information:

- I. Organization's name, address, e-mail address, telephone and fax numbers taken from the Society's current listing.
- II. Brief details of the type of business, together with the range of activities indicating the percentage business for each activity (maximum 6).

Details, including the address of your own home page, should be supplied on IBM PC 3 ½-in floppy disk to the international headquarters at:

The Hydrographic Society
University of East London
Longbridge Road
Dagenham

Essex RM8 2AS
UK

or by e-mail to:

CMD@hydrosoc.demon.co.uk

Please Note:

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VERY PUNNY!

source unknown, forwarded by e-mail

A frog went to a bank to get a loan. The loan officer said, "We can't lend you any money; you're a FROG!" But the frog told him, "I have collateral!"



"Let's see," replied the loan officer. So the frog opened his hand and showed the loan

(See **Punny**, page 7)

Punny (from page 6)

officer a valuable Hummel figurine. The loan officer said, "Well, I'll have to check with our senior loan officer. Wait here."

He came back and introduced the two, saying, "This is our senior loan officer Patty Black. Patty, this frog wants a loan and he has collateral." The senior loan officer asked, "What collateral?"

The loan officer said, "It's a knick-knack, Patty Black, give the frog a loan!" ✪

Hydrographic surveying short course scheduled

by Jerry Mills, NOAA, Coast Survey, Silver Spring, Md.

As announced in the last issue of *The Seahorse*, a short course on Hydrographic Surveying for Nautical Charting will be offered by Old Dominion University's Center of Coastal Physical Oceanography on March 30-April 3, 1998, in Seattle, Washington. This course was developed in response to the federal government's increased emphasis on contracting for hydrographic surveys to support nautical charting and the economic importance of such surveys in maximizing the draft of transiting vessels.

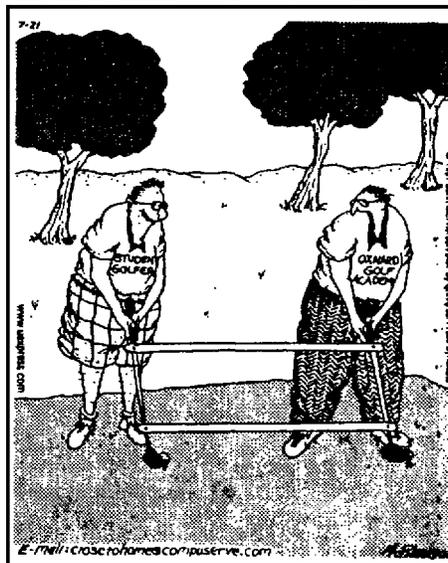
The five-day course will focus on the equipment and procedures necessary to satisfy the more rigorous survey specifications that are required for nautical chart application. Topics will include horizontal and vertical datums, multibeam and side scan sonar operations, corrections to echo soundings with a special emphasis on sound velocity corrections and survey vessel dynamics, tide and water-level measurements and hydrographic survey contract issues, including specifications and deliverables.

The course will be offered in cooperation with NOAA's Office of

Coast Survey which will provide several instructors.

Last year's course, held in Norfolk, Virginia, was attended by 24 students from the private and public sectors. For more information on the technical aspects of the course, contact Commander Kathy Timmons NOAA, at (206) 526-6835 or via e-mail at: ktimmons@pachydro.noaa.gov. For more information on course registration, contact Dr. Larry Atkinson, ODU, at: (757) 683-4926 or via e-mail at: atkinson@ccpo.odu.edu. ✪

CLOSE TO HOME JOHN MCPHERSON



"OK, Howard. We'll play two more rounds using the training clubs, and, if all goes well, you'll play your first solo round on Wednesday."

NEWS FROM THE CHAPTERS

HOUSTON



Jim Cain writes: The Houston Chapter of THSOA was quite active in the last quarter of 1997. The quarter opened with Randall Kocurek PC, who addressed the Oct. 14 meeting with a very interesting presentation on "The Importance of the Jones Act to Offshore Projects." This is an area that causes many headaches in

our industry, and it was very enlightening to get a different perspective on the Jones Act. Thanks to Michael Barnes of Racal NCS for organizing this lecture and for sponsoring a round for the 35 participants.

In November, the Houston Chapter was fortunate enough to be chosen to host the Annual General Meeting (AGM) of The Hydrographic Society of America. The meeting was held on Tuesday night, Nov. 11, 1997, and featured President Pat Sanders, THSOA, who addressed the group of more than sixty members and guests on "Future Trends in Hydrography."

This presentation was followed by the AGM, during which everyone was brought up to date on what THSOA has been doing over the past year as well as future plans. This was a good opportunity to share ideas. Thanks to THSOA, the Houston Chapter and Coastal Oceanographics for sponsoring rounds of refreshments at the meeting.

The big event of the year for the Houston Chapter was the Year End Party at Sierra West on Dec. 5. The charge per person was only \$20, with each participant receiving an average of more than \$70 in value in food, beverages and door prizes. This was possible because of the sixteen corporate sponsors who contributed more than \$3,000 toward the event. These sponsors were: John E. Chance and Associates (\$500), Racal-NCS (\$500), Gahagan & Bryant Assoc. (\$300), Western Geophysical Company (\$300), Schlumberger Geco Prakla (\$250), Benco (60 Armagnacs), Quest (\$200), DigiCOURSE (\$200), Energy Innovations (\$200), MDL Technologies (\$100), Intec Engineering (\$100), Deutsch ECD (\$100), Trimble Navigation (\$100), and door prizes by Ashstead and TSS.

A special dinner gift certificate to the Sierra Grill was given to Colin

(See **Chapters**, page 8)

Chapters (from page 7)

Weeks who was the only Houston Chapter founding member in attendance. The grand prize was a \$250 gift certificate at CompUSA, won by Andy Holroyd of Ashtead Technology. Many thanks to Kim Fairweather and Jim Cain who organized this outstanding event. This spacious and comfortable venue easily held our sixty revelers and was so popular that it has already been booked for the 1998 Year End Party, to be held on Friday, Dec. 4, 1998.

The Houston Chapter Executive Committee for 1998 was announced as the only real "business" of the event.

They are:

Dave Etherington-Brown — Chairman
Chris Echols — Vice-Chairman

Meredith Rhodes — Treasurer

Rob Roman, Jr. — Communications Secretary

Kim Fairweather — Membership Secretary & Student Liaison

Richard Seeger — Event Coordinator

Jim Cain of the Houston Chapter continues as a trustee of The Hydrographic Society of America.

Appreciation was also extended to Michael Barnes who chaired our 1997 meetings and provided entertainment on Tuesday evenings by stepping in as speaker at the last minute, and to Larry Buchanen who arranged the remaining speakers and provided a well-deserved break for Michael.

Thus ended 1997 in the Houston THSOA Chapter. The first meeting of 1998 was held on Jan. 13 and was the chapter's Annual General Meeting. There was a good exchange of ideas on how the Houston chapter should move ahead in 1998.

☆☆☆☆

No reports were received from the other chapters. ✨

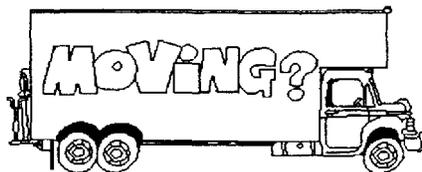
Hunting season

from the Internet

A truck driver hauling a tractor-trailer load of computers stops for a beer. As he approaches the bar he sees a big sign on the door, saying: "NERDS NOT ALLOWED — ENTER AT YOUR OWN RISK"

He goes in and sits down. The bartender comes over to him, sniffs, says he smells kind of nerdy, asks him what he does for a living. The truck driver says he drives a truck, and the smell is just from the computers he is hauling. The bartender says, "OK, truck drivers are not nerds," and serves him a beer.

As he is sipping his beer, a skinny guy walks in with tape around his glasses, a pocket protector with twelve kinds of pens and pencils stashed in it, and a belt at least a foot too long. The bartender, without saying a word, pulls out a shotgun and blows the guy away. The truck driver asks him why he did that.



The bartender said, "Not to worry. The nerds are overpopulating Silicon Valley, and are in season now. You don't even need a license," he said.

So the truck driver finishes his beer, gets back in his truck, and heads back onto the freeway. Suddenly he veers to avoid an accident, and the load shifts. The back door breaks open and computers spill out all over the freeway. He jumps out and sees a crowd already forming, grabbing up the computers. They are all engineers, accountants and programmers wearing the nerdiest clothes he has ever seen. He can't let them steal his whole load.

So remembering what happened in the bar, he pulls out his gun and starts blasting away, felling several of them instantly.

A highway patrol officer comes zooming up and jumps out of the car screaming at him to stop. The truck driver said, "What's wrong? I thought nerds were in season."

"Well, sure," said the patrolman, "But you can't bait 'em!" ✨

Communicating?

Not!

from "Connecticut Square and Compasses," Carl Ek, Editor

The following conversation is part of FBI folklore. It was quoted by R. James Woolsey, director of the CIA, at a conference on global organized crime. We offer it as an example of how important it is to consider another's viewpoint when trying to communicate.

"Just in case you think the FBI is not on the job, I have received a true (phone) intercept that the FBI made of itself. FBI agents conducted a raid of a San Diego psychiatric hospital that was under investigation for medical insurance fraud. After hours of reviewing thousands of medical records, the dozens of agents worked up quite an appetite. The agent in charge called a nearby pizza parlor to order for his colleagues."

Agent: "I would like to order 19 large pizzas and 67 cans of soda."

Pizza man: "And where would you like them delivered?"

Agent: "We're over at the psychiatric hospital."

(See **Not!**, page 9)

(from ideas unlimited, with permission)

A Few Good Woman



March is Women's History Month. While we celebrate those pioneers who helped create our present, this month is also an opportunity to recognize those women who are designing our future. Who are the women of today that our children and grandchildren will be reading about tomorrow? Here are just a few of the likely candidates.



Can you match the women with their achievements?

1. In 1993, she became only the eighth woman and the first African-American woman to win the Nobel Prize for Literature. Her novels include *Beloved* and *Tar-Baby*.
2. She is the first female U.S. attorney general and is one of the most respected and popular members of Clinton's Cabinet.
3. She has used her popularity as one of Hollywood's most glamorous leading ladies to become one of the most visible and dedicated leaders in the fight against AIDS.
4. She is the first Asian-American broadcast journalist to permanently co-anchor a network's evening news program.
5. A long-time activist for Native American rights, she is the first woman to be elected Chief of the Cherokee nation, governing 120,000 people and managing a \$70 million annual budget.
6. With a voice that has been compared to those of Judy Garland and Patsy Cline, she has overcome homophobia and sexism to become a critical and popular music sensation, with 31 Grammy nominations already to her credit.
7. She penned the first Inaugural poem since Robert Frost in 1960, and is one of America's most eloquent poets.
8. After her last two films grossed over half a billion dollars, this young actress has become one of the most powerful women in Hollywood, while juggling a high-profile marriage, two children (with a third on the way), and an exercise program that resulted in a million dollar proposal from Robert Redford.
9. Following in the footsteps of Eleanor Roosevelt, she has transformed her government position from one of tradition and obscurity to one of power and respect.
10. She is the first woman to own and produce her own talk show and is one of the most influential women in television today.

- a. Maya Angelou
- b. Connie Chung
- c. Oprah Winfrey
- d. Wilma Mankiller
- e. Demi Moore
- f. Toni Morrison
- g. Hillary Rodham Clinton
- h. U. Iang
- i. Elizabeth Taylor
- j. Janet Reno

Answers: 1. f, 2. j, 3. i,
4. b, 5. d, 6. h, 7. a, 8. e,
9. g, 10. c.

Membership Application



**The Hydrographic Society
of America
and the
U.S. Branch of The Hydrographic
Society**

Membership in The Hydrographic Society is open to any individual or organization with an interest in surveying afloat. No formal qualifications are required.

The Hydrographic Society of America (THSOA) serves as the focal point for activities in America. Members of THSOA receive *The Seahorse* newsletter, are eligible for membership in local chapters, receive a \$15 discount on subscription to *Hydro International* magazine and receive a discount on registration at THSOA sponsored events. Local chapters have been formed in Houston, Tx. and Bay St. Louis, Miss. THSOA also provides administrative support to the U.S. Branch of The Hydrographic Society.

The Hydrographic Society (THS) was founded in London, England, in 1972. For those members interested in the international aspects of the profession, the U.S. Branch of THS provides a convenient way to pay dues in U.S. dollars. Members of THS receive quarterly copies of *The Hydrographic Journal* and a discount on registration at sponsored international events.

THSOA Corporate Members receive *The Seahorse*, a free hotlink or company description on THSOA's website (www.USAhydrosoc.org) and free posting of recruitment notices in *The Seahorse*. THS Corporate Members receive two copies of *The Hydrographic Journal* and a discount on *Journal* advertising.

The dues structure allows Individual, Retired, Student and Corporate Members to opt for THSOA alone or both THSOA and THS. There is no THSOA-only Associate Corporate rate. Individual and Retired memberships begin on entry and are renewed on April 1. Corporate memberships are renewed on January 1. Student THS memberships begin on April 1, while THSOA Student memberships are totally flexible to accommodate the school calendar. In all cases, dues are not prorated. However, members joining in the middle of the year receive all back issues of the publications for that year.

NAME: Title (Mr, Ms, CAPT, Dr, etc.)			First	M.I.	Last
ADDRESS (for mailing and correspondence)					
CITY		STATE		ZIP	
EMPLOYER					
TEL:		FAX:			
e-mail address:					
YEAR (From which membership is to be effective):					199
<input type="checkbox"/> Check box if name may be included on mailing list provided to Corporate Members					

ANNUAL DUES

(Check appropriate box)

- | | | |
|---|--------------------------------------|--|
| INDIVIDUAL (Houston Chapter add \$10 for local dues) | <input type="checkbox"/> THSOA \$15 | <input type="checkbox"/> THSOA/THS \$75 |
| RETIRED and no longer employed in the profession of sea surveying | <input type="checkbox"/> THSOA \$10 | <input type="checkbox"/> THSOA/THS \$37.50 |
| STUDENT full-time undergraduate | <input type="checkbox"/> THSOA \$5 | <input type="checkbox"/> THSOA/THS \$20 |
| CORPORATE | <input type="checkbox"/> THSOA \$100 | <input type="checkbox"/> THSOA/THS \$385 |
| ASSOCIATE CORPORATE available to a different location or unit of a parent Corporate Member | | <input type="checkbox"/> THSOA/THS \$205 |

If Student, name of institution _____

If Associate Corporate, name of parent _____

STATEMENT. I wish to make application for membership in The Hydrographic Society. I agree to abide by the Articles of Association and to further its aims and objectives. I declare that the answers to the above are accurate to the best of my knowledge and belief. I agree that the decision of The Hydrographic Society Executive in regard to this application is final.

SIGNATURE _____ **DATE** _____

Please return with payment to:
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P.O. Box 732
Rockville, MD 20848-0732

From the Editor's Desk



by Dale Westbrook

I can't believe it! No one wrote, called or e-mailed me about Goldbrick's "On the Next!" article in the Fall issue. No one agreed that THS is in good financial shape, but no one disagreed either. Remember this is YOUR newsletter. It is written for YOU, and it should be written by YOU. I'm just the editor, not the reporter.

Please don't let Jerry Mills and Karl Kieninger carry the load of having to fill each issue. The THSOA president (of all people) should write

an editorial every time. If there are goals or objectives of this Society, how do we know what they are? If we have done anything worthwhile, how do we know? If you want us to do something, how can we be motivated? Use the media. Use this newsletter.

Rank and file members should tell us when they get awards or are promoted. They could also tell us about interesting tasks they have completed, or interesting places that they've seen. There are so many possibilities. We have three THSOA chapters and we have only heard from one of them lately. Are the others doing anything? Why not?

Perhaps all anyone out there is interested in nowadays is the Internet. Maybe they would be happy if that were the only way they could read about their Society. Does anyone want to comment about that? Are newsletters obsolete? Can web sites and newsletters co-exist?

I just received a note in the mail about a meeting to be held in Roslyn, Va., (Washington, D.C. area) on Feb. 19 to facilitate the rebirth of a local chapter in this area. It's about time. The only problem is that an \$18 luncheon is not exactly pocket change for a lot of people. Many members who may be interested in forming a local chapter, and who are young enough to have the energy to do so, may be turned off by the large tab. The planners must consider this when trying to set up a chapter.

I don't propose having the meetings supported by private industry to the extent that Houston's meetings are (particularly their fantastic Year End Party — see page 7). In the Washington area, with so many Federal government employees, such blatant financial support by private industry would be taboo. It's a good thing most of the Houston THSOA members are in the private sector. ✧



**The Hydrographic Society
of America**
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