

The Lazarette Gazette

NEWS FROM
The University of Texas at Austin
MARINE SCIENCE INSTITUTE
Port Aransas, Texas 78373-1267

Vol. 3, Issue 7, 29 April 1994



In this issue of *Lazarette Gazette* —

Terry Whitledge: **Oceanography Day/CC Bay National Estuary Program** cover
Paul Montagna: **Update of the Lasergraphics Film Recorder** 2
Ruth Grundy: **Many new titles in MSI library** 10
Regular sections: **director's report** — p. 1, **personnel** — p. 2, **facilities & equipment** — p. 3,
marine education services — p. 4, **attaboys** — p. 5, **cruise reports & boat operations** — p. 6,
trip reports & travel — p. 7, **barnacle bill** — p. 7, **tony's tidings** — p. 9, **library** — p. 10, **safety**
— p. 15, **letters to the editor** — p. 15, **editor's note** — p. 15

Director's Report



Oceanography Day — Our Oceanography Day for Boy Scouts was again a tremendous success. It was not just a fun event for these Scouts; they did have fun, but for most it was an opportunity to learn about Oceanography which was taken very seriously, and in which they invested much hard work. I wish to extend my thanks to all those at MSI who gave up their Saturday to provide this program. Several persons have suggested that we offer a similar program for Girl Scouts. Since the Oceanography Day program is built around the Boy Scout *Oceanography Merit Badge*, the program is not directly transferable to Girl Scouts. However, there is no doubt that some kind of activity could be organized which would be suitable. Oceanography Day is to a large extent based on the efforts of volunteers. We need volunteers to come forward to design and organize (and raise the necessary financing) a program for girls.

Corpus Christi Bay National Estuary Program — We are expecting about 65 participants for a meeting of the Scientific and Technical Advisory Committee of the Corpus Christi Bay National Estuary Program at the MSI Visitor Center on Thursday, May 5. This committee has several MSI staff members, as well as scientists from other institutions, working on ascertaining the status and trends of living resources, estuarine habitat, freshwater inflows, estuarine circulation, bay debris and socioeconomic issues in the Corpus Christi Bay area. Subcommittees of specialists are developing scopes of work which will be funded for the coming year. The meetings are open for attendance by anyone who is interested.

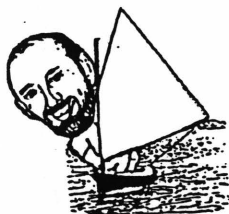
—T. E. Whittedge

Computer Corner



Update of the Lasergraphics Film Recorder (LFR)— Two software packages have been added to the LFR: Sigma Plot for Windows and Microsoft Powerpoint. Sigmaplot has long been the standard for scientific graphics. The Windows version is great and exporting DOS files to Windows is easy. Powerpoint is Microsoft's presentation graphics package. It was donated by Scott Holt. Thank you Scott!

Use during the first two months has been quite high. In February 1994, 12 users made 168 slides. In March 1994, 17 users made 373 slides. We have already retired about 14% of our debt. At this rate, we should be able to reduce the charge at the end of one year.



Non-UT colleagues have inquired about using the LFR. Anyone can use the LFR. If the person doesn't have an account number at UTMSI, then they can just pay the librarian in cash, at a rate of \$2/slide. Ruth Grundy has graciously agreed to handle cash transactions for us.

—Paul Montagna

Personnel

The five members of MSI's professional boat staff are featured on the masthead of the *Lazarette Gazette* this issue. Senior Captain Don Gibson is operating the controls with Captain Hayden Abel giving a tow. Captain John Turany peers from the top of the sail, Mate Mark McGarity is in the middle, and Captain Noe Cantu joins Hayden in the water. Senior Captain Gibson is in charge of all boat operations at MSI as well as Captain of the *R/V LONGHORN*. Captains Abel and Cantu complete the crew of the *R/V LONGHORN*. Captain Turany operates the *R/V KATY*. Mate McGarity looks after the small boats. Senior Captain Gibson has been on the *R/V LONGHORN* since 1971. Don has operated boats all his adult life. He received the University's *excellence award* in 1982. Don's wife, Faye, teaches third grade in Port Aransas. They have three children and are grandparents. Noe Cantu has been aboard the *R/V LONGHORN* as mate since 1978. Noe married a former MSI student, Andrea, who is now a science teacher at the Port Aransas Middle School. The Cantu's have two young sailors, James (second grade) and Sean (fifth grade). Hayden Abel began work as a science technician with MSI in the old BLM program working for Dr. Johnnie Holland back in 1976 and later changed over to Mate aboard the *R/V LONGHORN*. Hayden is married to a former MSI employee and now TAMUCC Graduate Student, Liz. They also have two young sailors, Kelsey (recent addition) and Brince (Fourth Grade). John Turany has been Captain of the *R/V KATY* since it was built

for MSI (1980). Before that John ran one of the Port Aransas ferry boats and before that was in the Navy. John and his wife, Judy, have three grown children and are also grandparents. John received the University's *excellence award* in 1990. The newest member of the boat staff is Mark McGarity; Mark was a maintenance worker with MSI before changing over to the boat crew to take care of all the small boats. Mark was recently married to Cindi and also recently purchased a J—30 sailboat which he and Cindi enjoy sailing when Mark is not running a small boat for MSI.

P.A.I.S.D. — FIFTH SIX WEEKS HONOR ROLLS

MSI Employees Proud Parents of—

- **H.G. OLSEN ELEMENTARY A HONOR ROLL**
second grade: **Jennifer Seguin**
third grade: **Lauren Kalke**
fourth grade: **Nikki Buskey, Lindsay Moore, Karli Dunton, JoAnna Jackson, Alex Seguin, Stephanie Tinnin**
fifth grade: **Sarah Seguin**
- **H.G. OLSEN ELEMENTARY A/B HONOR ROLL**
second grade: **Dani Buskey, James Cantu, Jack Montagna**
fourth grade: **Tess Montagna, Brince Abel, Ashley Harris**
fifth grade: **Sean Cantu**
- **BRUNDRETT MIDDLE SCHOOL A HONOR ROLL**
sixth grade: **Nathan Dunton**
- **BRUNDRETT MIDDLE SCHOOL A/B HONOR ROLL**
sixth grade: **Daniel Allen, Chris Kalke, Kate Montagna, Patricia Tinnin**
seventh grade: **Daniel Jackson**
- **HIGH SCHOOL A HONOR ROLL**
eleventh grade: **Jill Thompson**

Facilities & Equipment

Projects report — Several MSI facilities projects have been completed in the last month or are in the final phases. The new pier and pier laboratory are complete and now in use. The Visitors Center work, which included elimination of the rusty metal accent strips, painting, and other restoration work, is complete. Work on the North wing of the Administration building, including major renovation of the heating and air conditioning system, new fume hoods, and remodeling, is in the final stages. New roofs were installed on the Cafeteria, Dorm A, Dorm B, and Dorm C.

Final contractual arrangements are pending with Bohl Brothers Construction Co., Inc. for removal of the remnants of the old pier. Bids for this work ranged from the low bid submitted by Bohl of \$55,000 to a high of \$165,000. Four bids were received.

Plans and estimates are being prepared for two new projects. One project involves extensive renovation of the MSI Boathouse. The Boathouse was constructed in 1960 with creosote timber pilings. Although attempts were made at one time to protect the pilings with fiberglass skirts, worms have finally caused damage from 75% to even 100% in the case of one piling (eaten all the way through). A second project will provide a paved road, small parking area, and sidewalk to the new Pier and Pier/Laboratory.

Marine Education Services

350 BOY SCOUTS ATTEND OCEANOGRAPHY DAY

The 1994 *Oceanography Day*, held on Saturday, April 23, was a huge success. 350 Boy Scouts from over 100 different Scout Troops, along with about 150 adult leaders and parents learned about Oceanography and the work of the Marine Science Institute. Before receiving permission to attend, each Boy Scout had to complete in writing the first six requirements for the Scout Oceanography Merit Badge. In doing so they had the opportunity to learn much about Oceanography before arrival at MSI besides clearly demonstrating their interest and commitment. In some cases, Boy Scouts would include a letter to the Oceanography Day Chairman along with their written requirements, one of these letters follows:

My name is Travis Law. I am 13 years old and I'm a Life Scout. I'm going to be getting my Eagle in about a month—I just have to finish my project.....At school I am an honors student and on the academic excellence team. I was selected to be a science teacher's aid, my science fair project came in fourth place, and I was selected by my peers to be a peer mediator.....I read an article about this trip in the Scouting magazine and I also saw another article in our local scouting newspaper.....I already have 36 merit badges including all of the requireds, and I love to learn all about new things and interesting facts. Sometimes my friends get tired of listening to me talk about all the things I am learning, and a lot of times I make my parents laugh, like when I tell them facts like how many times a bird poops in a minute. I can't wait to go on this trip and to have new things to tell everyone. I know that it will be something I will always remember!

Many Scouts began arriving Friday evening and camped out on the MSI grounds both Friday and Saturday nights. During the day six separate activities were underway simultaneously each hour, for six hours of program plus lunch, with each boy following a special schedule for a group of 10 or 11 who stayed together during the day. The *R/V LONGHORN* and the *R/V KATY* each made six trips so that every boy got to go to sea aboard a research vessel. A plankton laboratory, supervised by Rick Kalke and assisted by Chris Martin, Robert Burgess, and Jay Peterson, was held in the new Pier Laboratory Building. Just outside the building, John Shaw and Wyatt Harris taught a plankton net building session. Lectures were provided in the Auditorium by Ken Dunton, Tony Amos, Paul Montagna, Ed Buskey, Rick Tinnin, and Tom Hellier. Terry Whitledge, Ellery Ingall, Tony Amos, Jonathon Pinter, Jennifer Dicocco, Rini Budiantara, and Ed Buskey took turns in providing both an Ocean Research Videos session and an Oceanographic Equipment and Fish Laboratory session. Toni Martinez, with help from Dolores Villarreal and the Custodial Crew, provided lunch (sloppy joes) in less than an hour for the group of over 500 persons. All boys received a special *Oceanography Day* patch. Saturday night a campfire program, organized by Dr. John Baucum of Portland, was held on the ship channel.

John Thompson is *Oceanography Day* Chairman and will now be receiving the 500 word reports each Scout must write in order to complete his merit badge. During the crucial two weeks prior to *Oceanography Day*, John was out of action most of the time due to back surgery. Terry Whitledge and Rick Tinnin stepped in and planned and organized the program. Linda Yates, Kathy Quade, and JoAnn Page helped with many of the details, and Lynn Amos assisted with registration. Patty Baker did a tremendous job of preparing all the paperwork and organizing registration. Special donations were received from Advisory Council Members and others to finance *Oceanography Day*. Ms. Edith McAllister chaired the fund raising activities.

—John Thompson

Attaboys

■ Words alone cannot express the deep appreciation felt by the Matagorda County Navigation District No. One, the Texas Marine Advisory Service and the Texas Department of Commerce as co-hosts of the strategic planning conference designed to deal with the future of the Palacios Marine Education Center. The kind contribution you and The University of Texas Marine Science Institute provided helped produce one of the smoothest and most satisfying planning efforts I have ever been associated with. This grassroots effort proved, without a doubt, the sincere desire of the county's leadership to see the P.M.E.C. reach its full potential as a learning facility for statewide audiences. You can indeed be proud of the important part you played in this development process. It is hoped your personal enthusiasm and commitment to reaching this position of education, social, economic, and environmental prominence will carry forth as these plans are fleshed out and actions implemented. Please understand that you are still needed as an integral part of the network.

(To Rick Tinnin from William R. Younger, County Extension Agent-Marine, Matagorda County)

■ On behalf of Troop 405, I would like to thank you for your efforts in providing this excellent activity for scouts. Our 14 scouts, as well as the scout from Pennsylvania who attended with us, certainly enjoyed the day spent at the Marine Science Institute. This was the third time that our troop has attended *Oceanography Day*. As well as offering the scouts the opportunity to complete the merit badge, it certainly gives them a better understanding of our environment. I hope you will let the other members of the *Oceanography Day* staff know how much we appreciate the time spent in providing this great activity.

(To John Thompson from Calvin H. Gray, Scoutmaster, Georgetown, Texas)

■ ...My memories and experiences at *Oceanography Day* will last a lifetime. I would recommend it to any scout and would welcome an opportunity to visit again. I appreciate the courtesy and helpfulness on the part of all the adults who volunteered and made this day possible...I really enjoyed the day and thank you and your volunteers for making this possible. I also would like to thank the University for making this day free of charge and filled with all the activities especially the boat.

(*Oceanography Day* Report—Jonathan Ishee, Spring, Texas)

■ ...All in all, *Oceanography Day* was a lot of fun. It would be a lot of fun to work on one of the research vessels or in lab like the plankton lab. Thanks alot for a good time.

(*Oceanography Day* Report—Ryan Monsivias, Austin, Texas)

■ ...The staff was hospitable and very helpful. One could easily see the zest the instructors have for their jobs. They love what they do. Biology is such a diverse and complex field. I am glad we had the opportunity to experience a tiny facet of being an oceanographer.

(*Oceanography Day* Report—Kregg Cuellar, Houston, Texas)

■ ...This weekend was fun and it was interesting to learn some new stuff. Thank you for putting on this merit badge.

(*Oceanography Day* Report—Alan Rivesman, Houston, Texas)

■ ...Overall, I learned something about oceanography. I found out what an important part it plays in my life. I am thankful to have people who appreciate scouting, and who give up a whole Saturday to teach nearly 400 people about something truly important.
(Oceanography Day Report—Chris Guerra, Victoria, Texas)

■ ...I would like to close this merit badge class with a special thank you to you, The University of Texas Marine Science Institute, and all the people who volunteered enabling us to have a unique learning experience. One that I personally enjoyed and appreciated, and would not have had the opportunity to experience without their giving of their time, experience, and patience. Thank you again.
(Oceanography Day Report—Jeremy Davis, Aransas Pass, Texas)

■ ...I enjoyed working on the requirements for this merit badge at home and had a very good time at the research station in Port Aransas. I want to thank the people who helped us there, and I know I learned a lot.
(Oceanography Day Report—Brad Breeden, Victoria, Texas)

■ ...I have been interested in Marine Biology for a number of years when all of a sudden a course was offered for the merit badge, where we really got to do some exciting stuff; like making plankton nets out of hose, and going on an actual, real life, sea going research vessel....It was the best way to earn a merit badge that I have ever experienced. Thank you for letting me go to Oceanography Day in Port Aransas.
(Oceanography Day Report—Paul Switzer, Houston, Texas)

Cruise Reports & Boat Operations

Recommended carrying capacities for small boats —

The following list was prepared in response to a request received for a list of carrying capacities for the MSI small boat fleet. This information is especially useful for planning summer class field work.

ETTA ARMSTRONG — seven persons including operator.

CAESER KLEBERG — seven persons including operator.

JEFFERSON — six persons including operator.

BIG WHALER — four persons including operator.

JON BOAT — four persons including operator.

JET-AIR — four persons including operator.

ROUGHNECK — four persons including operator.

These are general recommendations and consideration should be given as to the amount and weight of equipment carried in the boat during the trip. The capacity of the **ARMSTRONG** can be increased to 11 when used as a water taxi (lighthouse run) and the **KLEBERG** and **SONNY MAC** may be increased to 8 when used strictly as a water taxi.

—Don Gibson

Trip Reports & Travel

Travel ending between March 26 and April 29

✈ *Rick Tinnin*, March 25—31, Monterey and Los Angeles, California, attend National Marine Educators Association Executive Board Meeting at Monterey Bay Aquarium and present paper, *Beaks and feet: adaptations and hands-on activities using coastal birds* at the National Science Teachers Association Annual Conference.

✈ *Terry Whitledge*, March 28, Houston, present research activity report for the Marine Science Institute to the Marine Science/Maritime Research Review Panel for Texas Higher Education Coordinating Board.

✈ *Don Gibson*, March 29—30, Houston, deliver life rafts from *R/V LONGHORN* and *R/V KATY* for annual inspections.

✈ *Don Gibson*, April 3—10, Dallas, to attend final week of three week training course at Outboard Marine Corporation for repair of OMC motors.

✈ *Rick Kalke*, April 5, Point Comfort, to participate in freshwater inflow study in Lavaca/Matagorda & San Antonio Bays.

✈ *Ken Dunton*, April 9—12, San Diego, California, attend board of directors meeting of the American Academy of Underwater Scientists.

✈ *Curtis Suttle*, April 11—12, San Marcos, present seminar, *Viruses in marine systems*.

✈ *Rick Tinnin*, April 15—18, South Padre Island, conduct teacher workshop, *Marshes, Mangroves, and Mudflats*, and visit with potential marine activities resource elementary schools in San Benito and Brownsville.

✈ *Ron Benner*, April 18—19, College Station, present seminar, *The composition and reactivity of dissolved organic matter in the ocean*.

✈ *Scott Holt*, April 21—24, Lewes, Delaware, serve on National Sea Grant proposal review panel.

✈ *Ron Benner, Terry Whitledge*, April 25—28, Baton Rouge, Louisiana, to attend Nutrient Enhanced Coastal Ocean Productivity meeting for principal investigators.

Adventures of Barnacle Bill

One of the most exciting experiences of a sailor's life is digging into history for the truth. I've been studying and gathering information for quite some time and have come across some very interesting writings. These I share with you.



History of Sailing Vessels

Smith Stone Sea School (later changed to Institute)

Prof. John Smith Stone Ph.D. (Pre Historic Doctor)

The first boat was just an old log found washed up on the lower banks of the *Sippy River*, later changed to *Miss Sippy* for the run away daughter of Rodney Sippy of Chicago, but later changed again when she was found in Southern Alabama. Larry La Bough lived in a little fishing village called *Leans*, later changed to *Orleans* when Orville married the Lean's girl, which was later changed to *New Orleans* for their first born. These events took place around 84 MYBC (many years before Christ). Larry was a shrimper (probably the first) and acquainted with the sea. Larry was also a dreamer and tinkered with many ideas—the most important being radar. Two bats were connected in series to a rotating drum with a fish bone which vibrated when the bats were excited. This device was later modified by Ishmael Boudrough Miller (I.B.M.). Larry worked on the other side of Leans Bay and swam across each day, coming in late soaked from head to toe. A hollow log lay close by; climbing inside the log, Larry eased into the current. Later this became the submarine. Larry floated to work for a while inside his new found transportation. His wife Martha (not related to the Washingtons) suggested Larry ride on the log instead of inside. This was better but the single log rolled a lot and Larry spent a great deal of time under water. Larry solved this problem by nailing two logs together. But when he stood up the wind would blow him off. So Larry installed a high pole, called a *hold on pole*, later renamed *mast*. The name *boat* came from the place where Larry worked. They would stand by the water as Larry approached calling out, *La Bough! La Bough!* While hanging the morning wash, Martha ran out of space for bed linens, and hung the last bed sheet to the *hold on pole* of Larry's boat. A sudden gust of wind came and away went Martha, screaming profanities, into *Devils Basin*, later changed to.....continued

—Barnacle Bill

JOHN'S BACKACHE

*Poor old John
Been laying in bed
He was hurting all over
From his butt to his head.*

*He took four aspirin
To ease his pain
Sitting at home
Was driving him insane.*

*Missing a weeks work
We carried on just fine
Without his snorts and grumbles
Not a soul was behind.*

*We're all glad to see him
We missed his smiling face
It's a grand feeling to know
John's back to running this place.*

—Barnacle Bill

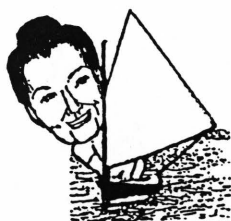
MAY 1994

Weather Report—March 21—April 24

21 - 27 MAR 94	MON	TUE	WED	THU	FRI	SAT	SUN	MEAN
DATE	21	22	23	24	25	26	27	
AIR TEMP .. HIGH	77.9	71.7	74.3	75.9	75.0	74.4	73.0	74.6
AIR TEMP .. LOW	65.6	63.3	63.3	64.2	65.8	67.8	63.4	64.8
SEA TEMP .. LOW	—	—	—	—	—	—	—	—
RAINFALL . TOTAL	0	0	0	0	0	0	0	0.00
28 MAR - 3 APR 94	MON	TUE	WED	THU	FRI	SAT	SUN	MEAN
DATE	28	29	30	31	1	2	3	
AIR TEMP .. HIGH	65.6	68.9	70.3	67.2	73.0	72.8	69.8	69.7
AIR TEMP .. LOW	54.3	58.2	57.3	61.1	61.1	64.4	61.7	59.7
SEA TEMP .. LOW	63.7	—	62.9	—	—	—	69.0	65.2
RAINFALL . TOTAL	0	0	0	0	0	0	0	0.00
4 - 10 APR 94	MON	TUE	WED	THU	FRI	SAT	SUN	MEAN
DATE	4	5	6	7	8	9	10	
AIR TEMP .. HIGH	74.4	73.0	70.7	68.7	75.7	68.5	76.1	72.4
AIR TEMP .. LOW	63.1	68.0	46.5	54.3	62.7	68.0	68.0	61.5
SEA TEMP .. LOW	—	70.0	—	63.0	—	—	—	—
RAINFALL . TOTAL	0	0	0	0	0.62	0	0	0.62
11 - 17 APR 94	MON	TUE	WED	THU	FRI	SAT	SUN	MEAN
DATE	11	12	13	14	15	16	17	
AIR TEMP .. HIGH	76.8	77.7	73.2	76.2	75.5	71.2	73.4	74.9
AIR TEMP .. LOW	69.0	70.1	64.7	66.2	66.2	63.6	64.4	66.3
SEA TEMP .. LOW	72.2	—	72.0	—	—	—	67.5	70.6
RAINFALL . TOTAL	0	0	0	0.01	0.75	0	0	0.76
18 - 24 APR 94	MON	TUE	WED	THU	FRI	SAT	SUN	MEAN
DATE	18	19	20	21	22	23	24	
AIR TEMP .. HIGH	74.4	77.0	72.3	80.2	77.5	77.5	79.1	76.9
AIR TEMP .. LOW	65.4	67.8	68.0	64.4	65.4	65.1	69.8	66.6
SEA TEMP .. LOW	—	70.0	—	69.8	—	73.5	—	71.1
RAINFALL . TOTAL	0.18	0	0.10	0	0	0	0	0.28

—Andi Wickham

Library



The library has been in the process of binding journals over the past several months, thanks to funds from the Marine Advisory Council and the General Libraries. A number of volumes have already returned.

The new Lasergraphics (slide maker) in the library has been heavily used this past month. Two new software packages have been loaded onto the IBM computer. They are: *Microsoft PowerPoint presentation graphic program* and *SigmaPlot scientific graphics software* (for windows). Paul Montagna has rewritten the menu program to include them.

Interlibrary Services in Austin is having difficulty reading our ILL requests. You need to remember that most of this work is done by non-science students. To expedite our interlibrary loans, they are making the following requests:

- Please print or write clearly. You do not have to write the entire article, only enough to identify the article.
- Use black ink only. Pencil and light blue ink are not transmitting clearly via Ariel.
- Do not abbreviate journal or book titles. We have reference tools in the library to aid you in identifying those titles you do not recognize.

Interlibrary Services has informed us that they will return requests that do not provide adequate information to identify the item and those that are illegible.

—Ruth Grundy

Books purchased through the General Libraries Approval Plan

- *Circulation and contaminant fluxes in the North Sea.*
J. Sundermann (ed.)
GC 228.6 N69 C57 1994 MSL
- *Acoustic systems in biology.*
Fletcher, N.H.
QP 461 F52 1992 MSL
- *Hydrology and water supply for pond aquaculture.*
Kyung H. Yoo & Claude E. Boyd
QH 157.85 F52 Y66 1994 MSL
- *Oceans, the illustrated library of the earth.*
Robert E. Stevenson & Frank H. Talbot (eds.)
-Q- GC 11.2 O26 1993 MSL
- *Barnacles: structure, function, development and evolution.*
D.T. Anderson
QL 444 C58 A53 1994 MSL
- *Environmental condition of the Mediterranean Sea: European Community Countries.*
F.B. de Walle, et al (eds.)
GE 160 M47 E58 1993 MSL
- *Modelling oceanic climate interactions.*
Jurgen Willebrand & David L.T. Anderson (eds.)
GC 190.2 M63 1993 MSL
- *Climatic change in the intra-Americas sea: implication of future climate on the ecosystems and socio-economic structure in the marine and coastal regions of the Caribbean Sea, Gulf of Mexico, Bahamas, and the northeast coast of South America.*
George A. Maul (ed.)
GC 981.8 C5 C5156 1993 MSL
- *Electrochemical methods in soil and water research.*
T.R. Yu and G.L. Ji
S 593 Y82 1993 MSL
- *Environmental hazards, marine pollution.*
Martha Gorman
GC 1085 G67 1993 MSL
- *A field guide to whales, porpoises, and seals from Cape Cod to Newfoundland. 4th edition.*
Steven K. Katona, et al.
QL 737 C4 K28 1993 MSL
- *Transport and transformation of contaminants near the sediment-water interface.*
Joseph V. DePinto et al. (eds.)
TD 423 T73 1994 MSL
- *Marine phytoplankton: a guide to the naked flagellates and coccolithophorids.*
Carmelo R. Tomas. (ed.)
QK 934 M36 1993 MSL
- *The physiology of fishes.*
Edited by David H. Evans
QL 639.1 P49 1993 MSL
- *Chemical and biological regulation of aquatic systems.*
Jacques Buffle & Richard R. DeVitre
GB 855 C44 1994 MSL
- *Ocean processes in climate dynamics: global and Mediterranean examples.*
Paola Malanotte-Rizzoli & Allan R. Robinson
GC 190.2 O23 1994 MSL
- *Shrimp capture and culture fisheries of the United States.*
E.S. Iversen, D.M. Allen & J.B. Higman
SH 380.62 U6 I94 1993 MSL

- *Oceanology of China Seas. Volume 1.*
Zhou Di, Liang Yuan-Bo, and Zeng
Cheng-Kui (C.K. Tseng) (eds.)
GC 801 O34 1994 V.1 MSL
- *Quality assurance in seafood
processing: a practical guide.*
A.D. Bonnell
S 335.5 Q35 B66 1994 MSL
- *Coastal fishes of south-eastern
Australia.*
Rudie H. Kuiter
QL 636 K84 1993 MSL

Gift/Exchange Books

- *Summary of public comments on
alternatives of the draft Exxon Valdez
Oil Spill Restoration plan.*
TX 427 P4 S896 1993 MSL
- *Report, Brown Tide Symposium and
Workshop, 15-16 July 1991.*
T.E. Whitledge
QH 91.8 P5 B769 1991 MSL
- *Hydrologic study of water exchange
structures blind Oso habitat
enhancement program.*
City of Corpus Christi
GB 705 T4 H9276 1991 MSL
- *Regional wastewater planning study --
phase II, Nueces Estuary.*
TD 645 N8422 1993 MSL
- *The natural environment and the
biogeochemical cycles.*
P.J. Craig, et al.
QD 31 H335 MSL
- *Bibliography: research on the natural
resources of the Padre Island National
Seashore, Corpus Christi, Texas.*
Ron Miller, Quenton Dokken with
David Blount and Christi
Adams
HT 393 T4 B537 1993 MSL
- *The Laguna Madre of Texas: ecosystem
of a hypersaline estuary.*
Rusty Tarver
GC 1197.83 T4 T378 1987

- *Sediment transport supplement to
development report on fish passes and
water interchange for the upper Laguna
Madre and Corpus Christi Bay, coastal
Texas.*
A Lockwood, Anderson & Newnan
report
SH 153 L8171 1959 MSL
- *Final report inflow needs assessment:
effect of the Colorado River diversion on
benthic communities.*
Paul A. Montagna
QH 541.5 E8 M658 1994 MSL
- *Proceedings, First ternary eastern Gulf
of Mexico studies meeting, October 15-
16, 1981, Tallahassee, Florida.*
Woodward-Clyde Consultants
QH 541.5 S3 T476 1981 MSL
- *Final Report, blind Oso habitat
enhancement program.*
John W. Tunnell, Jr.
QL 84.22 T4 T866 1991 MSL
- *Training resource book on a
participatory method for modelling
bioresources flows.*
Lightfoot, Clive
S 472 A1 L54 1991 MSL
- *Artificial reefs for marine habitat
enhancement in Southeast Asia.*
Alan T. White et al.
SH 157.85 A7 A79 1993 MSL
- *Comparison of ecosystem structure and
function of created and natural
seagrass habitats in Laguna Madre.*
Paul A. Montagna
QH 541.5 M3 M668 1993 MSL
- *Manual de laboratorio para del cultivo
de larvas de Camaron Peneido.*
Granvil D. Treece Y Michael E.
Yates
SH 380.6 T74 1993 MSL
- *Interactions of aquaculture, marine
coastal ecosystems, and near-shore
waters: a bibliography.*
QH 541.5 C65 H35 1991 MSL
- *Biogeography of Mesoamerica,
Proceedings of a symposium. Merida,
Yucatan, Mexico, October 26-30, 1984.*
Steven P. Darwin & Arthur L.
Welden
QH 108 A1 B56 1992 MSL

- *Longline fishing. FAO Training Series.*
SH 344.6 L64 G46 1993 MSL
- *Reflections below.*
Standish Forde Medina
TR 800 M43 1991
- *A plankton and benthos survey of the San Antonio Bay system, March 1972 - July 1974.*
Goeffery A. Matthews, et al.
QH 91.8 B4 M389 1974 MSL
- *Webster's new geographical dictionary.*
G & C Merriam Co.
G 103.5 W42 1980 MSL
- *Recreational and commercial finfish catch statistics for Texas Bay Systems September 1994 to August 1977.*
A.W. Green, et al.
SH 222 T4 G73 1982 MSL
- *The coastal resources of Brunei Darussalam: status, utilization and management.*
Geronimo Silvestre et. al (eds.)
HT 395 B8 A84 1991 MSL
- *The study of the effect of oilfield brine effluents on biotic communities in Texas estuaries.*
J.G. Mackin
GC 1021 T4 M3 1971 MSL
- *The study of commercial shrimp, rock shrimp, and potentially commercial finfish 1973-1975.*
C.E. Bryan and Terry J. Cody
QH 380.62 M49 B79 1975 MSL
- *Evaluation of 1463-m trammel and 4-square gill nets for estimating finfish abundance in Texas bays.*
Gary C. Matlock et al.
QL 628 T4 M377 MSL
- *Water resources in Texas: the need for a water research agenda.*
Ernest T. Smerdon (ed.)
TC 424 T4 W395 1984 MSL
- *Coastal tourism in Southeast Asia.*
P.P. Wong
HT 391 W33 1991 MSL
- *Enhanced hydrographic survey for CPL discharge in Nueces Bay.*
Terry E. Whitledge
GC 1212 T4 W457 1993 MSL
- *A plankton and benthos study of the San Antonio Bay System: preliminary report on methods, species compositions and standing crops for the period of March - August 1972.*
Water Development Board Contract
Study San Antonio Bay
QH 91.8 B4 M38 1973 MSL
- *La Quinta Channel environmental monitoring project: benthic diversity.*
Paul A. Montagna and Christopher Martin
QH 91.8 B4 M669 1994 MSL
- *Nutrient enhanced coastal ocean productivity.*
Dale Y. Dong and Terry E. Whitledge
QH 541.5 C65 D663 1992 MSL
- *Study of possible improvements Cedar Bayou Fish Pass St Joseph and Matagorda Islands, Texas.*
Lockwood & Andrews Consulting Engineering
SH 153 S793 1953 MSL
- *Integrative framework and methods for coastal area management.*
C. Thia-Eng & L.F. Scura
HT 395 A785 R43 1992 MSL
- *Biology and conservation of the Monarch butterfly.*
S.B. Malcolm & M.P. Zalucki
QL 561 D3 B56 1993 MSL
- *La Acuicultura en Mexico: de los conceptos a la produccion.*
Guadalupe de la Lanza-Espino and Jose Luis Arredondo Figueroa
SH 135 A685 1990 MSL

- *Taller Mexico-Australia sobre reclutamiento de recursos benthonicos de Baja California.*
Secretaria de Pasca
SH 367 M6 T34 1991 MSL
- *Marine resources bibliography of Guam.*
Masanami Izumi and Heather Jackson
SH 319 G82 I98 1993 MSL
- *Ecology of Cox Bay, Texas: before and after power plant operations.*
Frank N. Moseley
GC 1021 T3 C4 1973 V.1 & V.2 MSL
- *Proceedings of the first international conference on the culture of Penaeid Prawns/Shrimps.*
Yasuhiko Taki *et al.* (eds.)
SH 380.6 I66 1984 MSL
- *Nutrient requirements of fish. Committee.... National Research Council.*
SH 156 N86 1993 MSL
- *Oceanology of China. Volume 2.*
Zhug Di *et al.* (eds.)
GC 801 O34 1994 V.2 MSL
- *Silver swimmer.*
Richard Buck
SH 346 B83 1993 MSL
- *Trout stream therapy.*
Robert L. Hunt
SH 157.8 H83 1993 MSL
- *World fisheries resources.*
James R. Coull
SH 327.5 C68 1993 MSL

Mary Anderson Abell Endowment

- *The Gulf of Mexico.*
Robert H. Gore
F 296 G67 1992 MSL

Marine Science Advisory Council

- *Managing troubled waters: the role of marine environmental monitoring.*
Committee on a Systems Assessment of Marine Environmental Monitoring,
Marine Board. National Research Council
HC 110 W32 M36 1990 MSL

Approval Plan

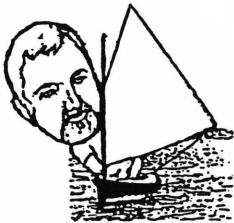
- *Bacterial fish pathogens: disease in farmed and wild fish. 2nd ed.*
Brian Austin and Dawn A. Austin
SH 177 B3 A97 1993 MSL

Letters to the editor

■One question first: are you the same John Thompson who was there during my Odumite/Jack Briggs stint from '59—63? If not, Sorry! (Editor: Yes, that was/is me.) In any event thank you for putting me on the mailing list for the Lazarette Gazette. I received the Volume 3(6), March '94 issue today and will look forward to receiving it in the future. Two questions: I know how *The Jolly Red Giant* (HT Odum) and Bob Beyers are, but whatever happened to Bill Behrens? Is the Institute still publishing a journal? If so please send me a copy of the most recent issue (with instructions for authors). This is because I'm looking for an oceanographic place to publish a paper *On Exodus as an oceanographic phenomenon....* (Frank J. Little, Ph.D., 1963)

Safety

Fire extinguisher training — Mr. George Godward, the Fire Marshall of the Office of Environmental Health and Safety, will be coming to the MSI on Monday and Tuesday, 9 and 10 May, to conduct classes on the proper use of fire extinguishers. The first sessions will be held on Monday afternoon and additional sessions will be held on Tuesday morning. About 15 people can attend each session and the sessions will take about 30 minutes.



Editor's Note

Finally, here is another issue of the *Lazarette Gazette*. The delay is due to an operation on my back. Although a few suggested I include in this issue my *Top ten reasons I am glad I had my back operation*, most who saw it on the bulletin board will agree it was not exactly suitable for publication. Besides, I have included Barnacle Bill's poem on the subject. The little sailing figures are slightly different this issue thanks to Patty Baker and the Image Analysis Equipment. I can now type *Whitledge* on the key board and insert the Acting Director right into the document; whereas before it took the xerox machine, scissors, and scotch tape. In the future, with larger and better originals, we should be able to improve their quality. For almost the first time I have no *Egabrag Wocs* column. Curly Wohlschlag gave me a good idea, but I haven't had a chance to work on it. The idea is *Tuna Wine*. Someone on the Inter-American Tropical Tuna Commission is not only interested in tuna (fish) but also tunas (cactus fruit) and suggested to a Hawaiian winery (seriously) they produce *Tuna Wine* and make something of the play on words with *Tuna Fish*. Somehow this doesn't make me thirsty. Maybe in Port Aransas we could have *Marlin Wine* from fishing twine or *Mackerel Wine* from old Mack Trucks. You can see why I decided to publish Barnacle Bill's historical work instead. Thanks to all who covered for me in my absence and helped with this issue of the *Lazarette Gazette*.

—John Thompson