

# MSRC



Vol. V. No. 6

March 5, 1990

Schedule of Events  
March 5 -11, 1990

MON 1700 Soundings entries due.

TUE

WED 1145 MSRC Weekly Seminar, Challenger 165, "Pettaquamscutt  
Estuary: A natural lab for studying the Gaia hypothesis."  
Dr. John Sieburth, URI.

THU

FRI 1400 MSRC Executive Committee, Endeavour 113.

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1530 Friday Discussion Group, Challenger 163, "Interactions  
between Aquaculture and Traditional Fisheries in the Bay  
of Fundy, Canada," Peter Lawton.



## Student Profile

### Hashali Hamukuaya

I was born in Oshikango, the largest border town (half the size of Stony Brook) between Angola and Namibia. My family consists of 12 offspring, and I am the 9<sup>th</sup> in the line of birth. I did my primary education at Oshikango and continued my secondary education at Oshakati, the commercial and administrative center of Northern Namibia. My studies were interrupted in mid 70's when our school was shut down because we refused to be taught in Afrikaans (a language spoken mainly by the Dutch descendants of South Africa). The closure of the school was followed by mass arrests of student participants which prompted many of us to leave the country.

I spent several years in Zambia where I completed my secondary education. I entered Dillard University, New Orleans, Louisiana in '85 and completed my BS (bio) there. I love New Orleans for its spicy food, 'perfect' life in Bourbon Street and of course Mardi Gras. In the Fall of '88, thanks to the Dillard-Suny co-operate agreement, I joined MSRC.

My interest in marine science can be traced back twenty years ago when my parents and I visited Walvis bay in '71. I was so fascinated by the huge waves of the Atlantic ocean which were dissipated along the sandy shoreline with big force and in great numbers. My Dad was willing to explain to me the marine resources of the Atlantic for he worked for many years in fishing industry after the war (WWII). Very much disappointed, when I returned home last December (after sixteen years in foreign lands) the South African authority would not permit me to enter Walvisbay area for they claim that the bay is nor longer part of Namibia.

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## **MARINE ENVIRONMENT EXPOSITION**

During the week of 21 May, the Center will be participating in a Marine Environment Exposition at the Sewanhaka Yacht Club in Oyster Bay. During the Expo, which lasts the full week, 1500 4th, 5th and 6th graders from around Long Island will get a chance to learn about the marine environment, various maritime and nautical subjects, and get tours of some vintage sailing vessels, including the Little Jennie and the Mimi, a 74' restored sloop. The R/V ONRUST will put in an appearance for two days and the Center will have a table display under the exhibitors tent. Volunteers are needed to staff the display and to help with tours and gear demonstrations on the ONRUST. If you are interested in helping out, please see Bill Wise.

## **GLOBAL OCEAN ECOSYSTEMS DYNAMICS RESEARCH**

\* Opportunities are available for participation in global ocean ecosystems research being developed by the U.S. GLOBEC Steering Committee of NSF, Division of Ocean Sciences. They will be addressing the question: what will be the impact of the changes in our global environment on the populations and communities of marine animals comprising marine ecosystems? Proposals are due 15 May 1990.

## **HELP NEEDED**

## **REMINDERS**

Time sheets are due March 15 for research supported personnel and all State professional staff. Please give time sheets to Christine.

State-supported faculty should sign the roster next to the check box in the Main Office in ink by March 15.

## **EMPLOYMENT OPPORTUNITIES**

\* Are you a Ph.D recipient and interested in doing experimental and/or theoretical research in the field of physical limnology in Switzerland for 2 to 3 years? The department of Environmental Physics at the Swiss Federal Institute of Technology are a group of 6 studying mixing processes and internal wave dynamics in lakes. A postdoctoral position is available. Begins May 1990.

## **COLLEGE PHOTOGRAPHY COMPETITION**

\* The 45th annual College Photographer of the year competition has been announced, the deadline is March 28, 1990. Main Office has the details.



## UNIVERSITY CLUB

The University Club cordially invites all Faculty, Staff and Alumni to A Membership Breakfast sponsored by The Provost's Office on Monday, March 5, 1990 from 8:30 am. to 10:00am. at The University Club (Second Floor Graduate Chemistry Building).

## 18th-CENTURY BALLAST PILE SITE

\* The Minerals Management Service recently released a report entitled *An Eighteenth-Century Ballast Pile Site, Chandeleur Islandss Louisiana, An Instrumental and Archaeological Study*. This report presents the results of an effort to acquire data on a possible historic shipwreck in the Chandeleur Island area offshore Louisiana.

## 1990 UNIVERSITY COMMUNITY DAY

The University will hold its annual open house on Saturday, May 5, from 11-3. Last year, the Center had an exhibit that was very popular and we intend to do a similar display this year. We need volunteers to set things up, man the tables and then dismantle things at the end of the day. If you'd like to be a part of our team, please let me know by Friday, March 9. Jeri Schoof.

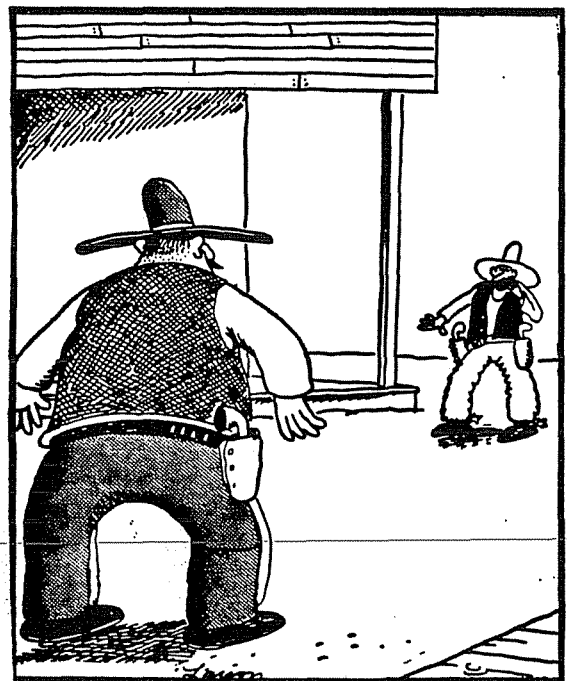
Hartmut Peters needs help for moving on the evening of Wed., March 7.

## BIKE RIDERS

Please do not ride on wheel bikes in the hallways. It makes it difficult for our cleaning people to get the marks off the floors. Please lock them up in the bike racks outside. Thank you.

## EMPLOYMENT SOUGHT

James V. Carretta holds a B.S. in Marine Biology from Long Island University at Southampton. He seeks a full-time technical position in the field of either biological oceanography, or organismal ecology/biology. His resume is on file in the main office, and home phone number is 331-1583.



"Shoe's untied!"





# MSRC



Vol. V No. 7

March 12, 1990

Schedule of Events  
March 12 - 18, 1990

Mon 1700 Soundings entries due.

Tue

Wed 1145 MSRC Weekly Seminar, "Changes in latitude, changes in attitude," David Conover MSRC.

Thu 1200 Special Seminar, Challenger 165, "Penguins, seals and bacteria: eating chitin in Antarctica." Russell P. Herwig, Candidate for Microbiology position.

Fri 1300 Faculty Meeting, Challenger 165.

1600 Friday Discussion Group, Challenger 163, "Experimental Test of Independence of Nutrient and Predator Control in Aquatic Food Webs," Stephen Threlkeld, Lewis Calder, Conservation and Ecology Center, Armonk, WY.



### MSRC Faculty

The University Senate is now soliciting suggestions for nominations to its various standing committees. Elections will be held in April. Anyone interested in increasing their University service by being on one of these committees (there are 22 of them) or by being an "at large" member of the Senate should see me before March 16th. I have a listing of all committees and their responsibilities.

David Conover

### Reminders

Time sheets are due March 15 for research supported personnel and all State professional staff. Please give time sheets to Christine.

State-supported faculty should sign the roster next to the check box in the Main Office in ink by Mar 15.

Agenda items for the faculty meeting should be given to Jeri by tuesday, March 13. A final agenda will be distributed on Wed., March 14.

### Missing Directory

Someone borrowed the Main Office copy of the Directory of Marine Scientists. Please return it.

### Plant Sitter Wanted

I need someone to water the plants in my office (Dana 103) while I'm away April 2-20. Two waterings would do it. Doreen Monteleone, 2-8664

### Past Due Xeroxing

Bills can be paid in installments by cash or check to Christine or by check in the Main Office. Christine can be found in the Reference Room in the morning and Bill Wise's Office (Dis. 155) in the afternoon.

From the GPC Rep., P.Dooley, S. Sanasdottir.

### Save \$\$\$, typeset articles in JGR yourself.

I have a macro command package to do typesetting of JGR articles using LATEX and TEX. I am running TEX on my Macintosh, but you can use the VAX too. TEX is the standard of semi-professional to professional typesetting language, i.e., you can program just about anything you like. TEX does not follow the wysiwywg philosophy, hence, there are no translators to/from PC-type editors like Word etc. See me for more information. Hartmut Peters.

### Dinner Announcement

The international dinner has been scheduled for March 30. Stay tuned.



### Relocation of the AQUARIUS

\* The National Undersea Research Center at Fairleigh Dickinson University announces that the saturation diving habitat AQUARIUS will be relocated from St. Croix, U.S. Virgin Islands, to a new site in the Caribbean. Discussions are underway to select the new habitat site, and the NURC-FDU requests help from interested parties in the selection process. Site position will be finalized by April, 1990.

### Photo Exhibit

\* The Second Annual Faculty and Staff juried Photography Exhibition will be held on March 26-29, 1990 in the Alliance Room in the Main Library.

### Employment Opportunities

\* The NMFS seeks sea-going Biological Technicians to work 40 hours per week or more as the only government employee aboard privately owned tuna purse seine vessels. Closing date is 9/30/90.

### Meetings

\* A conference entitled "Promoting Sustainability in Michigan Agriculture" is being held at the Michigan State University on March 21-22, 1990.

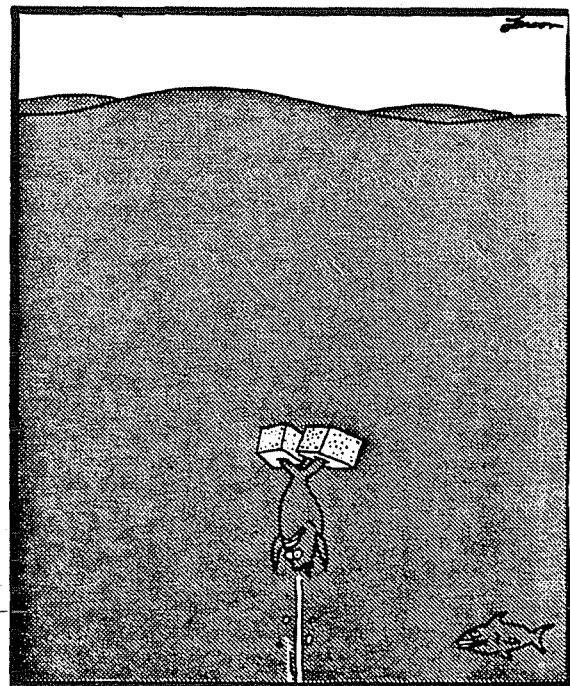
\* A public forum on Preserving Earth's Biological Diversity will be held on Friday March 16-17 at the American Museum of Natural History. The admission fee to enter is pay-what-you-will. Details call (212) 769-5305.

### Internship Opening

\* An environmental educator is sought for the Vaughn's Island '90 4-H Camp in Maine. The program seeks to instill an appreciation of Maine's coastal environment and an understanding of basic ecological concepts through fun-filled hands-on activities. Deadline to apply is April 13, 1990.

### Shannon Point Marine Center

\* The NSF supports undergraduates in independent, supervised research. Student support includes a \$2000 stipend plus housing at SPMC for the nine-week session (June 26-Aug 24). See Main Office for details.



Embedded in Styrofoam "shoes," Carl is sent to "sleep with the humans."



# MSRC



Vol. V. No. 8

March 19, 1990

Schedule of Events  
March 19 - 25, 1990

Mon 1200 Special Seminar, Challenger 165, "Microbial Ecology of Sedimentary Particles and Implications for Oceanic Biogeochemistry and Productivity," Gordon T. Taylor, Candidate for Microbiology position.

1700 Soundings entries due.

Tue

Wed 1145 MSRC Weekly Seminar, Challenger 165, "The Role of the Ocean in Climate Models" D.P. Wang, MSRC.

Thu 1600 Special Seminar, Challenger 165, "Tracing aquatic bacterial substrate sources with stable isotopes," Richard B. Coffin, candidate for Microbiology position.

Fri 1600 Friday Discussion Group, Challenger 163, "Enhancement of photosynthesis and growth under fluctuating light: physiological responses and biochemical mechanisms," Richard Greene, MSRC.





### Special Meetings

On Wednesday, March 21, EPA is holding their LISS technical advisory committee meeting at MSRC. Attendance at this meeting is by invitation only from EPA.

On Thursday, March 22, the Coast Institute is hosting a brainstorming session to identify possible solutions to the fundamental causes of the floatable and medical-type wastes in the region. Attendance at this meeting is by invitation only from the Main Office.

### Ship Time

Applications for shiptime aboard the R/V Cape Henlopen, a 40-meter UNOLS vessel operated by the University of Delaware, are due on 01 Jun 1990. See Bill Wise for further information and ship time request forms.

### Concrete Pad Notice

Please take notice: THE CONCRETE PAD next to Discovery Building is NOT a work area for private auto's at any time, including weekends or nights!!!

### To Everyone at MSRC

I just wanted to take this opportunity to say good bye. I have enjoyed my 3 1/2 years working with the best people at Stony Brook, but it's time to move on. If you are ever in Admin, passing by room 221, stop by and say hello. Sharyn Schorr

### Conferences and Workshops

\* The Michigan Department of agriculture and Michigan State University are sponsoring a conference entitled, "Promoting Sustainability in Michigan Agriculture" on March 21-22, 1990. You must register by March 16, 1990.

### Climate Models and Shape Theory

\* The S.S. Wilks Workshop on Climate Models and Shape Theory is being held from April 19-21, 1990 at the Taplin Auditorium and Computer Science Auditorium at Princeton University. Contact Colin Goodall at Princeton for further info.

### Employment Opportunities

\* A food inspector (Processed Products) is wanted by the NMFS in the Western Inspection Office. Inspectors will perform inspection activities at one or more plants engaged in handling, processing, packaging and labeling fish and fishery products. Open until filled.

\* A M.S. or Ph.D. Graduate Student Assistantship is available on June 1, 1990 at the Texas Cooperative Fish and Wildlife Research Unit in Lubbock, Texas. Stipend is \$8,200/year. Work will be on a project on the hormonal control of spawning in commercially important fish species. The student will assist in the collection and maintenance of experimental fish as well as in experimentation and data focus on cellular and molecular aspects of the regulation of oocyte maturation.

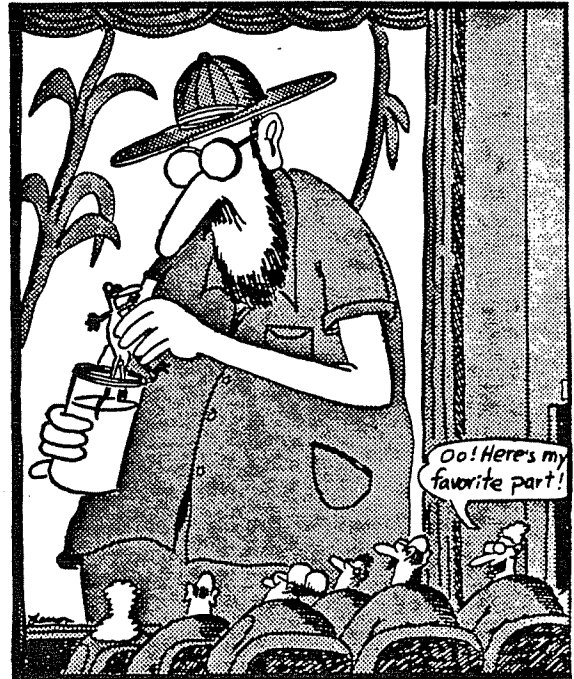


## US EPA

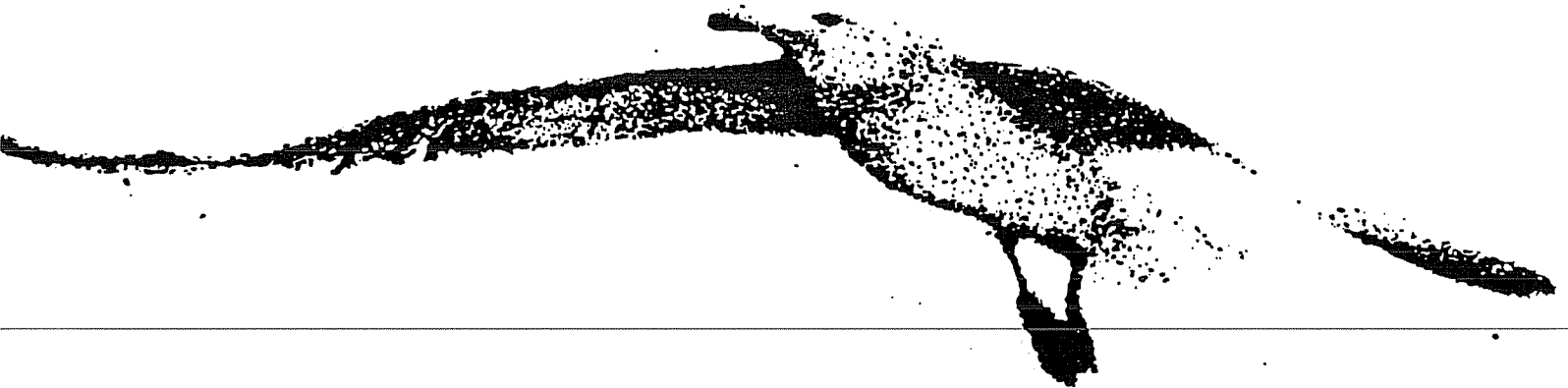
\* The US EPA is seeking a marine scientist, marine biologist or oceanographer with experience in marine or estuarine protection issues and resource management to work in the Marine and Estuarine Protection Section at the US EPA's Region I office. Closing date is March 23, 1990.

## Invertebrate Physiologist

\* The Harbor Branch Oceanographic Institution in Fort Pierce, FL , is seeking to fill an entry-level position on the resident scientific staff of the Division of Marine Sciences. Strong preference will be given to scientist with interests in the comparative physiology or physiological ecology of marine invertebrates. Appicates should have post-doc experience. App deadline is 1 May, 1990.



Scene from *Bring 'Em Back Preserved*





DO NOT FORGET!  
THE ~~THE~~ ANNUAL  
INTERVATIOUAL

DINNER WILL TAKE  
PLACE ON FRIDAY, MARCH 30<sup>th</sup>

(Starting at 6 P.M. at Challenger 165).

More details coming up

4

Schedule of Events

March 26 - April 1, 1990

Mon 1700 Soundings entries due.

Tue

Wed 1145 MSRC Weekly Seminar, Challenger 165, "Sulfer cycling in sediments: are lakes like oceans?" Anne Giblen, MBL.

Thu

Fri 1600 Friday Discussion Group, Challenger 163, "Estimation of Stage Specific Demographic Parameters of Zooplankton Populations using Matrix Methods," Sarah Twombly, URI.

**MSRC**







### United Negro Fund

United Negro Fund is sponsoring a 10 km Walkathon in Hemsted on 7 April 90. The Brothers of Phi Beta Fraternity, Inc. are spearheading the recruitment drive here at Stony Brook. What we are looking for is walkers and/or sponsors. For more information and/or applications contact:

Lucien Howard 2-4571

Conrad Gardner 2-4890

Jonh Wong 2-3441/42

We will be actively recruiting the week of 26-30 March. Please help. "A mind is a terrible thing to waste!!!

### Collection of Essays

\* Oregon Sea Grant, a marine science and education program based at Oregon State University, has just published Ocean Agenda 21: Passages to the Pacific Century, a collection of essays on emerging issues for the coming century. Call (503) 737-0755, if you would like to review the book.

### Senior Leadership and Service Award

\* The Department of Student Union and Activities has, for the past several years, coordinated several projects which are important to graduating seniors. Many outstanding students have been identified and nominated through your active support of these programs. Please nominate graduating seniors in your classes or department who you feel qualify for these awards by Friday March 30, 1990.



Moby's parents



Murphy 6

My very dear Student

Here I am back at the word processor again. I can't stay away. Technology has me, finally, after all these years. I join the real world.

I thought that you might appreciate another recipe from the rustic country kitchen of my dear Mother. This is an old Northumbrian recipe which dates back to last month, I believe. It constituted my first homecoming meal, so you may well imagine the emotional significance which it holds for me. So off we go.

VERA'S SEMI-THAWED FROZEN CHICKEN WITH NON-FRESH VEGETABLES AND SOUP STARTER.

1 can vegetable soup  
1 frozen chicken  
Frozen peas  
Frozen carrots  
Instant mashed potato  
Knorr gravy mix

Remove lid from soup can. Discard lid. Introduce soup into heat-proof saucepan and set aside.

Remove all wrapping from chicken. Discard innards, which should be in a nice little packet all wrapped up. Remove frozen vegetables from sachets. Lob quartered chicken into casserole dish and cover with Knorr gravy mix. Add frozen vegetables.

At this point, your oven should be heated thoroughly, at maximum temperature. Boil canned soup for three minutes. Serve immediately. Cook chicken and vegetables at 400 for two and a half hours. Toward the end of your cooking time (you will find it advantageous to use a cooker with a timer) mix the instant mashed potato with hot tap water until consistency of baby regurgitation. Reserve. Tip chicken and vegetables onto plate and accompany with the potato. Serve immediately, with strong tea.

Serves three.

Now, I hope you have every success with this little dish. Raspberry ripple ice cream with tinned peaches serves as a nice accompaniment, in terms of "puddings".

If it were not for the fact that this could be anyone's Mum's speciality I should feel guilty - as if I were mocking. BUT YOU KNOW ME WELL ENOUGH TO KNOW THAT I WOULD NEVER DO SUCH A THING. Thank goodness....so my conscience is clear.

The weather is very nice here in London considering the time of year. I have a book to recommend for you. "New York Stories" by Paul Auster and yes it's in paperback.

Must dash now. Keep up the lovely letters. London address now!

Avec le temmoinage de mon amour (heard it in a song)!

Your most obedient and humble servant, in versimilitude,

---

Master William Murray (Colonel; Ret'd). Order of the Hedonist Cross.

William



**V**

# **International Dinner**

**30 March 1990**

**6:30 PM**

**Room 165 Challenger**

**International Cuisine and a  
good time!**

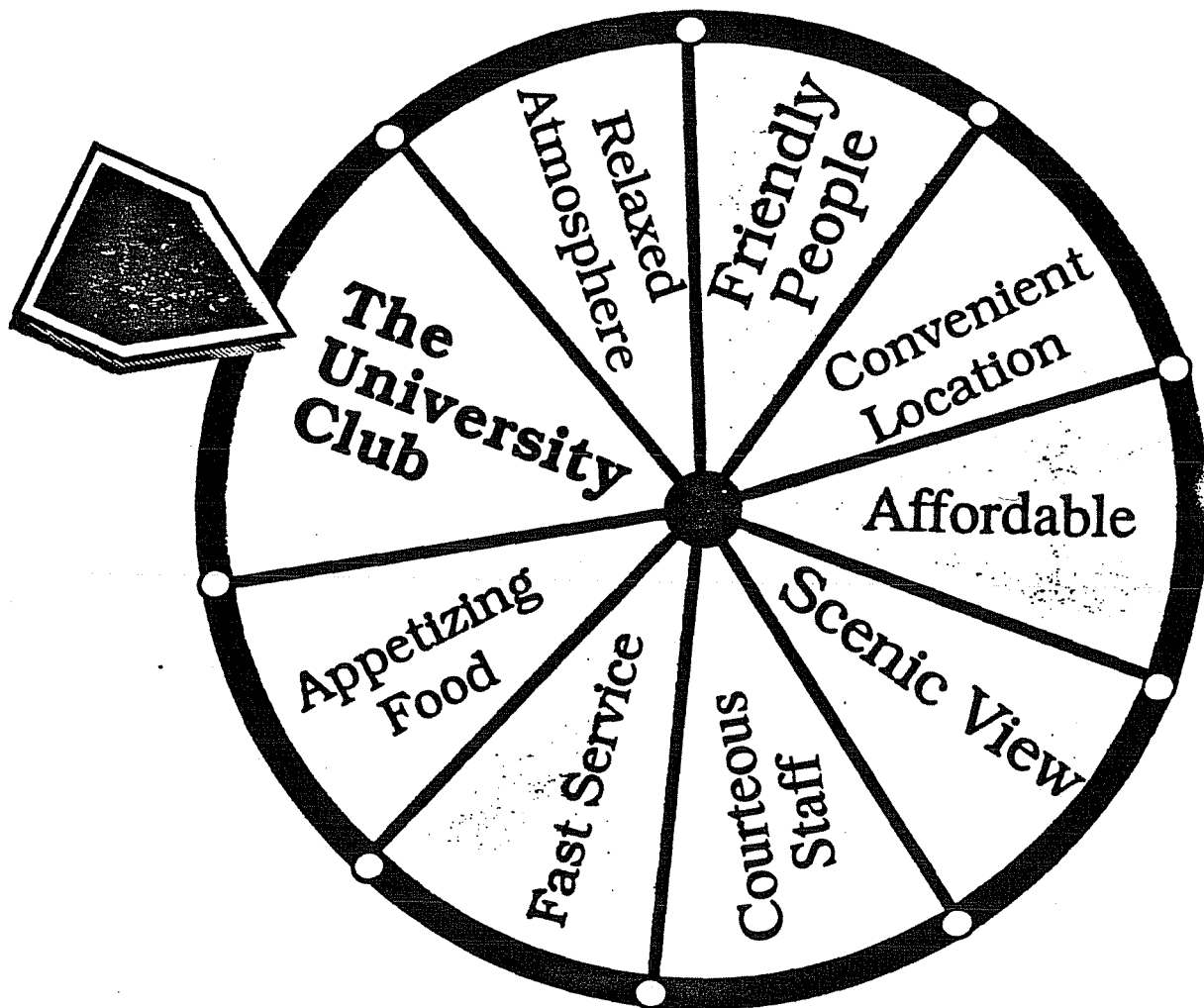
**Tickets at the door**

**Adults : \$ 5.00**

**Children: \$ 2.50**



# TAKE THE GIMBLE OUT OF LUNCH



## The University Club

Chemistry Building, Second Floor • 632-7069

Monday - Friday, 11:30 am - 2:00 pm

Lunch for Stony Brook Faculty, Staff and their Guests





# MSRC



Vol. V. No.10

April 2, 1990

## Schedule of Events

April 2 - 8, 1990

Mon

Tue 1000 Welcome Reception for James O'Brien, DVS, Endeavor Lounge.

1145 DVS Seminar, Challenger 165, "How to model the upper ocean for global change."

1700 Soundings entries due.

Wed 1145 MSRC Weekly Seminar, Challenger 165, "Forecasting El Nino and Visualization," James O'Brien, FSU.

Thu 1500 DVS Seminar, Challenger 165, "Variational oceanic data assimilation."

Fri 1600 Friday Discussion Group, Challenger 163, "Spectrophotometric View of British Columbia," Ajit Subramanian.



### SUMMER INTERN

\* Harbor Branch Ocean Oceanographic Institution, Inc. offers a Summer Intern Program to qualifying undergraduate and graduate students interested in ocean engineering, the marine sciences, biomedical marine research, coastal, environmental, and aquacultural sciences and related fields. Due to the popularity of the program and limited funding, applications must be returned by mid April.

### RESEARCH ASSOCIATE/POSTDOCTORAL POSITIONS

\* The physical oceanography group at Dalhousie University in Halifax, Nova Scotia, is currently interested in a wide range of research topics including ocean stirring and mixing, nearshore processes, wind-driven shelf and ocean circulation, and exchange between marginal seas and the deep ocean. The recent establishment of an atmospheric sciences program at Dalhousie, and the funding of a center of excellence in fisheries research, provide additional research opportunities for post-Ph.D physical oceanographers interested in topics such as air-sea interaction and the physical-biological processes involved in recruitment to North Atlantic fish stocks.

### POSITION AVAILABLE

\* Research assistant needed by The Academy of Natural Sciences, Benedict Estuarine Research Lab. in Benedict MD, to participate in studies of the behavior, ecology and susceptibility to toxins of estuarine and freshwater fishes. Should have a bachelors degree in biology or a related field. Start mid-May. They will be involved in studying how dissolved oxygen affects the behavior, growth, survival, feeding rate and susceptibility to predators of fish larvae. Another project will examine the effects of selenium on freshwater fishes. Send resume, list of references and cover letter to Denise Breitburg, The ANS, BERL, Benedict, MD 20612.

### INSTRUCTORS NEEDED

\* Seacamp Instructor positions available at Seacamp, a unique Marine Science/SCUBA environmental summer camp in the lower Florida Keys for teenagers 12-17. Course topics include mangrove ecology, coral reef ecology, ichthyology, animal behavior, sponge flats, tide pools and other local habitats. Must be 21 years old and have a Bachelor's Degree and interest in kids. Write or call for an application.



### OPPORTUNITIES FOR US SCIENTISTS

\* The opportunity exists for three US specialists to go to China for up to three months to participate in cooperative studies in the field of marine cultivation of red algae. Also the opportunity exists for three US shrimp experts to travel to China for a period of six months to participate in studies in pathology nutrition and growth of shrimp. Also the opportunity exists for three US experts to visit China for a period of three weeks to participate in a program regarding the nutritional requirements and diet formulation of fin fish. China will pay all in-country costs. Please phone Lois Roe or Barbara Moore, NOAA, OAR/IA at (301) 443-8845.

### VACANCY ANNOUNCEMENT

\* An Industrial Hygienist is being sought to provide expert advice and direction in a broad range of Industrial Hygiene and site Safety matters during oil and chemical spill response activities and on public health issues arising from contamination of human food sources to insure personnel health and safety of employees and the public. Seattle Wash. Branch.

### THE SECOND ANNUAL MSRC CLEAN-UP

Last summer, we had a clean-up of MSRC's grounds and buildings and a number of you participated. I'm hoping even more will participate this spring. The big day will be announced soon. A sign-up sheet will be posted on the Main Office Door starting Monday, April 12. Watch Soundings for updates. Jeri

### UNITED NEGRO COLLEGE FUND

United Negro College Fund is sponsoring a 10 km Walkathon in Hemsted on 7 April 90. The Brothers of Phi Beta Fraternity, Inc. are spearheading the recruitment drive here at Stony Brook. What we are looking for is walkers and/or sponsors. For more information and/or applications contact:

Lucien Howard: 2-4571

Conrad Gardner 2-4890

Jonh Wong 2-3441/42

We will be actively recruiting from the week of 26 March. Please help. "A mind is a terrible thing to waste!!"

#### **Karma Repair Kit: Items 1-4**

1. Get enough food to eat,  
and eat it.
2. Find a place to sleep where it is quiet,  
and sleep there.
3. Reduce intellectual and emotional noise  
until you arrive at the silence of yourself,  
and listen to it.

4.

Richard Brantigan

1. The first part of the document is a list of the names of the persons who have been appointed to the various offices of the city.

2. The second part of the document is a list of the names of the persons who have been appointed to the various offices of the city.

3. The third part of the document is a list of the names of the persons who have been appointed to the various offices of the city.

4. The fourth part of the document is a list of the names of the persons who have been appointed to the various offices of the city.

5. The fifth part of the document is a list of the names of the persons who have been appointed to the various offices of the city.

6. The sixth part of the document is a list of the names of the persons who have been appointed to the various offices of the city.

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9. The ninth part of the document is a list of the names of the persons who have been appointed to the various offices of the city.

# MSRC



Vol. V. No. 13

April 23, 1990

Schedule of Events  
April 23 - 29, 1990

Mon 1600 Intramural Softball Game, field 2.

Tue 1700 Soundings entries due.

Wed 1145 MSRC Weekly Seminar, Challenger 165, "Photosynthetic pigments in the water column and recent sediments: - Applications as geochemical tracers," Dan Repeta, WHOI.

Thu 1530 Special Seminar for students, Endeavour 113, "Swim-with-the-Dolphin Program," James F. Gesauldi, former S.B. student.

1700 Intramural Softball Game, field 3.

Fri University Clean-Up Day.

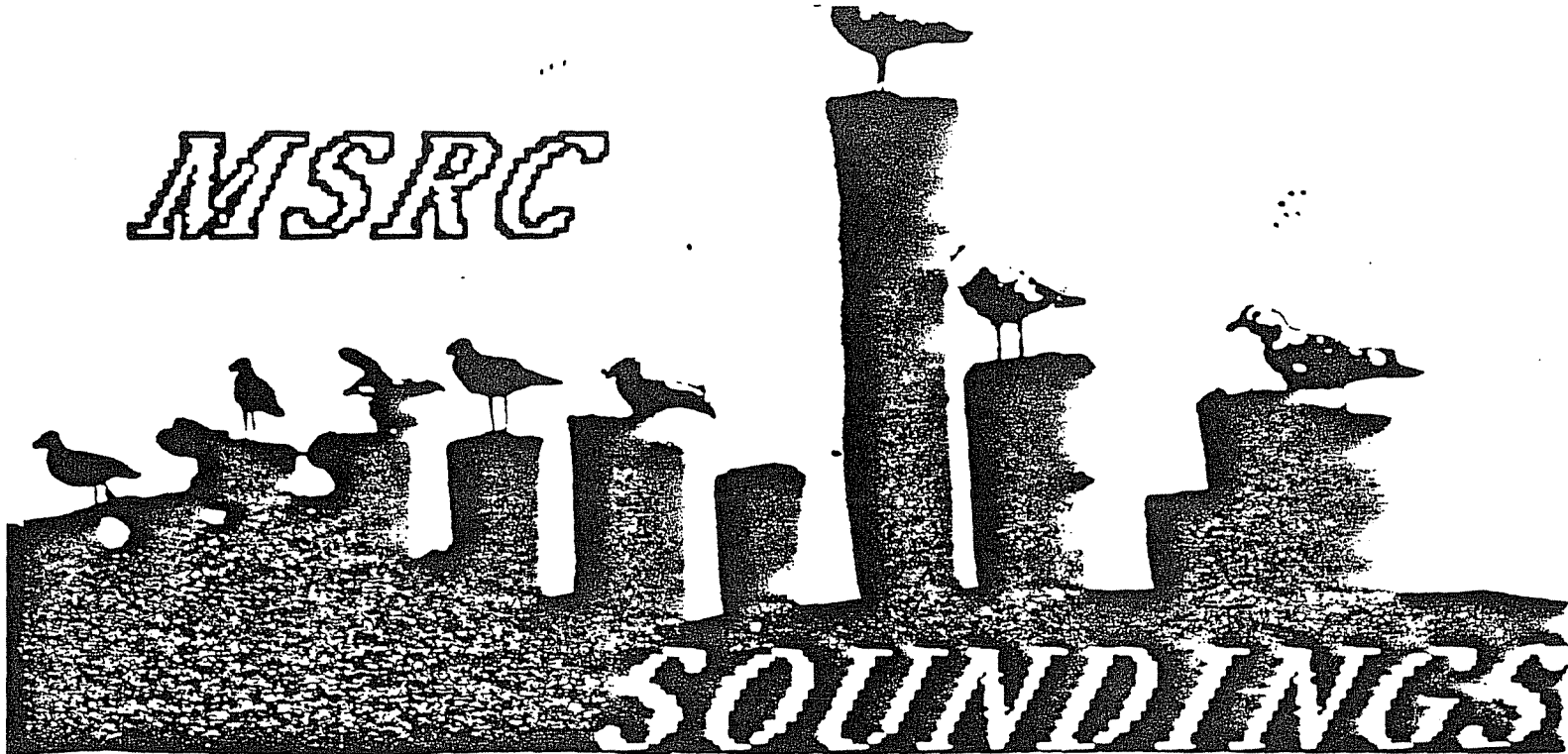
0900 Executive Committee Meeting, Endeavour 139.

1600 Friday Discussion Group, Challenger 163, "Degradable Plastics: Fact or Fantasy?" Vince Breslin and Boen-Li.





# MSRC



Vol V. No. 14

April 30, 1990

## Schedule of Events

Mon

Tue 1700 Soundings entries due.

Wed 1145 MSRC Weekly Seminar, Challenger 165, "Bioavailability, Metabolism, and disposition of dietary carcinogens in aquatic species," Anne McElroy, U. Mass, Boston.

Thu 1500 Special Seminar, Challenger 165, "The Distribution of Radiocarbon in the Glacial Ocean," Wallace Broecker, Lamont-Doherty.

1900 Special Seminar, ESS 001, "The Role of the Ocean in Climate Change," Wallace Broecker, Lamont-Doherty.

Fri 0900 Faculty Meeting, Challenger 165.

1600 Friday Discussion Group, Challenger 163, "AMASSEDs Cruise: A Video Starring Robert Aller and Jim Mackin, Peter Rude and Jim Rine with Special Appearance of Chuck Nitttrouer," Ian Stupakoff, MSRC.

Sat University Community Day - Come visit the MSRC booth!



### COMPUTER TRAINING

American Management Association is coming to Smithtown, NY for Personal Computer Training Week: 5 days of intensive hands-on programs July 11-15, 1990 at the Sheraton Smithtown.

### OUR UNDERWATER WORLD

\* The 20th Anniversary of Our World-Underwater will be held at the Hyatt Regency O'Hare in Chicago on May 11-13, 1990. A full weekend of the latest info. regarding all aspects of our underwater world by experts.

### MEETINGS

\*Call for papers for the 1991 International Oil Spill Conference (Prevention, Behavior Control, Clean-up) will be held at the Town and Country Hotel in San Diego, CA on March 4-7, 1991. Deadline for papers is June 1, 1990.

\* The American Fisheries Society will be holding its annual conference and trade show, 27-30 August 1990, at the Hilton Hotel, Pittsburgh, Pennsylvania.

### SUMMER POSITION AVAILABLE FOR MSRC GRADUATE STUDENT

Marpol V Recycling Program at PJ Harbor is looking for a person to man an education display 1-6 pm Friday-Sunday and holidays on monitoring recyclable waste streams. Possible continued support for the fall to analyze data and write summary report. Memorial Day through Labor Day: \$6.50 hr: max: 20h/week; 14 weeks. If interested, contact: Doreen M. Monteleone 2-8664.

### RECRUITMENT NOTICE

\* The NMFS, Honolulu Laboratory is seeking a Fishery Biologist (Research GS-12). The incumbent will serve as a Program Leader of the North Pacific Driftnet Impact Assessment Program in the Pelagic

### KEEPER OF THE CANS

Whoever has responsibility for collecting the soda cans/bottles in the lounge, please see that they are removed on a weekly basis. Thank you.

### REMINDERS

Please sign-up for the MSRC clean-up on May 15. All participants will be invited to a BBQ in July.

Time sheets are due May 15 for research supported personnel and all State professional staff. Please give time sheets to Christine.

State-supported faculty should sign the roster next to the check box in the Main Office in ink by May 15.

### PAPERS

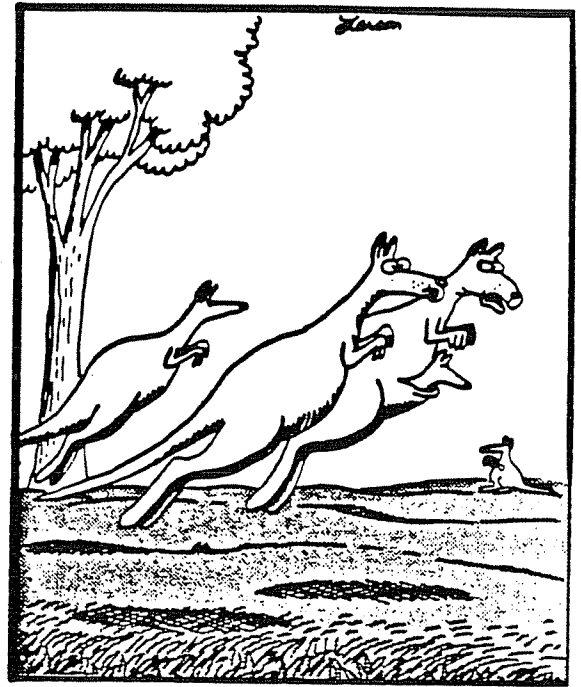
The following papers arrived, but there was no indication who requested them: "Formulas for Velocity, Sediment Concentration and Suspended Sediment Flux" by Moffield and Lavelle. "Sediment transport formulas from log-velocity" by Moffield and Lavelle. "Experimental investigation of shallow..." by Babarutsi, Ganoulis, Chu.

### KEY PROCEDURES

1. Students are charged a \$10 deposit on each key they request.
2. Faculty/Staff are not required to leave a deposit. If a key is lost, there will be a \$10 fine.
3. If a student requests a key to his/her supervisor's office or lab, they need written permission form that supervisor and a \$10 deposit will be required (the key can not go under the supervisor's name).
4. All keys must be distributed from Bill Wise's Office between 2:00 pm and 4:00 pm from Christine (or Bill if Christine is unavailable). Keys will not be left in mailboxes.



Resources Investigation, Honolulu Lab. The program collects, analyzes, and reports info concerning the North Pacific high-seas driftnet fisheries of Japan, Taiwan, and Korea and carries out a research program to assess impacts of these fisheries on marine resources of interest to the US.



"Just jump, fool!... You don't have to go,  
"Boing, boing, boing!"



# GRADUATE STUDENT RALLY

MAY 2<sup>nd</sup>  
(1 PM)

IMPORTANT ISSUES:

## ① PARKING FEE

AS OF FALL 1990 YOU WILL PAY

\$130. per year/per car

## ② SUBSIDIZED HEALTHCARE

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DO WE WANT THINGS TO CHANGE?

BE THERE!!!





# MSRC



July 1990

## SUMMER ISSUE

As you probably know, MSRC hosted the annual meeting of the New York State Marine Education Association in early June. The collaborations between elementary and secondary school teachers and researchers were productive and NYSMEA hopes to continue these and to expand them by recruiting some MSRC people to membership in NYSMEA. Applications are in the front office.

Friday Discussion Group has been having a special summer seminar series at 12:00 noon in Challenger 165. Please see the attached schedule.

All of us at MSRC wish to extend our best wishes to Anne West and Arnoldo Valle who were married on June 29th.

Best of luck to Sarah Horrigan who will be leaving MSRC for a Congressional Fellowship in Washington, D.C.

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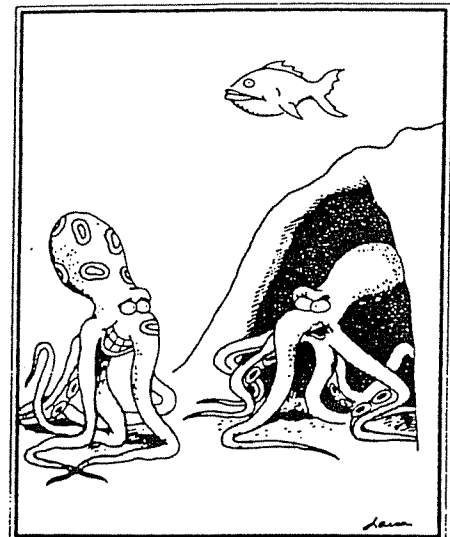
Please leave your Soundings entries in Eileen Goldsmith's mailbox.



## JOB OPENINGS

\* **Sea Grant College Program**, School of Ocean and Earth Sciences and Technology, UH Assistant Extension Agent A-III, West Hawaii. Duties are to plan, organize and conduct and on-going extension program aimed at identifying opportunities and solving problems of the ocean user community in West Hawaii.

\* **Assistant Marine Scientist** University of Rhode Island, Gulf Stream - Jet Stream Dynamicist. Require Ph.D. in meteorology or physical oceanography. Thorough experience with digital data processing and analysis required (FORTRAN and VAX-VV preferred).



"Oh yeah? ... And I suppose you got those suction marks at the meeting, too!"

## MARINE POLICY FELLOWSHIPS

\* **Sea Grant** - Applications for Knauss Marine Policy Fellowships are now being accepted from graduate students in marine-related fields. Applicants must be enrolled in a master's doctoral or professional program in a marine-related field at an accredited institution of higher education. Contact Sea Grant or Robert Shephard, Director, National Sea Grant Federal Fellows Program, 1335 East-West Highway, Silver Spring, MD 20910, (301) 427-2431.



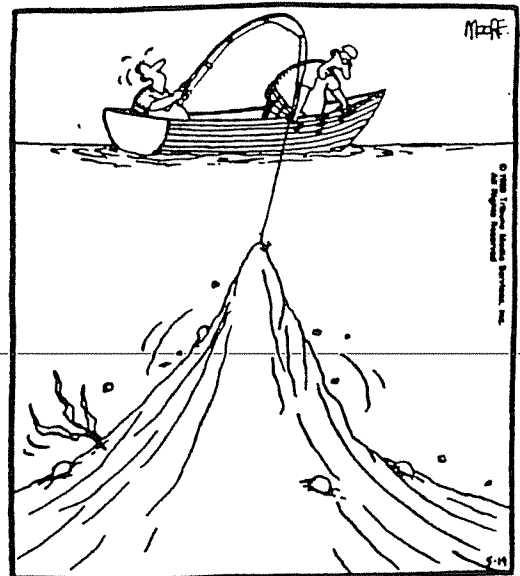
The  
**picture  
place**

a place to buy & develop film/ prints at  
extremely competitive prices!  
**NEXT DAY DELIVERY!**

The Picture Place is located in the Stony Brook Union Lobby  
(next to the Information Desk)

**call 2-0364**

Department of Student Union and Activities/ Executive Area of Student Affairs



"Ease up, Tom. You've snagged the bottom."



**SUMMER FRIDAY DISCUSSION GROUP    12:00 NOON**

<b>DATE</b>	<b>SUBJECT</b>	<b>SPEAKER</b>
<u>JUNE</u> 1	Semester Break	
8	Meandering through Asia	Charles Wurster
15	Three Ends of the World in Three Months	Ian Stupakoff
22	From I to I, From Volcano to Volcano	Serena Cenni and Sigren Jonasdottir
29	Snakes and the Search for Human Fulfillment	Bill Wise
<u>JULY</u> 6	Hong Kong and Macau - The Geese That Lay Golden Eggs	Mário Vieira
13	South African Safari	Bill Peterson
20	Under the Volcano - Mt. St. Helens Memories	Marie De Angelis
27	The Antarctic, Or How to Get Frostbitten, Drunk and Sunburned at the Same Time	Geoff Pierson
<u>AUGUST</u> 3	(tentative) - Encore - Snakes and the Search for Human Fulfillment	Bill Wise
10	Germany and Austria	Jeri Schoof
17	Bay of Fundy's Ups and Downs	Jim Rine
24	Meandering through Asia - Part II	Charlie Wurster

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# MSRC



August 1990

## SUMMER ISSUE

Reminder - The next faculty meeting will be held on Tuesday,  
August 28th at 9:00 AM in Challenger 165.

There has been changes to NSF's Proposal Review System, see the  
attached NSF memo.

Friday Discussion Group has been having a special summer  
seminar series on Fridays at 12:00 noon in Challenger 165.  
Check seminar bulletin board for topics.

Congratulations to Jim Mackin on being selected to serve on the  
editorial board of the new Journal of Marine Systems.

Best of luck to Mario Vieira who will be leaving MSRC for a  
position at the Naval Academy in Annapolis, MD.

## JOB OPENINGS

\* U.S. Army Corps of Engineers Environmental Branch, New York City. 3 openings for October 1st starting date - GS7-11, salary range \$20,000-30,000 + bonus for oceanography. Contact: Mr. Len Houston at 212-264-4662.

## INTERNSHIPS

The Student Conservation Association announces its 1990/91 Winter/Spring, expense-paid, professional internships. Twelve-week positions begin between November 1, 1990 and April 30, 1991. Submit applications prior to September 15th. Please see the Main Office for a complete listing of the positions.

## POSITION WANTED

\* The following resume is in the main office.

Kenneth Matulewski - B.S. in Biology, Cornell University. Recent graduate looking to do lab and field work before applying to graduate program.

## In the Bleachers



Ninja Trout.

## MARINE POLICY FELLOWSHIPS

\* Sea Grant - Applications for Knauss Marine Policy Fellowships are now being accepted from graduate students in marine-related fields. Applicants must be enrolled in a master's doctoral or professional program in a marine-related field at an accredited institution of higher education. Contact Ruth Tompkins, Sea Grant, Rm 143A, Dutchess Hall, 632-6908. Deadline September 7, 1990.

## NEW PROPOSAL DUE DATES FOR NSF OCEAN SCIENCES

NSF has changed the target dates for proposal submission from three to two per year. The new target dates for unsolicited proposals to the Ocean Sciences Research Section will be November 1, 1990; May 1, 1991; November 1, 1991 and May 1, 1992. This replaces the previous 3-times per year target dates of February, June and October.

## CONFERENCE ANNOUNCEMENT

Earth Observations & Global Change Decision Making: A National Partnership. Fall Conference, October 23-24, 1990, National Press Club, Washington, DC.



## CLASSES

The Geochemistry Seminar has been cancelled in the Fall. Students might consider taking one of the other specialized courses. Geochemistry Seminar will be offered in the Spring 1991.

Please register for the classes you're interested in taking this fall. Don't wait until classes start. Although we intend on teaching all these courses, instructors may cancel classes with low (or no) enrollment. If you do not want to register now at least let the instructor know your interested. In particular, Mary Scranton sent out a notice for "Global Change", if your thinking of taking this course please let Mary or Henry Bokuniewicz know. Also, Chris Zeppie has offered to give "Environmental Law and Regulation" in the fall if there's sufficient interest. It was cancelled last spring so if you want to take this course please let me know immediately.

Here is a list of students entering the Program in the fall who would be interested in joining others in making arrangements for housing. You might call to see if you can coordinate your plans.

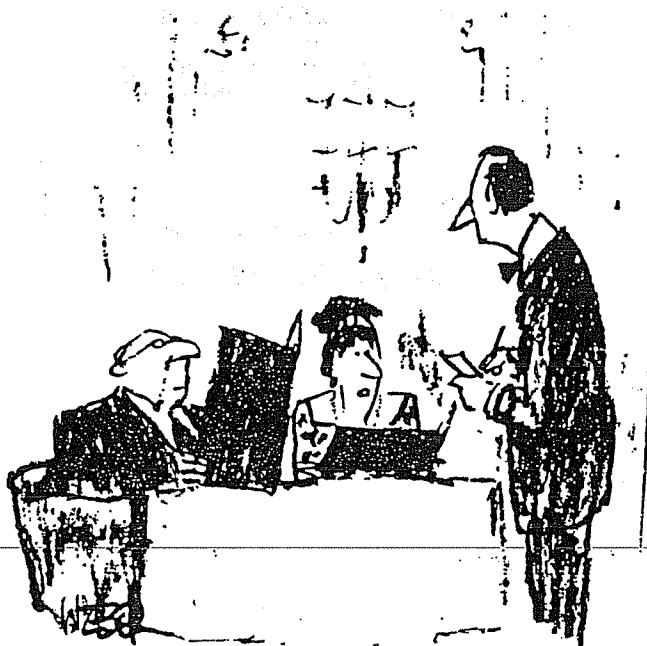
Joseph Allen  
2603 E. 10th St., Apt. #5  
Greenville, NC 27858  
(919)752-4391

Susan Bauer  
14 Belknap St., Apt. #3  
Somerville, MA 02144  
(617)625-8923

Robert Johnston  
6 Anvil Lane  
Levittown, NY 11756  
(516)731-6300

Bjorn Larsen  
1696 Dayton Ave.  
St. Paul, MN 55104  
(612)644-8716

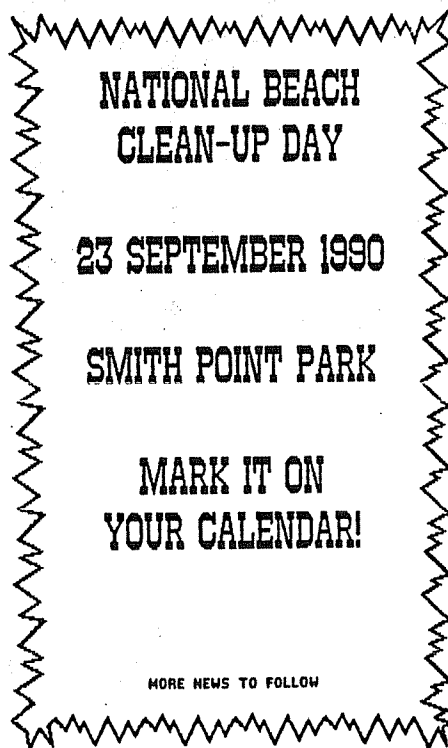
Michael Steinberg  
72 Ballard Circle  
Holbrook, NY 11741  
(516)981-3556



"I'll have some fish, while the poor things are still around."

**National Beach Cleanup Day** is Sunday, September 23, from 10:00 until noon. MSRC is participating in this event, and as many of use as possible should show up at Smith Point County Park to do our part. Last year **29 beaches** in New York were cleaned and documented. Over **700** people collected **9,498** pounds of debris from eight miles of shoreline. This year, the debris collected will also be recycled. This can be a significant contribution to our local environment.

Please join us. Look for a sign-up sheet outside the mailroom. Meanwhile, pick up one of the National Beach Cleanup Day fliers you see around the Center with the colored satellite photo of planet Earth.



NATIONAL SCIENCE FOUNDATION  
Office of the Director  
WASHINGTON, D.C. 20550

Notice No. 109

July 17, 1990

IMPORTANT NOTICE  
TO PRESIDENTS OF COLLEGES AND UNIVERSITIES  
AND HEADS OF OTHER NATIONAL SCIENCE  
FOUNDATION GRANTEE ORGANIZATIONS

Subject: Changes to NSF's Proposal Review System

This notice advises proposers, reviewers, administrators of proposing organizations, and the public of three important changes to NSF's proposal review system. It also describes the authority of NSF program officers to resolve matters raised by reviewers before NSF acts to award or decline a proposal. NSF will now provide:

- (1) an opportunity for Principal Investigators (PIs) to suggest names of persons who should not be asked to review their proposals;
- (2) additional information to PIs whose proposals have been declined about the context and reasons for the declination; and,
- (3) guidance for PIs and their institutions who wish to request reconsideration of declined proposals on the basis of the substance, as well as the process, of the review.

The changes described below have been incorporated into the attached revision of the Foundation's Grant Policy Manual and will be included in the next edition of the brochure containing application forms and general information (known as Grants for Research and Education in Science and Engineering).

Reviewer Recommendations From Proposers

For some time the Foundation has invited PIs to suggest names of persons especially well-qualified to review their proposal. PIs may now also suggest a brief list of persons who should not be asked to review a particular proposal. NSF program officers will honor such requests where possible and if promptly made, and may consult with the PI regarding the reasons. Selection of reviewers remains fully within a program officer's authority and discretion.

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## Additional Information About Declinations

More than two-thirds of proposals to NSF are declined, often for budgetary and programmatic reasons not directly related to the research or educational merit of specific proposals. PIs receive verbatim copies of the reviews of their proposals (and panel summaries where panels have been used), and are encouraged to contact the program officer if further information is desired. Effective August 1, 1990, each PI whose proposal is awarded or declined will also receive a written description of the process by which his or her proposal was reviewed and the context of the decision (such as the number of proposals and awards, and information about budget availability). If the proposal was not reviewed by a panel, or if the panel summary does not clearly explain the basis for declining the proposal, the PI will receive an explanation for the declination with the above documents or separately by letter, telephone or electronic mail.

## Clarification of Reconsideration Policy

Under existing policy, a PI may request additional information from the relevant program officer about the declination of his or her proposal, or its return as inappropriate for NSF review. If not satisfied with the program officer's explanation, the PI may ask the cognizant Assistant Director to reconsider the action; if still not satisfied, the PI's institution may ask the Foundation's Deputy Director for further reconsideration.

Although the wording of that policy did allow for reconsideration on the basis of the substance of the decision, it was widely interpreted to pertain to the process of review only. The wording has been revised to make clear that the PI may ask the cognizant Assistant Director to determine whether the proposal received a review that was fair and reasonable, both substantively and procedurally.

The request for reconsideration must be in writing and received within 90 days of the date of the declination letter. Any further request to the Deputy Director must also be in writing and received by the Foundation within 60 days after the Assistant Director has notified the PI of the outcome of the initial reconsideration.

The program's budget, its priorities, and NSF-wide policies and priorities at the time of the decision will be taken into account when the action is reconsidered. As before, no revisions made to a proposal after declination will be considered in connection with a reconsideration. Also as before, a revised proposal that addresses reviewers' comments may be submitted for a new review under the standard procedures in lieu of a formal reconsideration request.

The revised wording also makes clear that prior to a reconsideration request the PI should contact either the program officer or the appropriate division director for additional discussion of the reason(s) for the declination.

Additional Topic: Handling of Matters Raised by Reviewers

Reviewers sometimes raise scientific, administrative or other matters that should be resolved before the Foundation awards or declines a proposal. In cases where action on the proposal would be significantly affected, program staff are to contact PIs for additional information in order to resolve the matter within a reasonable time before recommending whether to award or decline the proposal. Program staff are directed to refer any allegations of fraud, plagiarism, misconduct or similar activities to NSF's Office of the Inspector General.

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End of Notice



# MSPC



Vol V. No. 19

September 3, 1990

Schedule of Events  
September 3-9, 1990

Mon		Labor Day -- Take the Day Off and Enjoy!!
Tue	1700	Soundings Entries Due for Next Issue.
Wed	0900	Reference Room Committee Meeting (End. 139) Ash Forum - <u>By Invitation Only</u> (Challenger 165)
	1145	No Seminar This Week.
Thu		
Fri	1530	New Student Picnic - Volleyball Court

### WELCOME!

A sincere welcome to our New Students. Soundings is a weekly newsletter used to keep everyone up-to-date on events happening at the Center. Notices of deadlines for various awards, opportunities for fellowships, conference announcements, and other news items are included, as space and time permits. If there is anything you would like placed in Soundings, please place a typed copy in Jeri Schoof's mailbox.

### HELP!!

Last year Irma Lagomarsino typed and assisted in editing Soundings. She has graduated and no volunteer has stepped forward to replace her. I can't do this all by myself. If you enjoy seeing Soundings each week (or if not enjoy but find useful) please volunteer to help.

Jeri Schoof

### FUNDING OPPORTUNITY

The U.S. Geological Survey is requesting proposals for its Under the Water Resources Grant Program. Deadline is November 20. Info is in the Main Office

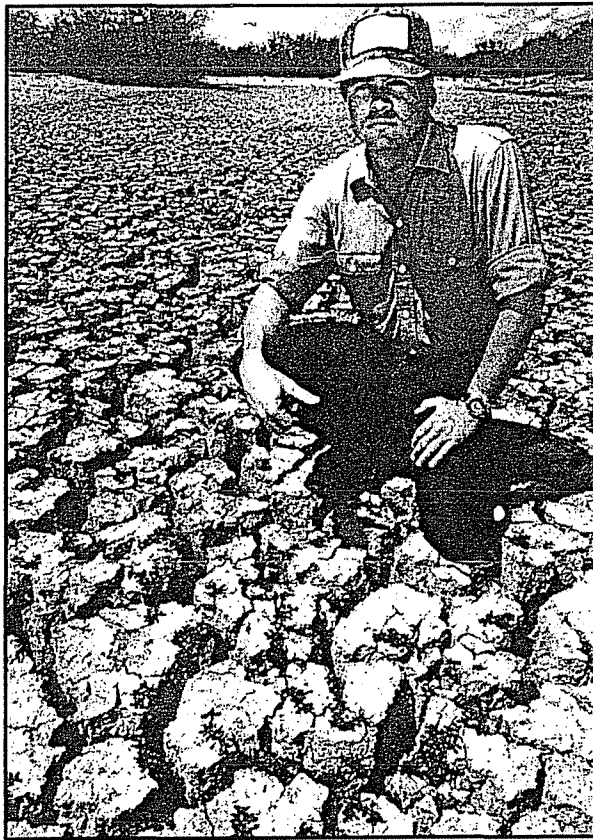
### THANKS

All of us wish to thank Cliff Jones and his crew - Lei Bao, Winston Burrell, Patrick Dooley, Steve Papa - for the great job they did in cleaning up MSRC's buildings.





Top: Steve Papa, Cliff Jones, Pat Dooley  
Bottom: Lei Bao, Winston Burrell



Hot Enough For You?

Chuck Nittrouer mourning the drying up of the  
Amazon River due to Global Warming.

Submitted by M. Bowman

**NATIONAL BEACH CLEANUP DAY**

**SEPTEMBER 23, 1990 10 am**

**Smith Point County Park, Shirley  
at the end of William Floyd Parkway**

**COME SPEND A COUPLE HOURS WITH US &  
CLEAN ONE OF OUR BEAUTIFUL OCEAN BEACHES**

**FREE T-SHIRTS. PLEASE BRING GLOVES AND BUCKETS.**

**sponsored by the MARINE SCIENCES RESEARCH CENTER &  
New York State Department of Environmental Conservation**

**sign up sheet outside mailroom**



# MSRC



Vol. V., No. 16

September 10, 1990

## Schedule of Events

September 10-16, 1990

MON

TUE 1700 Soundings Entries Due

WED 1145 MSRC Weekly Seminar - Challenger 165  
"Biogeochemical Pumps in the Ocean"  
James Bishop, Lamont

THU

FRI 1530 Friday Discussion Group - Challenger 163  
"The Assimilation of Elements Ingested by  
Marine Copepods"  
John Reinfelder, MSRC

173 Ad

## EMPLOYMENT OPPORTUNITIES

Ms. Louise Loudon is seeking a position as a microbiological research assistant. She received her M.S. in 1958 from Michigan State University. Her resume is on file in the Main Office.

## R.F. NEWS

"TO ALL FACULTY: the office of Research Services advises that the following new indirect cost rates should be used in all proposals to federal sponsors:

on-campus	52.3%
off-campus	31.0%

The modified total direct cost (MTDC) base against which these rates are applied remains the same, i.e. total salaries and wages, fringe benefits, travel, expendable supplies and consultant payments. We have also been advised that the fringe benefit rate on state-supported faculty salaries when these are used as matching funds in proposals is now 26.16%. Also, the new fringe benefit rate on the request side of the budget, for all faculty and staff, is 27.0%. Henceforth, please use these figures.

## MID-EAST PHRASES

Our correspondent from the Mid-East has given us some diplomatic phrases to use should you be travelling in that part of the world. We'll pass on a few of his suggestions with each issue:

BALLI, BALLI, BALLI!!!

What ever you say!!!

MATERNIER GEHRMEX AHLIEH,  
GHORBAN

The red blindfold would be lovely, excellency.

TIKEH NUNEH BA OB KHRELEH  
BEZORG VA KURUBE BOYAST INO  
BEGERMAN

The water-soaked bread crumbs are delicious, thank you. I must have the recipe.

ETEHFOR'AN, DEHRATEE, OTAGEH  
SHOMA MIKRASTAM KHE DO  
HAFTAHEH BA BONDANEH  
SHEEREEL TEEGZ

Truly, I would rather be a hostage to your greatly esteemed self than spend a fortnight upon the person of Cheryl Tiggs.

## MEETING NOTICES

The next faculty meeting will be October 16 at 9:00 AM in Challenger 165. Agenda items should be given to Jeri by October 8.

## NAT'L BEACH CLEANUP UPDATE

The 23 September beach cleanup sponsored by MSRC and NYS DEC will be held at Smith Point County Park at 10:00 AM. Volunteers are requested to bring gloves and buckets. There will be free T-shirts and other items given out by NYS DEC and WBLI radio station. Come join us in cleaning a beautiful ocean beach. Sign up outside the mail room.

Because WBLI radio station is promoting the beach cleanup, I am expecting many more people to attend. I'm looking for at least 4 MSRC personnel (faculty, staff, students, friends, spouses) to assist with on site organization. Please contact me by note, phone (2-8664), or in Dana 103 if you can help.

Doreen Monteleone

## SLIDES FOR A DAY, PLEASE

Over the next month or so, I have to give several public lectures on the Coastal Ocean. I'd like your help in putting together a set of slides to illustrate the range of coastal environments and the impacts of society on the coastal ocean.

I'd really appreciate it if you would loan me -- just long enough to have them duplicated -- any

slides that you think might be helpful. You would be appropriately acknowledged. If you have any slides, please loan them to me as soon as possible and include a brief description of where the slide was taken and what it shows. Thanks a lot for your help.

Jerry Schubel

## NEW LOCATION

Christine Murillo has moved her office to Endeavour Hall, Room 159. You can find her there from 8:30 - 12:00. She will continue to have responsibility for morning mail, morning faxes, and supplies. She no longer is responsible for the Reference Room.



### AROUND THE CAR

- 1** A single quart of motor oil can contaminate thousands of gallons of water. Never dump motor oil, antifreeze, transmission fluid or other automobile chemicals into road gutters, storm drains, or catch basins.
- 2** Store the waste oil in a container -- old plastic jugs are excellent for this purpose.
- 3** Do not mix waste oil with gasoline, solvents or other liquids. This contaminates the oil which may be reused, increases the volume of the waste, and may form a more hazardous chemical.
- 4** Find out if your local service station or car care center accepts waste oil. In New York, stations that change oil are required to accept waste oil.
- 5** Car washing -- like fertilizers, many car detergents contain phosphates. If you need to wash your vehicle, use non-phosphate detergents.
- 6** Use sand instead of salt on driveways and walkways in the winter.
- 7** Wash one section of the car at a time and rinse it quickly. Use a hose that is high pressure, low volume and has a pistol grip nozzle.

22 August 1990

To: MSRC Faculty and Students  
From: MSRC Awards Committee  
Subj: Upcoming awards

MSRC travel awards: Each year MSRC has available limited funds to assist graduate students in attending professional meetings. Criteria to be used in selection are as follows:

1. All requests must be received by the appropriate deadlines. For fall semester travel applications must be received by 1 October for travel after 1 September but before 1 February 1991.
2. Priority will be given to advanced students presenting research results. The student should be first author on the paper to be presented and should be personally making the presentation.
3. An abstract should be submitted with each request for funds if possible.
4. Need must be demonstrated. The student and/or advisor will be expected to provide partial travel support. This should be confirmed in a letter.
5. Priority will be given to students whose attendance at the meeting will be of value in searching for a job.
6. Funds will be provided for a maximum of one meeting per year per student.

Since the Graduate Student Organization also has funds for student travel, we recommend all students also contact them for support. It is important that this be done as soon as possible for summer travel as GSO may run out of money.

Kenneth P. Staudte Award: This award, given in memory of Kenneth P. Staudte, an alumnus of SUNY Stony Brook, is to facilitate innovative and important research which will contribute to the resolution of an environmental problem. Funds can be used for either field or laboratory studies, for either the MS or PhD degree. It is a competitive award and will be made on the basis of a short (3-5 page) proposal and a letter from the student's advisor. The proposal simply can be the student's approved thesis proposal to which has been attached a short budget. However, the following specific criteria will be used to evaluate proposals: a clear statement of the importance of the problem, evidence that the work can be completed successfully in a timely fashion, and evidence that the student is making a major personal contribution to development and completion of the project (in particular, we are looking for evidence of originality and creativity on the part of the student, not the supervisor). The deadline for applications will be 1 October 1990.

MSRC shiptime and electronic services awards: MSRC has limited funds to provide shiptime and electronic services (or advice) to students. Please contact Jeri Schoof to find out how to apply for these no cost services.

Ted H. Schubel Award: This award is made annually to assist an outstanding student in the conduct of his/her field work. The award is \$500 and must be used in support of field activities associated with the student's thesis research, either MS or PhD. It is a competitive award and will be made on the basis of a short (3-5 page) proposal and a letter from the student's advisor. The deadline for applications will be 15 May 1991.



# MSRC



Vol. V, No. 17

September 17, 1990

Schedule of Events  
September 17-23, 1990

MON

TUE            1700            Soundings Entries Due

WED            1145            MSRC Weekly Seminar - Challenger 165  
"Sedimentation in Antarctic Fjords:  
Oceanographic and Climatic Controls"  
Eugene Domack, Hamilton College

THU

FRI            1530            No Friday Discussion Group Due to Rosh  
Hashanah

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"In scientific scholarship, there are two patterns for a high status of life. One is to be the discoverer and inventor of something that reverberates through the current structure of knowledge, or at least to make consistent, significant contributions to the fundamental structure of problems of the field. The second, sometimes flowing from the first, but not always, is to become part of the political hierarchy of the field, influencing bureaucratically what one no longer can or never has influenced by the substance of one's scholarship."

Richard Lewontin

WCBS  
88  
EARTH  
GUIDE  
PETS

**8** Pet waste contains bacteria and viruses that can contaminate shellfish and cause the closing of bathing areas. Pet owners should pick up after their pets with a newspaper or scooper and dispose of the wastes in the garbage or toilet.

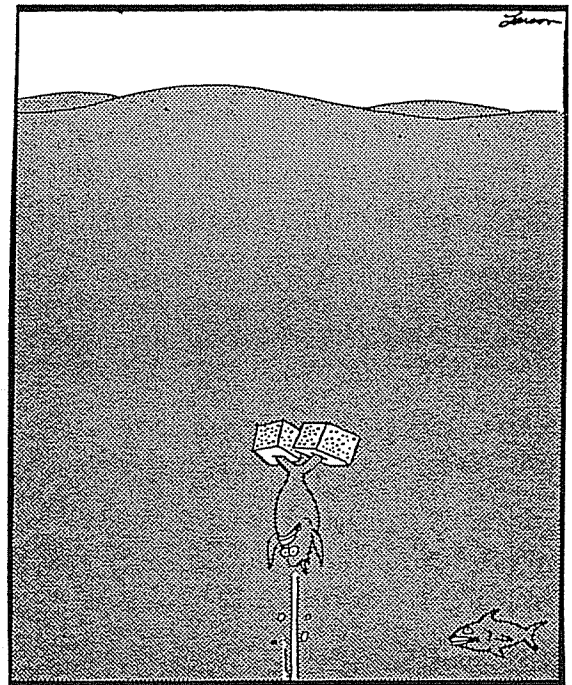
**9** Walk your pets in grassy areas, parks, or undeveloped areas; pet wastes on pavements will be carried by stormwater into local water.

**WATERFACT:**

*1/4 teaspoon of oil  
will form a film  
over about 2000 sq.  
ft. of the water's  
surface.*

*1 quart of motor oil  
contaminates  
250,000 gallons of  
water, more than  
30 people will drink  
in a lifetime.*

*The oil from 1  
engine (4-6 qts) can  
produce an 8-acre  
oil slick.*



Embedded in Styrofoam "shoes," Carl  
is sent to "sleep with the humans."



## **MORE USEFUL PHRASES WHEN IN THE MID-EAST**

AUTO ARRAREGH DAVATEMAN MANO  
SEPAHEL-HAST

It is exceptionally kind of you to allow me to travel in the trunk of your car.

FASHAL-E TUPEHMAN NA DEGAT  
MANO GOFTAM CHEESHAYEH MOHEMA  
RAJEBEH KESH VAREHMAN

If you will do me the kindness of not harming my genital appendages, I will gladly reciprocate by betraying my country in public.

KHRE JEPABEH MANEH VA JAYEH  
AMRIKAHEY

I will tell you the names and addresses of many American spies traveling as reporters.

## **A/V ETIQUETTE**

A number of people are failing to sign out the a/v equipment. When you remove a projector from the a/v cabinet, you are to sign your name into the book on the cabinet door. You also are to return the projector to the cabinet immediately after you are finished using it. If everyone cooperates, the 11th hour frenzy of looking for a projector for the class that starts in 15 minutes could be eliminated. There are sufficient projectors if everyone behaves responsibly.

## **ENVELOPES NEEDED**

If you have a surplus of the small intercampus envelopes, would you please share them with the main office? Thank you.

## **TIMESHEETS ARE DUE!**

August timesheets are due for all personnel or research payroll and for all staff on State payroll. If you did not get a timesheet, please see Christine Murillo.

## **MEETINGS**

The organization meeting of MSRC volunteers for National Beach Cleanup Day is Friday, Sept. 21, 1990 at 10:00am in Dana Conference Room 100.

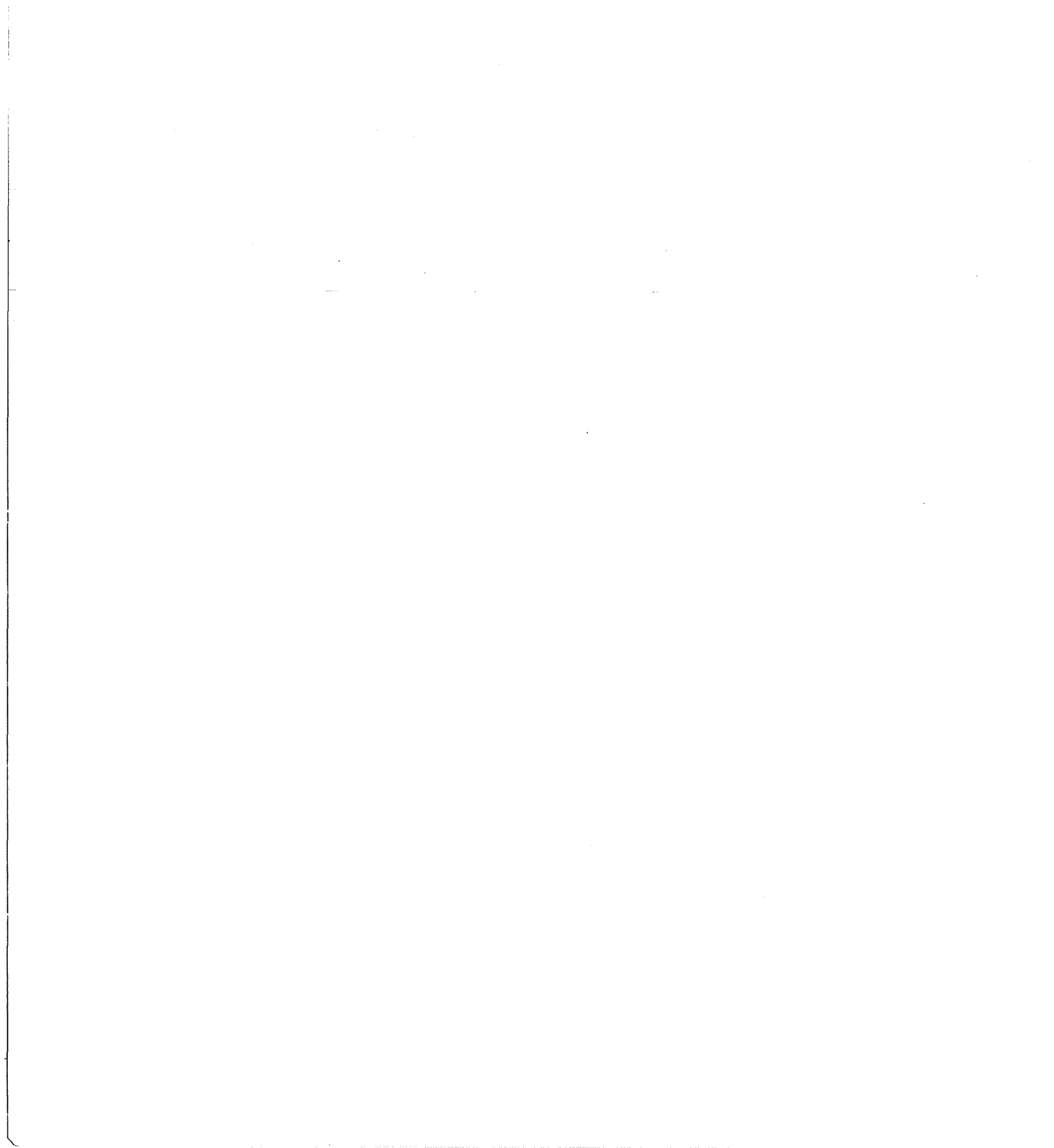
## **KEYS**

If you borrow a key from the main office you must sign it out and return it immediately after you have opened the room you need to get into.

## **WEDNESDAY SEMINARS**

Who would YOU like to have as a seminar speaker for spring semester? Please make suggestions to Val or Akira, and be sure to see Val about available dates before inviting anyone.

13



# MSRC



Vol. V, No. 19

October 1, 1990

## Schedule of Events October 1-7, 1990

MON

TUE 1430 Boathouse Dedication -- By Invitation Only

1700 Soundings Entries Due

WED 0930 Executive Committee Meeting -- Endeavour 139

1145 MSRC Weekly Seminar -- Challenger 165  
"Thorium Isotopes as Tracers of Particle Dynamics  
in the Surface Ocean: Results from JGOFS"  
Kirk Cochran, MSRC

THU All classes scheduled for Challenger 163 will be  
held in Challenger 165. New carpet will be installed  
in 163.

FRI 1530 Friday Discussion Group -- Challenger 163  
"Marking Otoliths of Striped Bass (Morone Saxatilis)  
Eggs and Larvae"  
Doreen Monteleone, MSRC

## NEW ARRIVALS

Dr. Steven Morgan, Assistant Professor in the Living Marine Resources Institute, has arrived. His office is Dana 117.

Dr. Martin Garrell of Adelphi University is spending his sabbatical leave working with the Waste Management Institute and Jerry Schubel on environmental problems of Eastern Europe and on composting applications. His office is Discovery 115.

Dr. Alberto Figueiredo, Professor at Universidade Federal do Para in Brazil, will work with Chuck Nitttrouer's group on the Amassed Project. He can be found in Endeavour 129.

Dr. Sergey Ostroumov of Moscow State University is being sponsored by the Moscow-SUNY Exchange Program to work with Jerry Schubel, Nick Fisher and Martin Garrell on environmental problems in Eastern Europe. His office is Endeavour 129.

\*We will try to have more in-depth profiles on each in future issues of Soundings. Meanwhile, please take the time to introduce yourselves and make our new comers feel welcome.

## SEFA

State employees contributing to SEFA may designate either the Stony Brook Hospital Auxiliary and/or Stony Brook Daycare as the recipients of their pledges. You will receive instructions on how to designate your pledges in the packet you will receive shortly from Human Resources.

## NEW ASSOCIATE DIRECTOR FOR RESEARCH!!

Please join me in welcoming our new Associate Director for Research, Professor Kirk Cochran. His three-year appointment begins immediately.

J.R. Schubel

## NEW RATES FOR FAX TRANSMISSIONS

There will be an increase in the hookup charge for fax transmissions. The new rate effective November 1, 1990 will be \$2.50 per hookup. The page charges remain the same: 50 cents for 2 pages within NY State; \$1.00 for 2 pages in continental US; price of phone call for international calls. (continued next page)



When placing fax calls, do not allow the phone to ring more than 6 times or the Center is charged for the phone call even if there is no answer. On international calls, the user will be charged for each call. If you repeatedly dial an international number and allow it to ring 10-12 times each time, each call will be billed to the Center and in turn, billed to the user. Only one hookup fee will be billed in these instances.

#### UNDERGRADUATE MINOR PROGRAM

There will be a meeting of all students participating in the Marine Sciences undergraduate minor program on Monday, October 1 at 4:30. The meeting will be held in room 201 of the Student Union. The purposes of the meeting are to update students on Marine Sciences activities and courses and to provide course-work counseling.



#### WATER CONSERVATION

**18** Buy a suds-saver washing machine when you need to buy a new machine.

**19** Bring your water conserving habits to school or work. If you see water being wasted, speak up. It's costing you money!

**20** Check for leaks out of doors, just as inside. Faucets, hoses, hose connectors and sprinklers should be checked regularly.

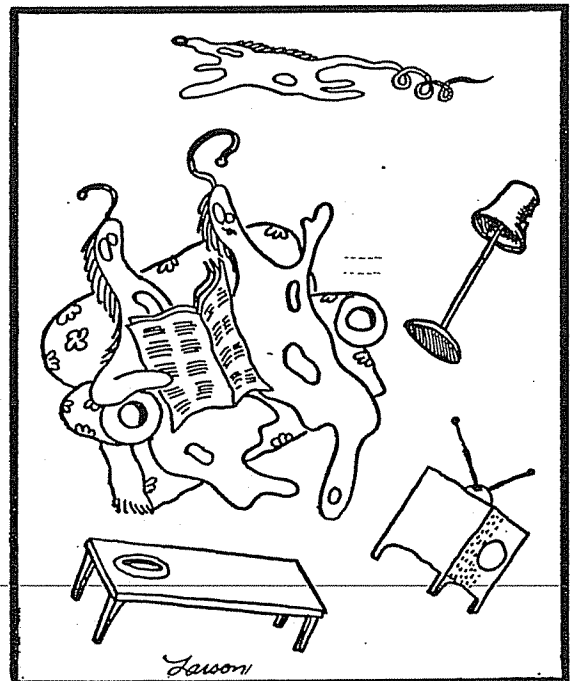
**21** Trickle irrigation is an effective way to water vegetable and flower gardens, and shrubs and trees. The water is applied directly to the plants' root zone through perforated plastic pipes. It can cut water use by 30-70% and slows the growth of weeds.

**22** When cleaning the sidewalk, driveway, patio or deck, use a broom instead of washing them with a hose to avoid wasting water.

**23** Install a time controlled sprinkler to avoid forgetting to turn it off.

#### WATERFACT:

*A dripping faucet can waste 20 gallons of water per day, and a leaky toilet can waste 200 gallons per day without making a sound.*



Things that live in a drop of water, and some of their furniture.

## UNDERGRADUATE MARINE SCIENCE CLUB

### RECYCLE BEACHES

by Chris Misciagno

Ever been to Smith Point County Beach? Well, the next time you go there you may notice it being a little cleaner compared to your last visit. That's because this past weekend, a few hundred people gathered there for National Beach Clean-Up Day and decided to do the impossible... CLEAN THE BEACH!

They were all well equipped. WBLI handed out "Save The Beach" T-shirts and provided music to work by in the size of a 30 ft. x 10 ft. radio. Representatives from SUNY Stony Brook's Marine Science Department were there to provide hats, T-shirts, and guidance on what to do. Groups were instructed to carry two garbage bags, one for recyclable items and the other for left over trash. They were given charts to keep track of the number of items found and were also given strict orders to "STAY OFF THE DUNES." With gloves supplied for sanitary measures, the crowd was off.

For two hours, people searched the beach for any traces of debris. No rubber tire was too big. No cigarette butt was too small. People seemed to be in a frenzy to get the beach clean. Even the little kids were involved. They crawled under boardwalks, ran up the dunes and seemed to find great enjoyment in cleaning up the place. Everyone pitched in and at the end of the two hours, all the bags were collected and weighed.

There must have been about five hundred pounds of trash collected and most of it could be recycled. I think a quarter of a ton less garbage will make a big difference on the appearance of the beach the next time you see it. So, the next time you are at a beach, remember: "Don't litter. Take care of our seashores, because every little bit really does count."

### LARGE PELAGIC FISHING IN NEW YORK WATERS

by Chris Romano

As surprising it may sound to some, there are fantastic opportunities for big game fishing right off of the south shore of Long Island. The big game species of fish are scientifically known as the large pelagic fish. Billfishes, tunas and some sharks are all large pelagic fish. The most popular species of billfish in New York area waters are white marlin, blue marlin, sword fish and, rarely, sail fish. The most popular tunas are the Bluefin, Bigeye, Yellowfin and Albacore. The most popular sharks are the Mako, Blue, Tiger and White.

Large pelagic fishing is important to the N.Y. economy; over \$90 million is spent yearly on off shore

fishing. The commercial value of tuna, swordfish and mako has increased from \$3.5 million in 1985 to \$5.5 million in 1988. Bluefin tuna (which may reach sizes between 1,000 to 2,000 pounds) will often command prices of \$20-30 a pound.

Several different methods are used to catch these species of fish. Commercial fishermen will use long lines (lines over 20 miles long with hundreds of hooks hung at regular intervals), harpoons and purse seine nets (used to capture entire schools).

Recreational fishermen use the rod and reel. A method known as chumming is sometimes used to catch tuna and is the primary technique for catching sharks. When this method is employed, a fishing boat will either anchor itself or start drifting while small pieces of cut-up fish are cast into the water to attract the prey. A large chunk containing a hook attached to a line is drifted out into the chum slick. Once the prey takes that chunk, the fun begins! Most of the large pelagics can make a run at 40 to 50 miles per hour in the water after getting hooked.

Another popular method is often used for tuna, billfish and some sharks. In this technique, the boat moves through the water at the normal cruising speed of the target species. Artificial lures or rigged bait (small fish or squid) are used as bait on the hooks.

### CLUB OFFICERS

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NATIONAL BEACH CLEANUP DAY  
23 September 1990

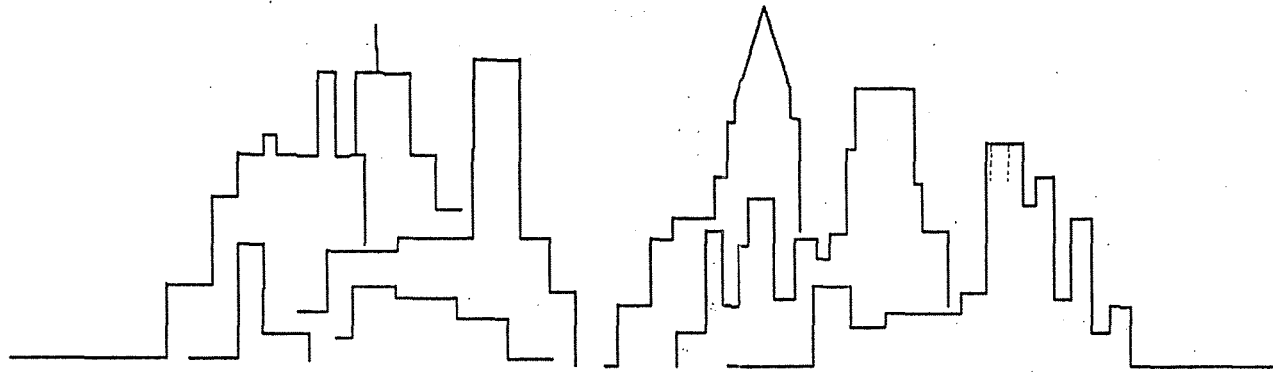
The weather cooperated and the 1990 Smith Point County Park beach cleanup was very successful. There were 220 volunteers who helped pick up litter. Of the 52 beaches cleaned in New York State, ours came in third for the number of volunteers, following behind Buffalo (525) and Jones Beach (315). The statewide totals were over 2800 volunteers, 71 miles cleaned and 41 tons of debris collected. That is a very impressive increase over last year's cleanup when the statistics were 685 volunteers, 8 miles and 9,498 pounds.

Smith Point volunteers covered 3.5 miles of beach and picked up a total of 1148.5 lbs of debris. We were able to recycle 318 lbs of cans, bottles and plastic containers. The dominant items collected (by number) were cigarette butts, bottles, cans, straws and plastic bags. The more unusual items were mattress springs, a ticking Times watch, a tire, a hubcap (not belonging to that tire) and an otter trawl. I'm happy to report no injured or sick animals or medically related waste were found.

WBLI radio station broadcasted the event and it was filmed for Channel 9 News appearing that evening. Suffolk County Executive Patrick Halpin also came to the cleanup.

I'd like to personally thank the MSRC personnel (and their families) who came down, Jim, Theresa and Leah Mackin, Leo Castro, Monica Rodriguez, Anne West-Valle, Hartmut and Linda Peters, Nighith Dhandha, Susan Bauer and Eileen Goldsmith. I'd like to mention that my family also was of great help -- my husband Robert Nyman took registrations and distributed bags, gloves and T-shirts and my sister Denise weighed recyclables. Finally, I'd like to thank WBLI radio station for their promotion of this event. They made announcements during the week before the cleanup that resulted in at least an additional 50 volunteers. They also broadcasted at the cleanup, gave out T-shirts and gift certificates for roses.

Doreen M. Monteleone



# METRO DANCE

DRESS FOR THE CITY AND DANCE ALL NIGHT



FEATURING D.J. YO J. ROBERT



saturday, october 6 9 p.m.  
challenger 165

TICKETS: \$3 IN ADVANCE (FROM SU, LISA, JOHN OR PENNY)

\$4 AT THE DOOR

ALL STUDENTS, FACULTY, STAFF AND GUESTS INVITED

# MSRC



Vol. V., No. 20

October 8, 1990

## Schedule of Events October 8-14, 1990

MON	1400	Physical Oceanography Journal Club - Endeavour 168
TUE	1700	Soundings Entries Due
WED	1145	MSRC Weekly Seminar - Challenger 165 "Plankton Studies in Buzzards Bay, MA: Multi-trophic Level Studies." Jefferson Turner, Southeastern Mass University
THU		
FRI	1530	Friday Discussion Group - Challenger 163 "The Kinetics of Pyrite Formation and the Control of Iron Concentrations in Sediments." Martin Schooner, ESS

## TURN OUT THE LIGHTS

If you are the last one to leave a room, please be sure to turn out the lights! Often the lights are left on in the Discovery kitchen and Endeavour lounge. As personnel of an environmental organization, we need to be more sensitive to wasting resources.

## LIMITED DISTRIBUTION OF SOUNDINGS

I only received a total of 32 responses to my survey of public opinion on reducing the distributions of Soundings. Perhaps that is the total number of readers. Anyway, there was not an overwhelming majority for either side.

It was pointed out by one reader that Soundings was designed to reduce the number memos and announcements which are placed in everyone's box and to keep the notices pasted on walls and doors to a minimum. That's true -- that was the intent. We'll keep distributing Soundings to everyone and to add to the incentive to read it, we are not going to distribute personal copies of seminar notices, meetings, etc. So, if you want to keep informed, read Soundings.

If anyone comes across a mass mailing from MSRC that could have been distributed via

Soundings instead, please bring it to my attention and I'll correct the miscreant.

Jeri Schoof

## FALL CLEANUP

MSRC personnel have participated for the last few years in a general cleanup of the Center's grounds and buildings -- tasks not usually done (at least on a timely basis) by University crews. Our last cleanup was May 15 and over 60 people participated. We will have our FALL CLEANUP on November 9. A sign-up sheet is on the door of the Main Office. Please sign up for two hours and help spruce up the Center.

## MAILROOM COMPLAINTS

University mailroom personnel have complained that the mail is not properly bundled. Joanne, Christine and Helen bundle the mail each day. If you are adding mail after it has been bundled, you should place the envelopes into the appropriate stack. Mail thrown in loosely will not be picked up.

## SEFA/UNITED WAY

You should have received a SEFA/UNITED WAY pledge card in your mailbox. If you didn't and want to make a pledge, please see

## ASSISTANTSHIP SOUGHT

Michael DiGregorio, Jr., a freshman at USB majoring in biology, is seeking a position in a faculty member's lab. If you have a position available, please contact him at 632-1330, Gray College A117 (G Quad).

## BLOOD DRIVE

On Tuesday, December 4, the University will hold its fall blood drive. A "captain" is needed to coordinate MSRC's participation. If you have donated blood and believe in the value of such donations, please volunteer to help by seeing Jeri Schoof.

## NEW STAFF

We are delighted to announce that Ms. Lori Palmer will join the Center as Director of Graphic Arts effective October 9. Lori possesses a very diverse background and her previous position was Director of Graphic Arts at the Stony Brook Museums. Please drop by her office (Endeavour 109) and introduce yourself.

## TIMESHEETS ARE DUE!

September timesheets are due for all personnel on research payroll

and for all staff on State payroll by **October 14**. If you did not get a timesheet and should have, see Christine Murillo.

## NEW HOURS

Christine Murillo will switch her hours for faxes, mail and copier problems from mornings to afternoons. She will handle each of these tasks from 1-5:00 each day and will work for Bill Wise from 8:30-12. Joanne Cosgrove will be responsible for faxes and copier problems from 8:30-1.

## COPIER CARE

We have received complaints from the copier service man that toner is not being properly inserted in the Kodak machine in the mailroom. If the machine calls for toner during normal work hours, you should see either Joanne Cosgrove (End. 145) or Christine Murillo (End. 159). If you use the copier evenings or weekends, you should get a lesson on how to properly insert toner. If problems continue with the copier, the toner will be kept in a locked cabinet and if the copier runs out of toner evenings and weekends, the machine will remain inoperable until the next workday.

me. Please take the time now to fill out your pledge card and be as generous as your means will allow. You can pledge as little as 50 cents a payperiod -- less than the price of a cup of coffee! Pledges may be designated to particular agencies. I choose to support agencies which assist the visually impaired. My support of the Guide Dog Foundation for the blind has helped provide a guide dog to Heidi Vanderwinckel. Heidi, is a social worker with the Veteran's Administration in Northport, where she provides counseling services to former prisoners of war. The Foundation provides mobility for the blind through the use of guide dogs. In addition to breeding and training the dogs, the Guide Dog Foundation provides a first-class 25-day residential training program for the blind students, where they work together with their dogs. It also provides follow-up services. All at no cost to the blind. I hope you will designate your gift to the Guide Dog Foundation (#0232). You can make a real difference in someone's life -- someone like Heidi.

Jeri Schoof



Heidi Vandewinckel, CSW & Murphy  
Veteran's Administration  
Northport, NY

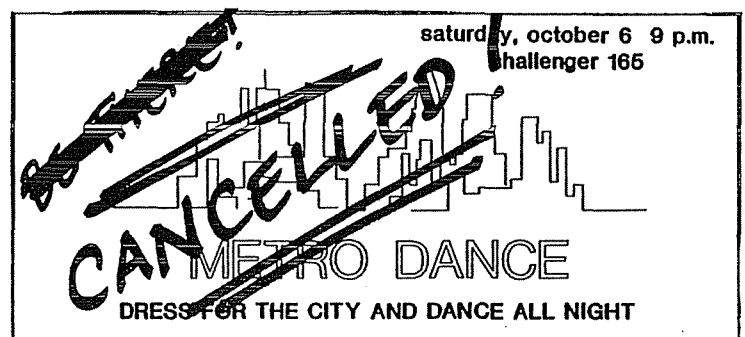
ALL THOSE PLANNING TO  
THE FIRST MSRC CAREER DAY .  
THOSE THINKING ABOUT IT

This is to remind one and all that the first MSRC Career Day will be held on 13 October 1990 (rain or shine) from 9:30 to 12:30. A number of former MSRC students in various occupations will describe their jobs and explain how they got the jobs in the first place. Career Day is free and all are encouraged to attend!

In addition to Career Day, there will be a picnic from 12:30 to 5:00 at MSRC. Alumni, current students and faculty will all be attending. There is a charge of \$5 per adult (children free). Please pay Mary Scranton ahead of time if you can. Otherwise at the picnic.

#### GRADUATE RESEARCH ASSISTANT WANTED

Val Gerard (Dana 107A) will initiate a 2-year Sea Grant project with support for one graduate trainee starting January 1991. The research will examine physiological responses of microscopic stages of kelp to environmental stress. Prior experience in algal culture and microscopic techniques is desirable but not required.





## Student Profile - Peter Merkle

Howdy! Ignoring the sage advice of a famous author, I am compelled to commit autobiography before the age of forty, so here goes: I was born in Greenville, South Carolina a long time ago. I don't remember it, since my folks moved soon after to the pastoral Southern Maryland countryside, which has since been engulfed by suburbia. There I grew up with my three brothers and four sisters, and we enjoyed all the benefits of rural life, although my brothers did get in trouble when they accidentally burned a barn down.

My fascination with things chemical began in the bathroom sink. As soon as I could reach the faucets unaided, I would prepare scientific experiments to discover the effects of mixing on hairspray, shaving cream, perfume, hand lotion, hydrogen peroxide, toothpaste, and Pepto-Bismol. Naturally, these investigations were conducted in the absence of light, so as to maintain secrecy. One day, after flicking on the lightswitch to examine more closely a particularly interesting reaction, a stray spark ignited my lab, and so ended my budding career as a lavatory chemist. Other memorable events of my childhood included a bison stampede (well, three bison) in the front yard, and a trip up the Chesapeake the day after Hurricane Agnes.

My parents were very interested in our education. Fortunately, this had little to do with schooling. My father was a physician, civil rights activist, and politician, in that order, and I often would accompany him on housecalls in the middle of the night. This was most educational. My mother read every word written in English since 1663, and books were in piles all over the place. Add dogs, cats, fish, and an occasional woodchuck in the closet and you have a pretty good idea of my Wonder Years.

At college (MIT) I studied chemical engineering and business. Along the way I managed to continue my experiments in several different kinds of labs in industry and academia: tRNA enzymes, conductive polymers and ceramics, silicon plasma-etching, and all kinds of epoxy chemicals. After college I worked first for Dow and then Ciba-Geigy, mostly in technical sales and service for advanced composite polymers ( I know what the Stealth bomber is made of but don't ask me ). Fortunately I decided to change careers, and took a break to hike the Appalachian Trail from Georgia to Maine in 1988. I highly recommend it! In my spare time I read, play darts and chess, and tune my guitar.

Here at MSRC, Bruce Brownawell has foolishly decided to accept me as a master's student: I have already spent all of his money. I'm interested in computer modelling, and my thesis work is about simulating the behavior of hydrophobic organic pollutants in the coastal zone. As you read this I am somewhere in the Sargasso Sea collecting copepods for pollutant analysis and, of course, continuing my chemistry experiments. If there's anything else you'd like to know, just ask!



## SHARKS ARE IN NEED OF PROTECTION by Chris Romano

Over the past decade, commercial and recreational shark fishing increased rapidly. The maximum sustainable yields for sharks in U.S. waters has been surpassed every year for the last 10 years. Heavy shark fishing in other areas of the world has led to the collapse of the shark fishery in those areas. It is quite likely that the U.S. shark fishery will also collapse if effort is maintained at its present level. Approximately 57% of the sharks' mortality over the past decade has been attributed to the commercial fishery and 43% to the recreational fishery.

There is a great deal of waste within the shark fishery. In commercial fishery, only 11% of the sharks caught were landed while 89% were discarded, dead, as bycatch in the swordfish, tuna, shrimp and squid fisheries. In the recreational fishery, 51% of the catch was landed while 49% was discarded dead. A practice known as "finning" has become popular over the last two years. Finning is the cutting off of the fins of the shark and then returning the remainder of the shark to the ocean.

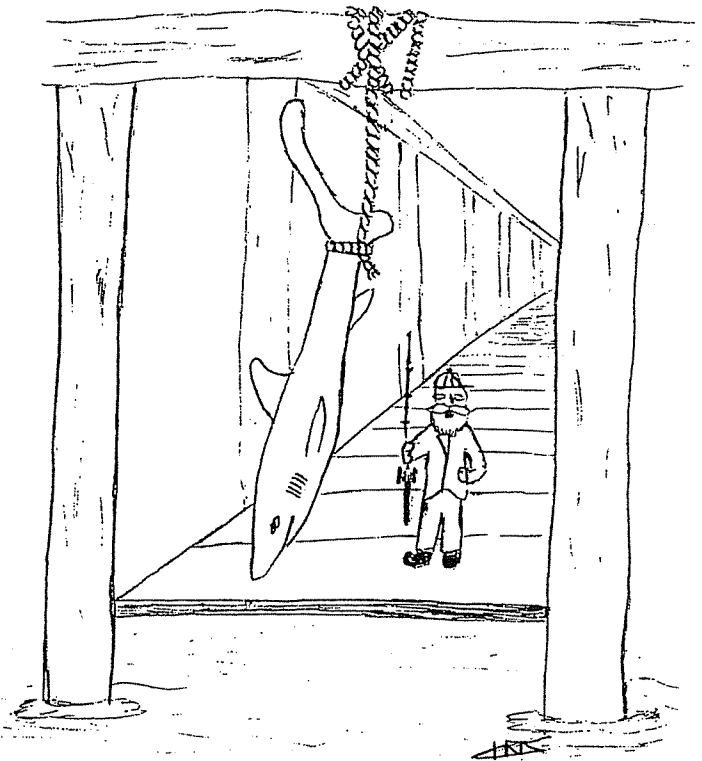
I work as a dockside observer for the U.S. Department of Commerce's National Marine Fisheries Service (NMFS). I attended several shark tournaments on Long Island this summer as part of my duties. Almost all of the sharks that I saw were under the minimum weight required by the tournaments' rules. Many of these "sport" fishermen were purposely bringing in young sharks just so they could have fresh mako steak. Most of the loot sharks that I have seen landed were too small to have ever reproduced.

Shark tournament all across the east coast are bringing in fewer and fewer fish each year. Some tournaments have even been cancelled due to this decline. Another sign of the decline of sharks in U.S. waters is that fewer sharks are being tagged under a volunteer program run by the NMFS Apex Predator Laboratory in Narragansett, Rhode Island.

The NMFS has come to the realization that the shark fishery is in dire need of corrective management. They have drafted a Fishery Management Plan to protect all 72 species of sharks in the U.S. Atlantic waters. The plan calls for a cap on the commercial catch and a bag limit on recreational catches. The plan also calls for the use of turtle excluder devices for the shrimp trawl industries to help reduce the shark bycatch. Reductions in the size of the tuna and swordfish fleets would also help limit bycatch.

Fishermen and dealers who are involved with the buying and selling of shark meat and fins would be required to obtain permits and submit operation reports to the NMFS.

I believe that the general public should be made aware of the importance of the Fishery Management Plan in maintaining sharks as a viable resource and in order to foster a better conservation ethic.\*



QUOTE FOR THE WEEK: "To Live On Land, We Must Learn  
From The Sea"  
-Author Unknown.

### CLUB OFFICERS:

<u>COPRESIDENTS:</u>	Chris Romano	981-4312
	Hiram Szeto	2-3287
<u>SECRETARY/EDITOR:</u>	Silvia Seu	2-1868
<u>TREASURER:</u>	Gary Romano	2-4482



#### HOUSEHOLD HAZARDOUS WASTES

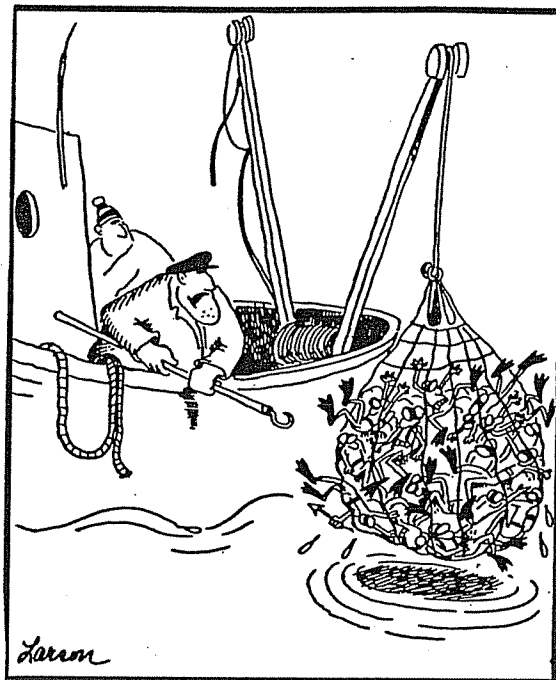
**24** Many household products contain hazardous substances that should be kept out of water supplies. Hazardous wastes improperly disposed of in a landfill or down the drain can pollute the environment through the ground-water, surface water and air. Use non-hazardous alternatives where possible.

**25** Buy only as much of a product as you can use. Store it carefully and keep the labels on so you can identify the product for proper use and disposal.

**26** Try to use up products. If you don't, dispose of them properly. Give unwanted chemicals to friends who can use them, if possible. Never dump excess products on the ground, into catch basins or down household or storm drains where they will be carried to local waters.

**27** Choose household cleaners carefully. Use the least toxic product available, buy only what you need. For example, use non-chlorine bleach to protect septic systems and groundwater. Products labeled with "caution" are considered the least toxic, those with "warning" are moderately toxic, and highly toxic chemicals are marked with the skull and crossbones.

**28** Clean with non-toxic items such as baking soda, salt, vinegar, ammonia, and elbow grease instead of bathroom and kitchen cleaners.



**"I'm not sure, Al, but we sure got  
into a mess of 'em."**

The following revision to Important Notice 107 was signed by Mr. Bloch before his departure from NSF and mailed this week.

There are some changes that were made in response to public comment on the original Notice 107 issued in September of 1989. To sum up the major changes--the EHR information is required only as part of the summary of prior NSF support in proposals for renewal of research projects and in progress reports for continuing grants. The new format for biographical sketches is for all proposals.

These changes are effective for proposals submitted on or after January 1, 1991, but grantees are encouraged to begin implementing the changes as soon as is practicable.

Notice No. 107  
Revision 1

August 29, 1990

IMPORTANT NOTICE  
TO  
PRESIDENTS OF UNIVERSITIES AND COLLEGES  
AND HEADS OF OTHER NATIONAL SCIENCE

## FOUNDATION GRANTEE ORGANIZATIONS

This revision replaces Important Notice No. 107, issued September 11, 1989.

Subject: Changes in NSF Proposal Format

The National Science Foundation is announcing two revisions in proposal format to underscore:

- the importance of education and human resources within research supported by the NSF; and
- the importance of quality of publications in the merit review process.

### Importance of Education and Human Resources

Among the criteria established in 1981 by the National Science Board for the merit review of proposals is the effect of the proposed research on the infrastructure of science and engineering. This criterion permits reviewers to consider the potential of the proposal to improve the quality, institutional distribution, or effectiveness of the Nation's scientific and engineering research, education and work force.

NSF is especially concerned about the development of scientists and engineers for the future. To assure there is adequate information for merit review, PIs submitting proposals for renewed support will be asked to describe the relationship of the completed project to the infrastructure review criterion.

### Importance of Quality of Publications in the Merit Review Process

Evaluation of scientific productivity places importance on the quality of published work rather than its quantity. To ensure this order of priority, NSF will now limit the number of publications considered in reviewing a grant application.

Reflecting these considerations, the following changes will apply to proposals submitted on or after January 1, 1991.

### Proposal Format Changes

#### 1) Education and Human Resources:

Each proposal for renewed support of a research project must include, as part of the required summary of results of the completed work, information describing its contribution to the development of human resources in science and engineering at the postdoctoral, graduate, and undergraduate levels. This may involve, but is not limited to, the role of the research in student training, course preparation, and seminars, particularly for undergraduates. Special accomplishments in the area of developing professional scientists and engineers from groups presently underrepresented should be described. Graduate students participating in the research should be identified by name.

Progress reports for continuing increments must also include the information described above, as appropriate.

2) Biographical Sketches: In lieu of providing a complete list of publications for the past 5 years, senior personnel need only include a list of up to five publications most relevant to the research proposed and up to five other significant research publications. Items in press may be included.

Patents, copyrights, or software systems developed may be substituted for publications.

Publications listed may overlap with the continuing requirement for a list of all publications resulting from and citing prior NSF support. Only the list of up to ten publications will be considered in merit review.

NSF also requests that senior personnel identify those scientists, other than co-authors already listed, with whom they have had a long-term association and/or with whom they have collaborated on a project or a book, article, report or paper within the last 48 months; and their graduate and postdoctoral advisors. This information will help avoid delays in the review process caused by inadvertent selection of inappropriate reviewers.

These changes will be incorporated into the next revision of Grants for Research and Education in Science and Engineering (GRESE).

Erich Bloch  
Director



# MSRC



Vol. V, No. 21

October 15, 1990

Schedule of Events  
October 15-21, 1990

MON	2000	AWIS Lecture, Math Tower Room 5240 "Women, Science and Policy: Reflections on a Year at NSF" Sharon Smith, BNL
TUE	0900	Faculty Meeting - Challenger 165
	1700	Soundings Entries Due
WED	1145	MSRC Weekly Seminar - Challenger 165 "Genetically-Engineered Living Biosensors to Detect Toxic Agents and Characterize Their Mechanisms of Toxicity." Michael DuBow, McGill University
THU		
FRI	0900	Legislative/Industry/Academic Forum Challenger 165 -- By Invitation Only
	1530	Friday Discussion Group - Challenger 163 "Meiofauna and Solute Transport in Sediments." Bob and Josie Aller, MSRC

## **EMPLOYMENT OPPORTUNITIES**

Three faculty positions are available at Washington University in St. Louis, Missouri: geophysics; regional geology and tectonics; planetary scientist. Deadline for application is November 30. See the main Office for more information.

## **SEFA/UNITED WAY**

Have you sent in your pledge card yet? If not, please do so now. It's an opportunity to help those less fortunate!!

## **NSF REPORT**

The Main Office has a copy of some recommendations suggested for changes in the NSF Proposal process. If you are interested, please request a copy and we'll put it in your mailbox.

## **CANDIDATE FOR PROMOTION TO ASSOCIATE PROFESSOR**

Dr. William Chittick of the Department of Comparative Studies is being considered for promotion to Associate Professor. All members of the University are invited to comment on his candidacy. Please send your comments to Dr. Robert Goldenberg in Comparative Studies.

## **OPPORTUNITY TO DO RESEARCH AT BERMUDA BIOLOGICAL STATION**

Dr. Kathy Burns, Adjunct Asst. Professor at MSRC, is seeking a student to work with her at the Bermuda Biological Station in relation to lipid chemistry of deep sea organisms. No stipend is available but room, board and lab fees would be covered. See Ed Carpenter if interested.

## **SPECIAL COURSE OFFERING FOR WINTER INTERSESSION**

Mar 550, Radioisotope Techniques in Biological and Chemical Oceanography, will be offered during winter intersession by Nick Fisher and Glenn Lopez. Tentative dates for this 3 credit course are 1-7-91 to 1-25-91. This course will instruct students in the theory and practice of radioisotope techniques used to study biological and chemical processes in aquatic systems. The course will be structured around several laboratory experiments conducted by the students. The agenda will include such topics as primary production, adsorption, absorption and allocation, and mineralization. Safe handling of radioisotopes and understanding the principles of measuring radioactivity will be stressed. The course will be limited to 12 students. Permission of the instructors is required. Students are required to supply their own lab costs.



## POSITION ANNOUNCEMENT: DIRECTOR OF THE NEW YORK SEA GRANT INST.

The State University of New York (SUNY) and Cornell University invite applications for the position of Director of the New York Sea Grant Institute, a cooperative program of these two universities.

### Responsibilities

The director provides overall leadership for the development, conduct and evaluation of the entire spectrum of research, education, communications, training and extension activities undertaken by the Institute. In collaboration with the associate Director/Extension Program Leader located at Cornell, the director carries out a variety of leadership and management responsibilities.

### Qualifications

The director must have distinguished record of scholarly accomplishments in a marine-related discipline, which would qualify him/her for a tenured appointment to the faculty of the Marine Sciences Research Center at the State University of New York at Stony Brook,. A doctorate or appropriate equivalent degree is required. Ability to communicate effectively with diverse audiences, both orally and in writing, is required.

Successful administrative and supervisory experience, knowledge of the sponsored research process, and an understanding of, and dedication to, university outreach or extension activities are essential. Familiarity with an existing Sea Grant program and the Sea Grant or Land Grant mission is also highly desirable.

### Application Procedure

Nominations and applications are invited. Applicants should submit a letter of application/interest, a current curriculum vitae, and the names, addresses and telephone numbers of three references, to:

Dr. J.R. Schubel, Chair  
NYSGI Director Search Committee  
c/o New York Sea Grant Institute  
Dutchess Hall  
SUNY at Stony Brook  
Stony Brook, NY 11795-5001

**Deadline for Applications is January 11, 1991**

OCTOBER

Fallen leaves.

Remnant tears shed by lonely trees.

No more cicada company of summer nights.

Just the restless whispering of fallen leaves.

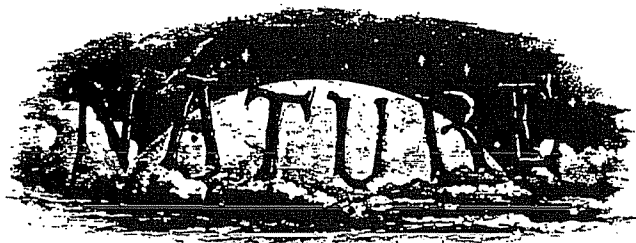
Fallen leaves.

Crunchy crackling gutterful for newbought boots.

Earthbrown with yellow/red half hid to catch the eye.

Daring dry before the rain and snow to come.

Val Gerard



### 120 YEARS AGO

IN New York, Science has for some time past been at a very low ebb. Unlike London or Manchester, that busy mercantile community has no time to spend on such apparently trifling matters as the propagation of scientific knowledge, and the acquisition of materials for scientific investigation. The only School of Science in New York is Columbia College; an old-fashioned brick building, in a quaint, old-fashioned square, formerly outside the town, now, by the rapid increase of building, quite enclosed and surrounded. The College-buildings form three sides of a quadrangle, and are long, narrow rooms lighted by windows in the sides. Three rooms are used as laboratories for practical analysis. Another room is the furnace-room, for assaying purposes; another is used for purposes of drawing, and there are numerous classrooms and lecture-rooms, but all sadly out of proportion to the size of the town.

Besides Columbia College, New York is now in a fair way soon to possess a very fine public museum. In the beginning of 1869 a bill was carried in the House of Congress to establish in New York a museum, under Government control, similar to the British Museum. This museum is called "The American Museum of Natural History," and it published its first report a little time ago. The fine collection of the Prince of Neuwied, formed chiefly in the Brazils and South America, has been purchased, and communications have been sent to all the United States consuls throughout the world to aid the museum by the collecting and purchasing of valuable natural history specimens in their several localities. We cannot leave the State of New York without noticing how the liberal founder of the Cornell University has made provision for practical and theoretical instruction in natural science. Laboratories, museums, herbariums, libraries of scientific works, have been either presented or bought; and by the scheme by which the students can work out the expenses of their education by their skilled labour, it is now possible for the very poorest artisan, or mechanic in America to obtain as valuable a scientific education as any given anywhere in the world.



#### HOUSEHOLD HAZARDOUS WASTES

- 29** Use sink baskets to prevent clogs, and plungers to fix them.
- 30** Keep household chemicals, batteries, paints, aerosol cans, and other hazards out of the landfill and coastal waters. Save all of these items for household Hazardous Waste Collection Day.
- 31** Read the label – know what you are buying, how to use it and what the potential hazards are. Once you buy something, you are responsible for disposing of it properly.
- 32** Do not bury leftover chemicals or their containers in your yard or garden.
- 33** Trade in old car batteries.

#### **WATERFACT:**

**14 billion pounds of garbage are dumped in the world's oceans every year, most of it in the Northern Hemisphere.**

**An International treaty (MARPOL Annex V) signed by Congress now prohibits the dumping of any plastics in our oceans.**

# MSRC



Vol. V, No. 22

October 22, 1990

## Schedule of Events October 22-28, 1990

MON

TUE        1600        Special Student Seminar - Endeavour 113  
                         "Environmental Problems and Biospherics"  
                         Sergei Ostroumov

                 1700        Soundings Entries Due

WED        1145        MSRC Weekly Seminar - Challenger 165  
                         "High Resolution Acoustic Profiling of  
                         Sedimentary Structures"  
                         Roger Flood, MSRC

THU

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FRI        1530        Friday Discussion Group - Challenger 163  
                         "Learning Phytoplankton Taxonomy in Italy"  
                         Jeng Chang, MSRC

## INVITATION TO SEMINAR

"Environmental Problems and Biospherics." New previously unknown facts on: 1) marine and river pollution and aquatic ecosystems in the USSR; 2) chernobyl and less known pre-chernobyl in 1957; and 3) atmospheric pollution. The seminar will be held on Tuesday, October 23 at 4:00 pm in Endeavour 113.

All students are welcome.  
Color slides.

Dr. S.A. Ostroumov

## VISITING SCIENTIST

Dr. Snejana Moncheva, a visiting scientist from Bulgaria, is working in Ed Carpenter's lab between October 17 and 30. Her visit is sponsored by the US National Academy of Sciences. If anyone would like to meet her, please drop by. She is interested in biology of phytoplankton.

## UNITED NATIONS DAY CELEBRATION

On Wednesday, October 24, the new GSO environmental organization - Global Action Plan for the Earth (GAP) - USB Chapter - is holding a major campus-wide event to

celebrate United Nations Day. From 11:30 to 12:30 there will be international speakers and entertainment focussing on our ability to instigate peace. From 12:30 to 1:00 they will show a video of the world's largest mass participation peace event - The First Earth Run - a 25 week global torch carry held in 1986. From 1:00 to 1:07 they will then join millions of people around the world for seven minutes of world peace. This is a time of silent reflection of world peace. During this time, guns are laid to rest and governments quiet. This powerful event will tentatively be held outdoors at the Staller Plaza on Main Campus. For more information, call John Nolan, founder and president of the USB Chapter of the Global Action Plan at 246-5620.

## NEW COURSE OFFERING

There will be a new course offering for interested faculty and advanced students. Perturbation Techniques Applied to Weakly Nonlinear Systems. It will be held on Thursdays from 2:05 to 4:05 pm. For more information see Akira Okubo or Malcolm Bowman.

## REMINDERS

The MSRC Fall Clean-up is scheduled for November 9, 1990. Please sign up on one of the sheets on the Main Office door. So far, the number of volunteers is very disappointing.

No dogs are allowed in any of the buildings on campus. A memo was received by the Provost's Office so let's try to abide by the rules.

## CONFERENCES

"The Hudson River as a Water Supply" is the theme of the Hudson River Environmental Society's Annual Meeting on November 2 at Marist College in Poughkeepsie, NY.

## COFFEE POT ETIQUETTE REVISITED

If you are having a meeting at the Center and wish to provide coffee for your guests, you may use the Center's coffee pots. However, making the coffee, shopping for supplies and cleaning up after your meeting are your responsibility.

## ELECTONICS FREEBIES

We are cleaning out the Electronics Shop and getting rid of a lot of stuff we have no use for. Over the next few months I will be listing potentially useful items in Soundings one week before I send them to the dumpster or State surplus. If anything listed interests you, stop by and take a look at it. Rules are:

- (1) Items are as-is, where-is. Faculty or staff person must be recipient-of-record for any inventoried equipment.
- (2) First-come-first-serve. You must remove items within one week.
- (3) Absolutely no back-room prospecting.

Tom Wilson

This week's freebie:

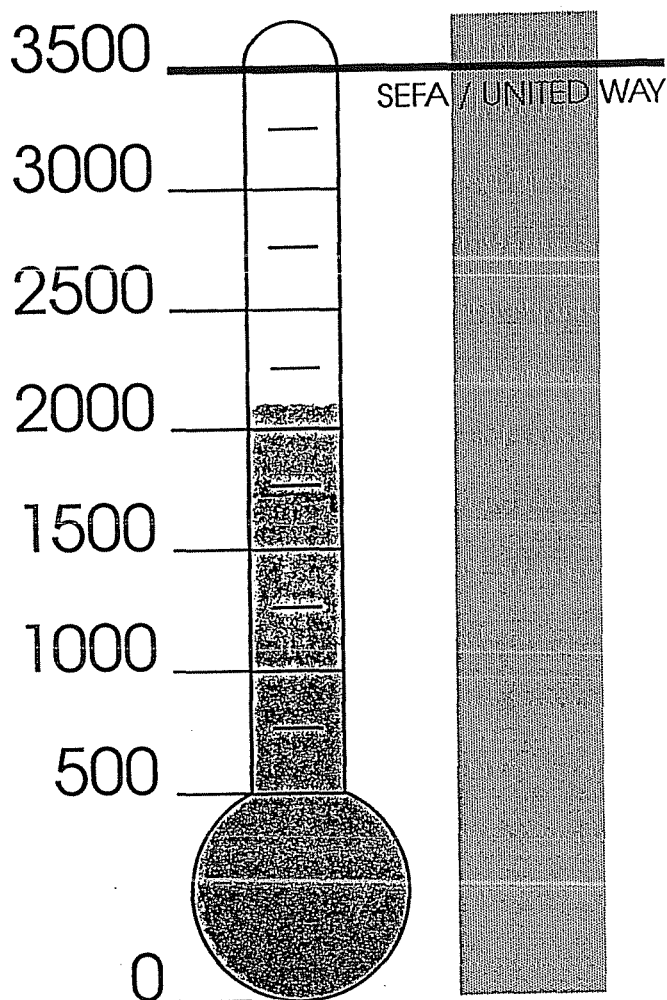
American Optical Rotary  
Microtome, Model 820.  
Apparently never used, still in  
the original box!!

## CORRECTION

MAR 550 students will supply  
their own lab COATS not lab  
COSTS. Sorry.

## SEFA/UNITED WAY

We have pledged collectively almost \$2200 so far. It's not too late to send in your pledge. Don't delay -- please do it NOW! You can designate up to four agencies as the recipient of your funds -- Stony Brook Day Care and the University Hospital Auxiliary are two such agencies.



## 88 EARTH GUIDE

### SEPTIC SYSTEMS

**34** If your home is serviced by a septic system, you know that proper maintenance will ensure the system works well.

**35** Have your tank inspected each year and pumped out every 3 to 5 years to remove solids and insure it's operating properly.

**36** Do not allow solvents or toxic chemicals of any kind into your septic tank. They may inhibit your system's ability to break down domestic waste or could leak into the surrounding environment.

**37** Don't use garbage disposals, they contribute unnecessary solids and grease to your septic system. Instead, recycle kitchen scraps by composting.

**38** Do not put grease down the drain (pour it into can with cover).

**39** Do not use your toilet as a garbage can.

**40** Septic tank additives may cause sludge and scum to be discharged untreated instead of being retained in the septic tank.

**41** Direct water from downspouts and roof, footing and basement drainage away from all types of sewers and septic treatment systems. Roof leaders, driveway drains or sump pumps that are connected to a sanitary sewage system are illegal. Disconnect them.

## 88 EARTH GUIDE

### SEPTIC SYSTEMS

**42** Do not build swimming pools near the septic system.

**43** Know the location of all components of your septic system, keep heavy vehicles away from the system.

**44** Do not plant trees or shrubs near drain lines since roots can clog them.

**45** Distribute your laundry chores throughout the week to avoid overloading the system on any given day.

### WATERFACT:

*Although seventy percent of the Earth's surface is covered by water, only one percent of the freshwater is suitable for drinking water.*

*183 gallons of water are treated every day for each person living in the United States.*

## SEA GRANT STAFF PROFILE

Ruth Tompkins

To begin with some vital statistics, I am happily married with four daughters and I'm the proud grandmother of five. A native Long Islander, I graduated from Smithtown High School with a major in business. My first job was secretary to the president of a lumber company. This was a great start, because as the only female in a male world, I was treated with courtesy and respect - maybe even pampered a bit. I was married in 1955 and, since Bill was in the Navy, we moved to Norfolk, Virginia.

This was quite an experience for a country girl who had been raised on a farm and had never been away from home. Shortly after I settled in, Bill was shipped out to sea for six months. I then took a job as secretary to the owner of an appliance store. It was there that I first took an interest in finance. The bookkeeper was on extended sick leave and I was asked to fill in. Believe me that is really learning the hard way.

While Bill continued his stint in the Navy, our first daughter, Debra, was born in 1957. Our second daughter, Cheryl, followed shortly in 1959. At this time I became a housewife and mother and enjoyed it immensely. Bill was discharged from the Navy and went to work for Polytech Institute. I returned to work for the same reason most people do--the need for money. I went to work as office manager for the W. T. Grant Co. After about three years there I became the credit manager. That was an interesting position. I had people cut up their credit cards and throw them at me; at one time I even was threatened with a gun! I left that position when our third daughter, Melanie, was born in 1965. Between that time and when our fourth daughter, Bonnie, was born (in 1973) I worked at part-time positions doing a variety of things.

Bill and I had always taken an active interest in church activities and Bill had decided to become an ordained minister. This meant giving up his full-time job and entering school, while I returned to work full-time. In 1979 I started working for the Research Foundation in the Grants Management Office here on campus. I assumed that it would be just an ordinary run-of-the-mill clerical position. What a surprise it was to learn that I would be monitoring funds received from all types of sources. But it was a challenge and I dug my heels in and really enjoyed the work. That was my first contact with the people at MSRC.

In 1981 Bill completed his training and became an ordained minister. At this time we moved to Watkins Glen, NY, where Bill continued his ministry till 1983. We then moved back to Long Island. I applied for and received my old job back at Grants Management and worked there until 1987 when New York Sea Grant moved to Stony Brook.

I applied for the position of fiscal officer at New York Sea Grant and was offered the position. I now am responsible for all the financial affairs of the Institute. When I came on board there were only two other employees and we were located in Discovery Hall. In December 1987 we moved to our present location in Dutchess Hall. As we now have seven full-time and two part-time employees, we must be doing something right! I can only speak for myself, but I am sure that all of my co-workers would agree that it is a great place to work. If anyone out there would like to know more about New York Sea Grant, come up and visit us sometime.

On October 1-5, 1990 I attended the annual conference of the International Association of Marine Science Librarians and Information Centers (IAMSLIC) which was held in Seattle, Washington with over one hundred marine science librarians in attendance.

The conference was truly international in scope. At my conference table the first day was a marine science librarian from Senegal, a librarian from the Fiji Islands, a librarian from the Academy of Sciences in San Francisco and a librarian from the Pacific Salmon Commission in Canada. It became clear that we all shared a common heritage and great resource - the world's ocean. Needless to say, friendships and lasting working relationships were made.

The theme of this year's conference was the breaking down of barriers to the free flow of marine science information - governmental, economical, language, bibliographical and institutional barriers, and barriers of nature hurricanes, fires, earthquakes, etc.

There were many common questions and complaints voiced among the librarians. There was almost universal agreement that some publishers have artificially raised the prices of certain journals to exorbitant levels. One such journal frequently mentioned was Marine Biology which will now cost almost \$2,000 for an annual subscription. As a result, the main library at Stanford University recently cancelled its subscription as part of a \$15,000 journal budget cut.

Plans for the future include the development of inter-library loan cooperatives and the development of CD-Rom technology and networking - one CD-Rom disc can hold up to 270,000 pages of conventional text.

Next year's conference will be in Galveston, Texas and I am hopeful that our own Marine Sciences Research Center can play host to an upcoming IAMSLIC conference.

Larry Herschenfeld



## MARINE SCIENCE CLUB ACTIVITIES

### Fluke Fishing by Chris Misciagno

Have you ever heard of a fuke? No, I don't mean the term used to describe "freak of nature" events (like getting a 90 on a physics exam). I'm talking about the elusive fish that played mind games with me as I tried to catch one all this summer. This fish is a flat, mud-brown, bug-eyed bottom dweller which flourishes during the summer on the south shore of Long Island. An adult is about 16" long, 12" wide and about 2" thick. It lies on its side and exposes the mud-brown side to the surface, but underneath is a silvery white side which is hidden against the ground. It's "bug-eyes" are both located on the the mud-brown side allowing it to be able to see when it is lying on its silver side.

Now trying to catch one of these unusual fish takes an unusual method. Because they are bottom dwellers, they don't chase lines which are higher than the sea floor. They prefer to attack the bait when it is dragged in front of them on the sea floor. In order to get this "dragging effect", you need to be afloat (on a boat) and drifting. The drifting causes the boat to move and therefore drag the line behind it. Sounds easy right? Wrong.

Now comes the fun part. As the lines drag, they usually become snagged on some underwater structure causing you to feel the sensation of "having a bite". Most of the time you break free, but the constant "got a bite" feeling makes it difficult to tell if you have a bit or not. So basically, you end up on the edge of your seat the entire time. You jump at any slight pull on your line. At the end of the day, you usually get "bite-burnout".

With this uncertainty about bites and the slight chance of catching a fish (at all under any circumstances) makes the probability of catching one of these elusive fish....a "freak of nature" or a FLUKE! I guess the name really does fit the fish, but my empty net wishes it didn't.\*

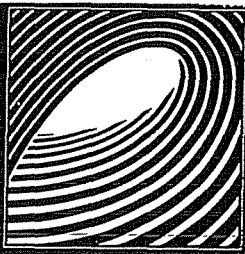


### A Focus on the Surfrider Foundation by Michelle Busse'

Their motto, "consevation, research, and education dedicated towards the protectionm enhancement, and enjoyment of our coastal environment", speaks for itself. This Californian based non-profit cultural organization concentrates on "battles" between those who either seek to destroy or pollute our shorelines, beaches, and waters (consciously or unconsciously) and those who work to protect and enhance our access to recreational and quality enjoyment of our oceans and bays.

Their work extends from the East, West, and Gulf coastlines of the U.S., as well as Hawaii. My involvement with the organization is motivated by one basic premise: that the organization is devoted to allowing individuals to become involved. It's a "foundation" on which one may stand and deliver his or her beliefs on the state of the onvironment. The "playland" we tend to take for granted is at risk. You don't have to look far to see this. The Long Island Sound has lost many species of botanical and aquatic organisms due to the increased presence of pollution, boats releasig poisonous exhausts, and increasing bacteria levels. The shorelines are being destroyed due to the onslaught of those people who wish to consume land as a source of greed and expansion.

You can become a part of this foundation by first starting out as an Associate Member. The fee is \$25, \$10 for students. You will in turn receive a membership card, decals and for each season of the year a newsletter "MAKING WAVES" is published only with your support, opinions, and values can the Surfrider Foundation continue to be a part of continuing progress in litigating cases; persuading Congress to pass legislature that concerns our coastal environment; organizing clean ups and demonstrations; continuing research on the effects of bacteria from pollution which take a toll on the health of surfers, swimmers, and casual beach walkers; and most importantly the future of our waves.\*



**Surfrider  
Foundation**  
conservation • research • community involvement

working to protect and enhance  
the quality of  
our waves and beaches

Memberships are \$25 (\$10 student) To sign up just send a check to  
The Surfrider Foundation. For more info send a buck for a brochure and sticker.  
P.O. Box 2704 #86 • Huntington Beach, CA 92647 • (714) 846-3462

Shark Protection Update  
by Chris Romano

A couple of weeks ago I wrote about the importance of a proposed Shark Fishery Management Plan. Since that time I have learned a little more about the status of that plan. The original concept of the plan came about because of the vast numbers of sharks that were being taken as a bycatch and as a directed catch by fishermen. Two Canadian biologists (Brodie and Beck, 1983) commented that the long-line Swordfish fishery should be called the shark fishery because the catch of sharks was 2 to 3 times greater than the number of swordfish caught. Large numbers of fishermen (both commercial and recreational) were also capturing sharks, removing their fins for sale and then dumping the remains back into the ocean. The shark didn't die immediately, but without fins it could no longer move and therefore starved to death. The National Marine Fishery Service tried to develop a "quick fix" plan to be implemented prior to a permanent plan that would be made by the Mid-Atlantic Fisheries Management Council.

There is quite a bit of controversy over the specifics of the plan. The NMFS wanted to have to have a commercial cap (quota) set at 5,800 Metric Tons. The Council wants a commercial quota of 1,600 MT. The NMFS wanted a recreational limit of 2 fish per angler. This limit would allow a boat with 5 fishermen on board to bring home 10 sharks. Not exactly a very conservation minded idea. I feel that the limit should be one shark (preferably over 300 lbs.) per boat. As a dockside observer for the NMFS I can say that almost all the recreational boats that I see catch only one shark. The most I have seen taken by one boat was six baby Sandbar sharks (the Great White Hunters strike again !!).

Dr. William Fox Jr., the Director of the NMFS was not very happy with the lack of conservation in the plan and he sent it back to the drawing board. Right now the NMFS has come up with an Emergency Action Plan that's good for only 180 days. It would prohibit finning and would create a data base so that a more comprehensive Council plan can be established. This emergency plan did not cover minimum sizes, quotas, closed seasons, reduced effort, allowable gear types or closed areas which are topics that are normally covered in a management plan.

The NMFS is still fighting over the 5,800 MT commercial quota with the Mid-Atlantic Council. Recreational fishing interests believe that this quota is way too high and commercial fishing interests think it's too low. The NMFS plan will come into effect immediately after the Emergency Action Plan ends and it will remain in place until a Council plan is approved of by the U.S. Secretary of Commerce. I think that the NMFS's director, Dr. Fox is stuck between a rock and a hard place. He wants to develop a plan that will truly

protect the resource while at the same time placating the commercial and recreational fishing interests. He also has to try not to appear to favor either interest over the other.

An article that I've read recently (Brodie and Beck, 1983) tells about how the eastern Canadian population of the Grey Seal (Halichoerus grypus) has risen because of the lack of its natural predator, the shark, due to overfishing. They point out that as soon as the Swordfish fishery switched from harpoons to long-lines, the number of sharks caught as a bycatch increased. Without the sharks to cull out members, the seal pop. increased.

The Grey Seal is the principal vector for the parasitic Codworm Phocanema decipiens. With the increase of the seal pop. the worm can now be spread faster to the commercially valuable species of fish such as the Atlantic Cod (Gadus morhua). The Canadian Gov't is now killing the seals to help keep the pop. down.

Brodie, P. and B. Beck, 1983. Predation by Sharks on the Grey Seal (Halichoerus grypus) in Eastern Canada. Can. J. Fish. Aquat. Sci. 40:267-271.

Poem of the week:

The sea is like a silvery lake,  
And O'er its calm the vessel glides  
Gently as if it feared to awake  
The slumbers of the silent tide.

-Moore

CLUB OFFICERS:

<u>COPRESIDENTS:</u>	Chris Romano	981-4312
	Hiram Szeto	2-3287
<u>SECRETARY/EDITOR:</u>	Silvia Seu	2-1868
<u>TREASURER:</u>	Gary Romano	2-4482

# MSRC



Vol. V. No. 23

October 29, 1990

Schedule of Events  
October 29 - November 4, 1990

MON

TUE        1700        Soundings Entries Due

WED                    HAPPY HALLOWEEN

1145        MSRC Weekly Seminar - Challenger 165  
"Controls on the Flux of Nutrients from  
Sediment into the Overlying Water in a  
Hypertrophic Marine System"  
Michael Krom, Israel Oceanog. Limnol. Res.

THU

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FRI        1530        Friday Discussion Group - Challenger 163  
"Overview on the Brazilian Federal University  
at Niteroi, Rio de Janeiro"  
Alberto Figueiredo, Visiting Prof., MSRC

## **FACULTY MEETING**

The next faculty meeting will be November 26, at 0900 in Challenger 165.

## **NOVEMBER 9TH - BE THERE**

November 9 is fall cleanup day. If you haven't signed up for a time yet, please do so now. All volunteers will be invited to a lunch sometime in early December.

## **KEYS**

Please remember to sign out and return keys you borrow from the Main Office. It inconveniences a number of people when keys aren't returned for days and we have no idea who took them.

## **EXPERIENCED FACULTY TRAVEL AWARD**

Guidelines and applications for the Professional Development and Quality of Working Life Committee's Experienced Faculty Travel Award Program are available from the UUP Office, 104 Old Chemistry. To be eligible for consideration, the applicant's activity must occur between July 1, 1990 and June 30, 1991. The deadline for submission of these

applications is November 1, 1990 from the Campus President or Designee with the President's endorsement. For further information or questions, please contact Martha Mills at (518)457-1198.

## **NEW FACULTY DEVELOPMENT AWARD**

Guidelines and applications are available from the UUP Office, 104 Old Chemistry. To be eligible for consideration, the applicant's activity must occur between July 1, 1990 (or date of initial appointment, if later) and June 30, 1991. The deadline for submission of these applications is December 3, 1990 from the Campus President or Designee with the President's endorsement. For further information, contact Martha Mills at (518)457-1108.

## **HALLOWEEN PARTY AT MUSEUM OF L.I. NATURAL SCIENCES**

The Museum of L.I. Natural Sciences will offer one free admission to the Members' Annual Halloween Party to those who join during the month of October. The Halloween Party, held on October 27 from 6:30 to 9:00 p.m., will feature magic, eerie stories by E.J. Wagner, creepy

crafts, face painting with Cubby the Clown and haunting chambers based on the writings of Edgar Allan Poe.

Refreshments will be served.

Admission is \$4 per person with membership - one free admission if new membership is taken out in October. Call 2-8230 for registration on weekdays between 9 and 5 p.m.

## NOTICE

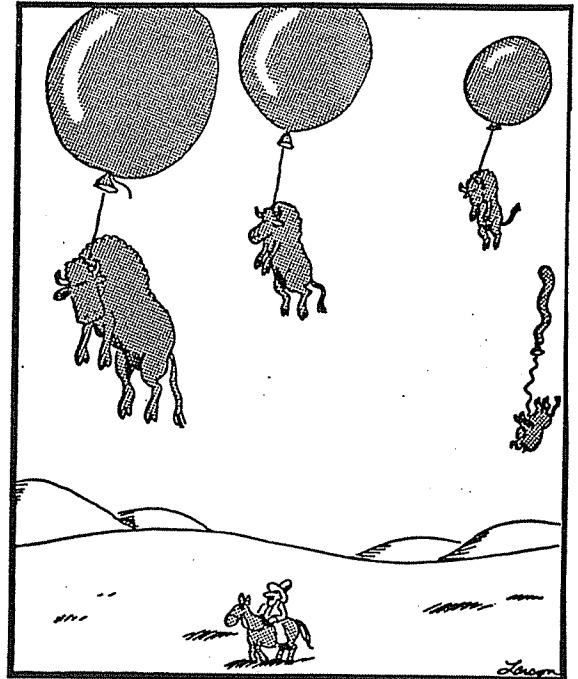
1. Several years ago I transferred to a MSRC faculty member my Zeiss binocular microscope. I've forgotten who got it. I just found the electronic flash that goes with it. If you want it, please identify yourself.

2. I have a large collection of unsorted slides of saltmarsh plants. If anyone wants them, please see me by November 1, 1990. On November 2 they go into the dumpster.

J. R. Schubel

## NEW SECRETARY IN MAIN OFFICE

Please join us in welcoming Maureen Flynn to the Center's secretarial staff. She is the long-sought replacement for Sharyn Schoor who left us in April.



**More Facts of Nature:** As part of nature's way to help spread the species throughout their ecological niche, bison often utilize a behavior naturalists have described as "ballooning."



### ON YOUR BOAT

**46** As a boat owner, you can play a major role in improving water quality. Use on-shore rest rooms and pump-out facilities wherever possible. Never release garbage or raw sewage into coastal waters.

**47** Go slow in your boat near banks which your wake can erode. Observe posted marine speed limits.

**48** Keep a garbage receptacle on board, keep it covered and make sure everyone on board uses it. If you dispose of your garbage at a marina, be sure to follow their recycling rules.

**49** Avoid bringing disposable plastic products on board.

**50** Make it a rule that no trash goes overboard, including old fishing line.

**51** Retrieve trash found in the water.

**52** Furnish your boat with reusable containers.

**53** Make sure your motor does not leak gas or oil into the water. Do not drain engine fluid into the water. Be careful not to spill when adding oil to your engine.

**54** Place a bilge pillow (an oil absorbing sponge available in marine stores) in your bilge to remove oil from your bilge water.



#### ON YOUR BOAT

**55** High phosphate soaps, toxic polishes, stain removers, and other similar maintenance products should not be used on or near the water, on boat ramps or in adjacent areas. Bottom scrapings are particularly toxic and should not be allowed to enter the water.

**56** When cleaning your boat, use non-phosphate detergent and a scrub brush.

Don't use the ocean or any waterbody as a garbage can.

#### WATERFACT

**Plastic bags, monofilament line, and 6-pack rings can be deadly in the ocean.**

**Beverage 6-pack holders have been estimated to cause the deaths of 6 million seabirds and 100,000 marine mammals annually, and have a life-expectancy of 450 years.**

## Stony Brook

Director of Admissions  
State University of New York at Stony Brook  
Stony Brook, New York 11794-1901  
telephone: (516) 632-6868  
FAX: (516) 632-9027

October 17, 1990

Dear Colleague:

One of the services provided by the Office of Undergraduate Admissions is to hold workshops on the college admissions process to assist students as they begin the college planning process. We are frequently asked to give presentations to high school students and their parents on applying to college, collecting information, asking the proper questions and learning what to expect during the course of their senior year.

Undoubtedly, many of our faculty and staff have children who are juniors and seniors in high school and who are getting ready for the college application process. If there is enough interest, I would be pleased to do a general presentation on this process to high school juniors and seniors, their parents and friends of the Stony Brook community.

The session is planned for Tuesday, November 27, 1990 at 7:00 p.m. and will be held in the Alliance Room located in the basement of the Ward Melville Library. Enclosed is a response card which I would appreciate receiving by Friday, November 16th. I look forward to hearing from you and hope that this is a service that you will find useful for your family and friends.

Sincerely yours,

*Gigi Lamens*

Gigi Lamens  
Director of Admissions

GL:gs  
Enclosure  
MG108

## Stony Brook

Vice Provost for Computing and Communications  
State University of New York at Stony Brook  
Stony Brook New York 11794-6230  
(516)-632-7796

October 19, 1990

## ANNOUNCING MACTOBERFEST '90

MACTOBERFEST '90 has been prepared to put you in touch with capabilities of the new Macintosh computers, and acquaint you with the new user support services that reside in this building. There will be several demonstrations and presentations devoted to new administrative, courseware and networking solutions.

Plan to attend MACTOBERFEST '90 on October 25th from 10 to 5 in Studio A of the ECC Building.

Please distribute the attached flyers to your staff.

Thank You.

Sincerely,

David Bertsch  
Apple Support Coordinator

## MARINE SCIENCE CLUB ACTIVITIES

The Humpback Whale, Megaptera novaeangliae (Borowski, 1781)

by Christopher Romano

The Humpback whales' scientific name means "big wing of New England." Their common name comes from the whales' tendency to round its back when diving. The Humpback shares similar characteristics with the rorquals (the "tube" or "furrow" whale referring to the throat grooves) such as a dorsal fin, ventral grooves, and large size. However, it is different enough to be placed into a separate genus. There is a great deal of variation in the shape of the dorsal fin, it may be falacated like that of the Sei whales to only slightly rounded. The Humpback has a series of bumps (from 2 to 15) on the upper jaw. These bumps contain hair follicles and bristles (usually 1 to 3 cm. long). These bristles may be used for tactile sensation.

The Humpback feeds in colder waters from spring to fall. In winter, they migrate to shallow tropical waters. They feed on euphausiids (Krill) and schools of herring, sand lance, capelin, and mackeral. When feeding, the Humpback takes a swallow of prey-filled water. The mouth is closed and water is then forced through baleen plates. The food is caught in the baleen plates, the tongue scrapes the food off the plates and then swallows the food.

Many Humpbacks use clouds of bubbles to help catch prey. A cloud of bubbles is formed by the exhalation of air under water while swimming in a circle. The bubble cloud helps gather the prey. The cloud acts as a siene net.

Another type of feeding behavior in Humpbacks is known as lunge-feeding. The whale lunge-feeds by swimming obliquely up or vertically through schools of prey. Groups of two or more whales have been known to lunge-feed laterally. The whales movements are synchronized so that they usually avoid each other. Lunge-feeding is often used in conjunction with herding the prey by using bubble clouds.

Sexual maturity is reached between 4 and 5 years. Breeding usually occurs every two years. The gestation period last from 11 to 11,5 months. Calves are usually between 4 and 5 meters long when born. They are suckled for about 5 months.

Humpbacks in their seasonal migration southward along the Eastern Coastline of the U.S. can come very close to shore. In fact, they came so close to shore that there were shore-based whaling operations directed towards them in New York (Long Island) and North Carolina.

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### Club Officers:

Co-presidents:	Chris Romano	981-4312
	Hiram Szeto	2-3287
Secretary/Editor:	Silvia Seu	2-1868
Asst. Editor:	Cathy Krupski	2-1698
Treasurer:	Gary Romano	2-4482

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Dates to remember:

\*November 6--meeting to arrange Mystic aquarium Trip.

November 10- MYSTIC AQUARIUM TRIP!!

\*Meeting room/time to be announced. For further info concerning trips and meetings, call Chris, Hiram, or Silvia.

## SILVIO PANTOJA

## PROFILE

I have been at MSRC for a year, happy to be done with the core courses and now working in my thesis under the direction of Cindy Lee.

After graduation from the University of Concepción (Chile) in 1982, where I studied marine biology, I began my research training working in marine natural product chemistry, then did a couple of cruises to the Antarctica studying pollution and I worked later in primary productivity. Having been witness to the political problems of the Chilean universities I decided to go to the south of Chile to be hired by a company which cultivated seaweeds. In June 1989, after seven months in that very isolated place I came to SUNY with my very poor English (which is now much better, it is only poor).

Although, I do not love the "exciting L.I.", my life as a student at MSRC, the relationships with people and being close to NY city make things interesting. I really appreciate the opportunity to learn on the culture of people in US.

Many of you know that in 1973 the government of Chile was overthrown by a coup d'etat and a military dictatorship took the power until Pinochet (the dictator) was beaten in an election in December 1989. In the present Chile there are many things to be done as people is rebuilding the society; and the education, the social reformation and the scientific development are priority areas for the future of our country, these are the reasons why I would like to finish the program and continue my research there.





## Profile on Bruce Brownawell

A New Yorker - the concept is still difficult to fathom after so many years of rooting against George Steinbrenner's Yankees, and wishing for those horn-blowing, orange license plates to leave Cape Cod during my summers there. Despite my deep-seeded prejudices against NY, my adjustment to Long Island has been relatively smooth and certainly made a lot easier by George's problems. As some of you know, my summer would have been even more enjoyable if I had just managed to get some white plates.

I've actually been planning my way to MSRC for a very long time - I just didn't know that it would have to be in New York. I was born on the Mississippi and grew up a short drive from Illinois' version of the ocean (Lake Michigan - I saw the salty kind the first time at 21 when I took a spring break road-trip to Florida). My Father and Grandfather shared their love of the water and shore with me - they were serious fisherman and had grown up on the sand dunes north of Gary, Indiana. My best memories of childhood are times spent fishing on Missouri's White River where my Grandfather had retired; walleye, bass, channel cat and trout were plentiful; development was still sparse in the Ozarks; and the peacefulness of daybreak on the river was worth the drive down from Chicagoland. As I grew older, there began to be regular fish kills and washups on Lake Michigan beaches, and large algae blooms around our favorite fishing holes in Missouri. I began to worry about environmental pollution and its causes, but was more interested in fossils and sports. I entered high school in the early seventies, when environmental awareness had become a small movement. I'd given up my interest in becoming a paleontologist soon after reaching puberty, but after reading Rachel Carson and Paul Erlich, I decided that I had to become an environmental scientist. I loved biology but somehow had enough on the ball to know that if I ever wanted a job I should become a chemist - I've focused on becoming an environmental chemist since my junior year in high school.

My personal road has been pretty straight ever since, although my truck has covered a few miles. I studied chemistry and environmental chemistry at DePaul University in Chicago before leaving the midwest to go to Woods Hole, which now feels like the closest place to home. Cindy Lee was my first advisor at WHOI - don't believe her if she tells you how I lost the most critical Spartina sample (at least I don't think I did). Woods Hole was a great place to meet characters of the academic and nonacademic kind. Science was high energy, but nights of dancing in Chicago were replaced by pot lucks and folk music. From Woods Hole I went to the open spaces of Oregon to postdoc at OSU. Corvallis tends to be an even lower energy environment. I most enjoyed the skiing (when I wasn't injured), crabbing in Newport, and all the interesting wineries and microbreweries that are springing up throughout the Valley. Unlike most people who deposit in Oregon, I was resuspended and transported back to the east coast by MSRC. So far so good - ask me later for the rest of the story.



# MSRC



Vol. V, No. 24

November 5, 1990

## Schedule of Events November 5-11, 1990

MON

TUE

Remember to Vote!!

1530

"Environmental Problems and Biospherics"  
Sergei Ostroumov - Endeavour 113

1700

Soundings Entries Due

WED

1145

MSRC Weekly Seminar - Challenger 165  
"Instability of Quantitative Genetic Variation  
for Growth in the Hard Clam, Mercenaria  
mercenaria"  
Jerry Hilbish, Univ. of South Carolina

THU

1800

Wine Tasting - New Indoor Sport Complex  
\$20/person

FRI

Cleanup Day!!

1530

Friday Discussion Group - Challenger 163  
"Why Barbados? An Overview of Our  
Research Program."  
Bob Cowen, MSRC

MARIE DE ANGELIS

I spent the first 23 years of my life in Queens and received my BS in chemistry from Hofstra University. After college I loaded my 1973 Chevy Malibu (known to my friends as the yellow land yacht) with my earthly belongings and went to graduate school in physical chemistry at Rice University in Houston. I spent a year there when I realized that all the people hanging out in the halls were unemployed postdocs. So I applied for graduate school in oceanography (OK, OK, so I young and foolish). I loaded up the yacht again and continued my westward journey to Corvallis, Oregon, home of the Beavers. I joined the trace gas lab of Lou Gordon and spent 3 years working on nitrous oxide before receiving my MS in chemical oceanography in 1980. Not yet willing to make the plunge into the PhD program, and still being relatively young and foolish I became a freelance marine technician which means I went out to sea a lot and juggled my checkbook a lot more. During this time, Mt St Helens was obliging enough to erupt in May of 1980, thereby creating research opportunities for deserving and starving scientists. So I went to work for John Baross, a microbiologist, on Mt St Helens research. This involved flying around in helicopters and going into the crater and rowing around Spirit Lake in a Zodiac, which are basically fun things to do. We also did a lot of work on reduced trace gases and the bacteria which produced and consumed them. I took a brief break from this in 1982 to go down to Costa Rica for 3 months and look for oil on the Caribbean coast. This boondoggle involved everything from converting the one and only Costa Rican naval vessel to a working oceanographic ship to setting up navigational antennas in remote parts of the country to making occasional forays out to sea to collect data until the fresh water ran out (on average about 3 days) all the while enjoying a wonderful and friendly country. In 1984, John was offered a faculty position at the University of Washington in Seattle so we packed up and waved goodbye to Corvallis in the rearview mirror. I entered the PhD program at UW and worked on methane oxidation associated with deep-sea hydrothermal vents. After having been involved with hydrothermal vents since the discovery of the Galapagos vents in 1977, I finally got to go down in the deepsea submersible, ALVIN, in 1988 (I highly recommend it). I also spent a lot of time sampling rivers of the Pacific Northwest for methane, acquiring a taste for good coffee and good wine, knitting and selling Icelandic sweaters to pay for the coffee and wine, and camping and birdwatching in a beautiful part of the country. I submitted my dissertation on the last possible day in 1989 and tearfully abandoning my faithful land yacht in Seattle (three months after I sold it, it lost a wheel on the interstate), I arrived in Stony Brook in Jan, 1990. I am currently working with Cindy Lee looking at methane production by copepods and with Mary Scranton looking at methane oxidation in the Hudson River and getting reacquainted with Long Island which doesn't look at all the same as I remember it looking when we used to drive out to pick pumpkins when I was in grammar school.



## **VOLUNTEERS NEEDED**

The Center for Excellence and Innovation in Education is sponsoring a L.I. High School Teacher Colloquium and is soliciting SUSB faculty participation. The purpose is to bring some of L.I.'s high school teachers and students to the University for a colloquium on a topic that is currently in the news or of long-standing and well established interest. If you would like to organize a colloquium for 1990-91, please see Jeri Schoof. MSRC should be represented.

Oceanside High School is presenting its 5th Annual Numan Relations Day Program on Wed., March 20. Its theme is "Discover the Challenge: A World of Difference." They would like someone to organize a session on Environmental Concerns. Please see Jeri if you can help.

## **EMPLOYMENT OPPORTUNITY**

The Hudson River Foundation is seeking to fill two positions: Public Education Specialist and Public Participation Coordinator. Complete descriptions available in Main Office. Closing date is Nov. 23.

## **MSRC CLEANUP**

Did you forget to sign up? You will be missed.

## **FUNDING OPPORTUNITIES**

The Office of Naval Research is soliciting proposals for its Young Investigator Program. Application details are in the Main Office. Deadline is Jan. 16.

## **A MATTER OF COURTESY**

It would be nice if all of us were considerate of each other and tried to make life less hassled by returning things borrowed, signing out keys, etc. Two weeks in a row the keys to Challenger 165 have been missing. They were not signed out the first time. A second set was placed in the key box - then the first set mysteriously returned. Now both sets are missing and none are signed out.

The yellow slide carousels were purchased to add to the supply the Center had. I thought that people would be alerted by the yellow color that it was a Center resource not meant to be kept in someone's office as private stock. All 10 are missing.

This really has to stop. We don't have the staff to keep someone standing outside the supply room or the key box to be sure things are signed out. We don't have the resources to keep replacing things. What is even more distressing is seeing the frustration of people who have the experience of trying to set up for class or a seminar and can't locate the keys.

If you have the keys to 165 please return them. If you have a yellow slide carousel please return it.....and next time SIGN THEM OUT!!!!

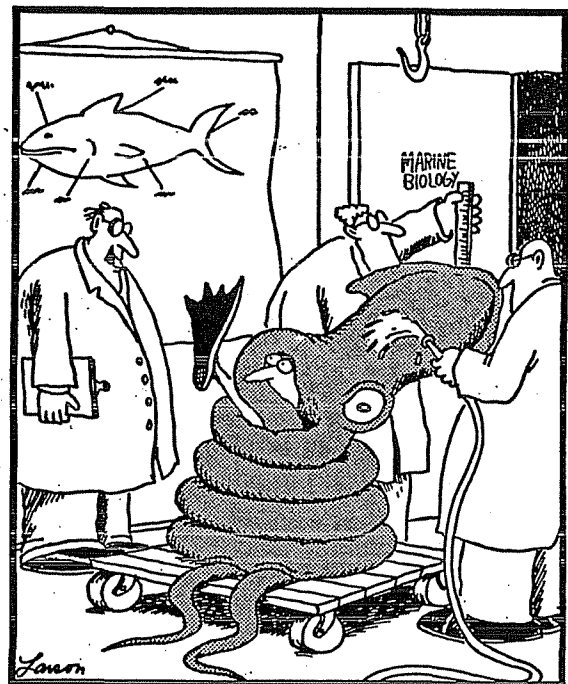
Jeri Schoof

#### SEFA/UNITED WAY

There's still time to submit pledges for SEFA/UNITED WAY. So far 14 faculty and only 3 staff have contributed. Faculty participation is a little better than last year. Staff participation is down. Please - there are many worthwhile agencies you can contribute to -- and when approached during the year for donations you can honestly say, "I gave at the office."

#### SEMINAR ANNOUNCEMENT

Dr. Sergei Ostroumov's next seminar on "Environmental Problems and Biospherics" will be held on Tue., Nov. 6 at 3:30 pm in Endeavour 113. The seminar will consist of (1) atmospheric pollution and pollution of aquatic and terrestrial surfaces via depositions from the atmosphere, (2) current environmental news from the USSR and (3) color slides on art and architecture.



"Excuse our excitement, Mr. Farnsworth, but your cries for help have afforded science a rare opportunity."

**EROSION IN YOUR YARD**

**57** Rainwater flowing off your property picks up and carries contaminants to nearby surface waters. There are many ways you can improve absorption of rainwater by soil and reduce erosion in your yard. Plant ground cover, trees, and shrubs over bare patches and at the borders of lots. Plants help prevent erosion, moderate summer heat, and act as a filter for rainwater from downspouts and driveways.

**58** When landscaping, choose permeable surfaces such as wooden decks, porous pavement, bricks, or stones, rather than solidly paved surfaces, to allow for maximum absorption of water into soil.

**59** Divert rain from paved surfaces onto grass to permit gradual absorption.

**60** Choose appropriate plants, shrubs, trees and grasses for the soil in your yard; don't select plants that need lots of watering (which increases surface runoff). Consult your local nursery for advice on which plants, shrubs, and trees will grow well in your yard.

**61** Consider groundcover plants as well as grass.

**62** If you live along the shore, take steps to minimize erosion:

- Remove fallen branches and trash from your stream, marsh, river, or beach.

**EROSION IN YOUR YARD**

- Keep people and cars away from the waters edge.

- Build steps or a ramp between the top and bottom of the bank if you need access to the water.

- Avoid heavy loads on the top of the shoreline.

- Plant and protect vegetation on the slopes and adjacent areas of shorelines.

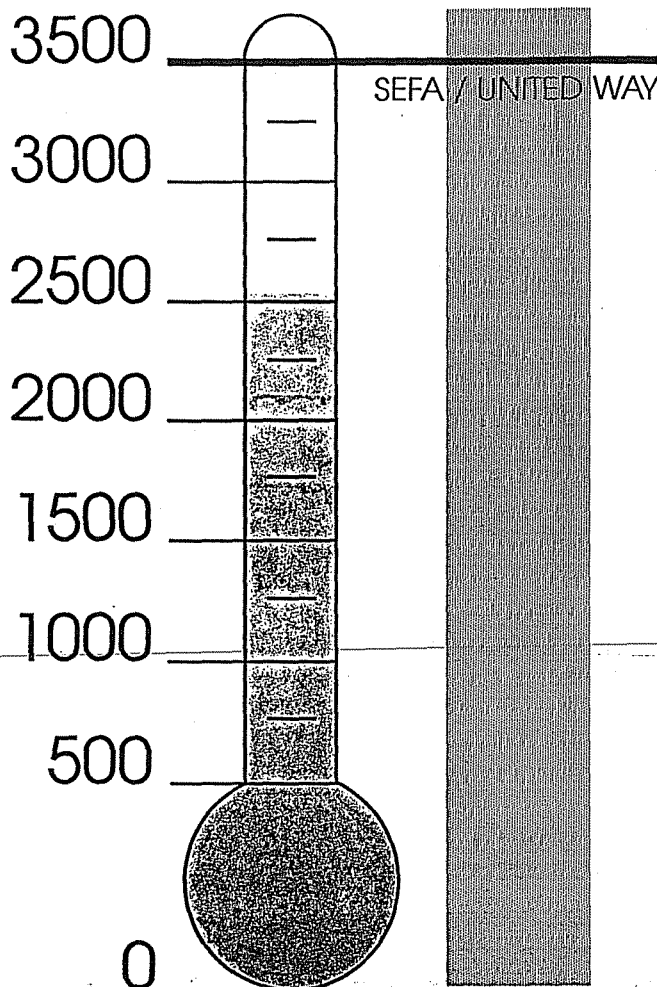
**63** If your garden is on a slope, plant the vegetable rows along the contour rather than up and down the slope. This will help slow down water runoff and decrease the rate of soil erosion.

**64** Place splash block under gutter downspouts to prevent erosion.

**WATERFACT**

*In cities and suburbs where much of the land is paved or covered rainwater runs off as much as 10 times faster than on unpaved land.*

*It takes 1/2 gallon of water to cook a pot of macaroni, and a gallon to wash the pot*



## MARINE SCIENCES CLUB

### The Pacific Salmon by Chris Romano

There is one species of true salmon and six species of Pacific Salmon in the Pacific Ocean. All of these salmon are anadromous. This means that they spend most of their adult life at sea but return to fresh water to spawn. Each of these species varies in its oceanic and fresh water habits.

The only member of the true salmon is the rainbow trout (also known as steelhead or Kamloops trout), Salmo gairdnerii. This salmon runs to about three feet in length and averages about 36 pounds. Some reach to about 45 pounds. The juveniles spend from one to two years in fresh water, after which, they migrate out to sea where they spend two or more years before returning to fresh water to spawn.

The Steelhead can enter fresh water at any time, but it will only spawn in spring or winter. They can be found from southern California to the Gulf of Alaska. The rainbow trout spends its entire life cycle in fresh water. The Kamloops trout is land locked and therefore can not migrate to the sea at all.

The Masu or Cherry salmon, Oncorhynchus masu, is only found on the Asian side of the Pacific. They average about nine pounds and 25 inches, but they have been known to reach twenty pounds and 36 inches. The juveniles spend about a year in fresh water before migrating to the sea. They spend their adult life in the Sea of Japan. Some remain in fresh water for their entire life cycle. Maturity is usually reached at three to four years. The females lay about 3000 eggs. Both sexes die after spawning. The Chinook or Spring Salmon, Oncorhynchus tshawytscha, is found mostly in rivers from the Bering Sea to Southern California. Their average length is approximately three feet and their average weight is 50 pounds. Their extreme limit is four feet 10 inches long and 126 pounds. Most of the Chinook go to sea within a year after hatching but some may remain in fresh water for up to two years. The average maturation date is between four and five years but some mature as early as two or as late as eight years. They spawn in fall or spring. The females lay about 5,000 eggs, both sexes die after spawning.

The Coho Salmon, Oncorhynchus kisutch, has an average length of about 24 inches and weighs 12 pounds. The extreme weight is 31 pounds and 38.5 inches in length. They grow more rapidly than most salmon. Most juveniles migrate to sea within a year after hatching but some may wait up to three years before migrating. Most mature by their third year. They spawn in streams and rivers that lay close to the sea. They can be found from Northern California to the Bering Sea. They lay on average 3,500 eggs. They spawn between September and December, after which they die.



## MARINE SCIENCES CLUB

The Chum Salmon, Oncorhynchus keta, has an average length of about 26 inches and a weight of about 18 pounds. It's extreme length is 3 feet 4 inches and it's extreme weight is 45 pounds. The Chum Salmon goes to sea about 6 months after hatching. They mature on average in the third or fourth year. Some mature as early as two years or as late as five. They spawn in September and November. They can be found both in Asia and North America. They lay about 3,000 eggs, usually near the mouth of rivers but sometimes they range far upstream. They also die after spawning.

The Red or Sockeye Salmon, Oncorhynchus merka, has an average length of 25 inches and average weight of five to seven pounds. The extreme weight is 15.5 pounds. Its age ranges from 3 to 8 years. Some juveniles head directly to the sea upon hatching but most wait for a year before migrating. They spend up to four years in the sea. When it comes time to spawn, they enter rivers, head upstream, sometimes traveling hundreds of miles, untill they reach a lake. From the lake they move into tributary steams before spawning. They lay about 4,000 eggs per female. In some places red salmon have become land-locked. These are often known as little red fish. They are generally smaller than red salmon with the normal andramous life-cycle. They all die upon spawning.

The Red salmon shows a remarkable change in color when in the sea and in fresh water. In the sea they go from a green or blue back and silvery sides to a bright red body and a green head in fresh water.

The Pink or Humpback Salmon, Oncorhynchus gorbuscha, has an average length of about 20 inches and an average weight of 3 to 5 pounds. Occasionally it may weigh as mush as 12 pounds. They are short-lived, usually only 1 1/3 to 2 years, but some live for 3 years. They spawn from northern California to the Bering Sea and the Aleutian Islands on the American side and from the Bering strait to Korea on the Asian side. They usually spawn close to the sea, if not in brackish water. The female usually lays approximately 2,000 eggs, the juveniles go to sea shortly after hatching. The adults die after spawning.

The Salmons are very abundant on both sides of the Northern Pacific Ocean. They are important to commercial and recreational fishermen. The fact that they return to fresh water to spawn in bulk at set times during the year has led to many salmon populations to be decimated by overfishing.

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## MARINE SCIENCES CLUB

### NOTE FROM THE EDITOR:

This is just to remind you that the Mystic Aquarium trip is on November 10. The approximate cost is \$2.50 for admission. Transportation will be provided. There will be a meeting on November 6 to discuss meeting time and place on Nov. 10. For further information and if you would like to go to Mystic but can't make the meeting, please call me at 2-1868. If I'm not there, leave a message and I'll return your call. Meeting room/time will be announced.

### CLUB OFFICERS:

COPRESIDENTS:	Chris Romano	981-4312
	Hiram Szeto	2-3287
SECRETARY/EDITOR:	Silvia Seu	2-1868
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Vol. V, No. 25

November 12, 1990

**Schedule of Events**  
**November 12-18, 1990**

MON		Happy Veterans Day
TUE	1700	Soundings Entries Due
WED	1145	MSRC Weekly Seminar -- Challenger 165 "Effects of Canopies of Understory Kelp on Larval Settlement and Growth of Epibenthic Suspension Feeders" "James Eckman, Skidaway Inst. of Oceanography
THU		
FRI	1530	Friday Discussion Group -- Challenger 163 "Deposition of Cr, Cu, Ni, Pb and 210Pb in Long Island Sound" Dave Hirschberg, MSRC

## Profile of David L. Berg

Why am I here you ask? I am filling in for George Rowland as manager of the Flax Pond Lab. How did I get here? I suppose it started in 1974 when I found myself on St. Croix in the Virgin Islands having finished a BA in geology and a field course at the Fairleigh Dickinson lab. I never had any idea what I was going to do with this degree, but I did have some ideas as to what I might do on St. Croix. There seemed to be an excess of rum (and other liquid and botanical recreational products) that required consumption in great excess. That in combination with sun, beaches, and numerous continental visitors in search of good times would require my full energies. To support these endeavors it was necessary to sell someone my remaining time and energy. That lucky institution was Columbia University. The Artificial Upwelling Project was a research aquaculture facility located on an old rum plantation. Deep ocean water was pumped into shoreside ponds where phytoplankton was grown to support various bivalves. After a couple years I actually grew tired of the life there. With the majority of my brain cells still intact, I was transferred to New York to the Tullman Island Effluent Aquaculture Project. This was not a pretty place - 65 million gal./day of "domestic waste" flowed through the plant. We had our own secondary treatment system. The effluent from it was used to grow phytoplankton as a food for clams and mussels. My fondest memory? I was lowered head down in a harness attached by ropes to the hands of the strongest, most trustworthy coworkers through a manhole into the main interceptor pipe of the plant. My mission, while suspended over a 20' diameter river of Queens' finest product, was to unclog our 1" intake line. Having avoided hepatitis and worse, it was time to go to school again. After a year of all those undergrad bio and related courses they allege are necessary for grad school, I was taken under Mel Carriker's wing at the Univ. of Delaware Marine Science Center. That was when Sea Grant still thought Delaware's closed system mariculture was a good idea. My thesis topic (bivalve nutrition) was termed by my new advisor akin to "developing a better tire for Goodyear". I did it anyway. That advisor now sells Amway and owns a trailer park. From Delaware I returned to a place I vowed never to return to: Long Island. While avoiding writing my thesis, I worked at Fox's hardware and learned what a street el is. Jeff Levinton in Ecology and Evolution was impressed by my knowledge of plumbing and stainless steel fasteners. Jeff had me do unmentionable things with *Hydrobia* and their "pellets". Darcy Lonsdale joined Jeff's lab soon after I did. After I had become personally acquainted with every snail in Flax Pond, and Darcy had counted her hundred thousand copepod nauplius, Jeff decided that perhaps Darcy needed help. Soon thereafter, Darcy was able to see again without the aid of 20X oculars. In 1984, I left the cozy confines of the Univ. to start Cultured Aquatics in Northport. For six years I raised marine and freshwater bioassay organisms for sale to testing labs nationwide. I also cultured live foods for the aquarium trade, and seed clams and oysters for private and municipal growers. In August I put the business up for sale, (see me for details) and came to the Flax Pond lab to disrupt the lives of innocent researchers with frenzied clean-ups and better ways to do things that were already working just fine - thank you very much.

## **SECURITY ALERT**

Be sure to keep your purse/wallet in a locked desk/file cabinet if you are leaving your office. Anne West's wallet was stolen on Friday afternoon and her credit cards were used for major purchases.

## **PERSONAL**

I have a friend who collects international postage stamps. If you receive any international mail and do not save the stamps, please cut them off the envelope and place in my mailbox. Thanks.

Jeri Schoof

## **SEFA/UNITED WAY**

Please send in your pledges; the campaign ends on November 16.

## **CONGRATULATIONS!!**

Please join us in congratulating Henry Bokuniewicz on his Merit Award for Teaching and Curriculum Development.

## **EMPLOYMENT OPPORTUNITY**

The Darling Marine Center at the University of Maine is recruiting two technicians for their benthic

lab. A Bachelor's Degree is required and two years of related experience or a Master's Degree in an appropriate field is desirable. See the Main Office for more information.

## **SHOPPING DAYS TILL CHRISTMAS**

There are only 46 shopping days left till Christmas!!

## **REMINDER**

The next faculty meeting is November 26 at 9am. Agenda items should be given to Jeri by November 19.

## **RESEARCH OPPORTUNITY**

I am looking for a motivated student (M.S. or Ph.D. student) to continue work on a 3 year project on early life history and recruitment (growth and survival) of bay scallops, and predator-prey interactions in eelgrass habitat. Shallow water diving (<3m) in eastern Long Island bays is required. Support is available for a 2 year period (1991-92). If interested, stop by in Dana 105 (Monica Bricelj -- 2-8663).

## SOMETHING BORROWED

A year or two ago I lent a small, grey tital electric heater to someone at MSRC. Would whoever has it please contact me. Thanks.

Val Gerard

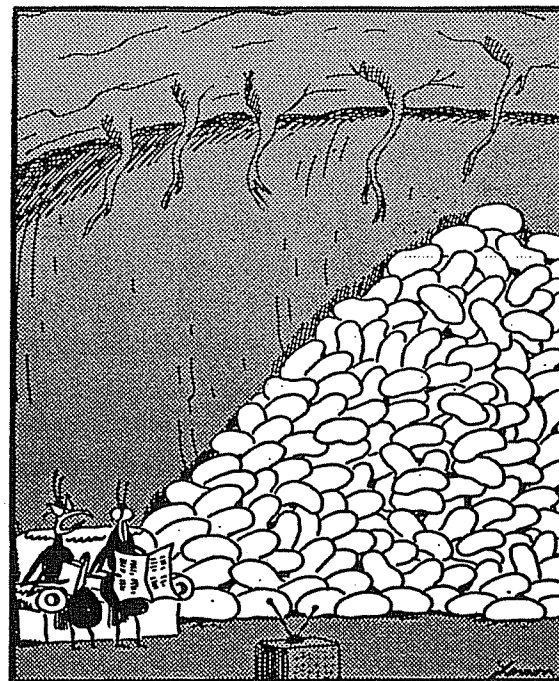
## NOTES FROM THE REFERENCE ROOM

A farewell editorial from the editor of Experimental Biology recently crossed my desk. Because of a decreasing subscription base and rising cost of publication and distribution this journal was forced to cease publication. The editor expressed his frustration at the vicious cycle that he was caught up in -- rising publication and distribution rates necessitating a rise in subscription rates which caused a drop in subscriptions during these economically troubled times. In addition Marine Policy Reports has ceased publication; Biological Oceanography is being published late and irregularly; and the Canadian Journal of Fisheries and Aquatic Sciences has announced a reduced publishing schedule. Let's hope that this does not become a trend. When the free flow of the quantity and quality of scientific information declines we all suffer. To the editors and

librarians who love printed matter, it can almost feel like the loss of a good friend. One of our original goals was to make our Reference Room a model for other marine science libraries in the area of document location and delivery. We have succeeded! When Nick Fisher recently needed an article from the Journal of Experimental Biology and Marine Ecology, it was located in the Biology Library. In just 18 minutes after he made his request, a copy of the article was in his mailbox. Last week, Hartmut Peters needed three articles for his oceanography class. Two were found in the Earth and Space Sciences Library; one was in the Chemistry Library; and within two hours all three copies were in his mailbox. Jeng Chang needed a copy of an obscure journal article which we could only locate at Woods Hole. Although Woods Hole charged him \$24 for xeroxing and mailing the article, it was in his possession 48 hours after his request. While we cannot promise such quick services in all cases, we will certainly try. I want to publicly thank George Carroll and Jose Aller for their help and encouragement in trying to make our Reference Room a model for other marine science libraries on a limited budget. Although they both have other primary areas of responsibility, they have been unselfish in their time and

support of the Reference Room. For those of you that know George and Jose you know that they do not give up easily. Neither do I and the three of us will keep trying to achieve our goal and hope that the budgetary crisis will soon ease. The J.C. Penny Company, through their Massapequa store manager, Bob Smith, has agreed to make a financial contribution to our Reference Room. Hopefully, they will be able to help us with library furnishings as well. We appreciate their generosity and plan additional fund raising efforts in the near future. Last week we processed over 100 interlibrary loans for our highest weekly total to date. It is gratifying to see the increasing use of our Reference Room among faculty, staff and students. As always, if you have any comments or questions, please discuss them with myself or other library staff members.

Larry Herschenfeld



**"You know, Vern...the thought of what this place is gonna look like in about a week just gives me the creeps."**



#### FERTILIZERS & PESTICIDES AT HOME

**65** Lawn treatments should be tailored to the special needs of your soil and vegetation. Test your soil, use low maintenance grasses, and apply the right fertilizer sparingly when the soil is moist and there is little likelihood of immediate heavy rain.

**66** Limit the use of pesticides and chemical fertilizers in your garden and lawn by substituting natural products and techniques.

**67** Only use what you need to use; "a little more" does not mean "a little better." Check labels for the proper times and application rates.

**68** Avoid getting pesticides and fertilizers on sidewalks or driveways; they can wash into storm drains.

**69** If you must use toxic chemicals for pest control, choose those that are specific to your garden problem, apply carefully according to package directions and store in original container. Remember that chemicals poisonous to one form of life are often poisonous to others.

**70** Always keep chemicals in their original container. Make sure they are tightly closed and plainly labeled.

**71** Slow release fertilizers are the best choice to supply the nutrient a lawn needs without allowing excess nitrogen to leach into the ground or surface waters.



#### FERTILIZERS & PESTICIDES AT HOME

**72** Use low maintenance native shrubs and ground covers. Other ground covers such as ivy require less water.

**73** Mow at a minimum height of 1-1/2 inches. Preferably, grass grown at a 2-inch height provides competition for crabgrass and other weeds, a deeper root system, and resistance to the effects of drought.

**74** One inch of watering per week should satisfy your lawn. To measure how much water is applied, put a coffee can in the lawn area being watered and check it every half hour or so to see how long it takes to accumulate one inch.

**75** Make sure you turn off your sprinkler when it is raining.

**76** Water lawns before 10 a.m. or after 4 p.m. and avoid watering on hot windy days.

#### WATERFACT:

**According to the Environmental Protection Agency, at least 73 pesticides have been found in the groundwater of 32 states.**

**Up to 60% of the pesticides in use are for cosmetic purposes only.**

## MARINE SCIENCE CLUB

The Blue Whale: Balaenoptera musculus (Linnaeus, 1759)  
by Chris Romano

The Blue Whale is the largest living animal on the Earth. The blue whales are currently divided into three subspecies. The B.m. intermedia, found in the Southern Hemisphere, the smaller B.m. musculus, found in the North Atlantic and North Pacific Oceans, and the still smaller pygmy blue whale, B.m. brevicauda which can be found in the Indian Ocean and the Southeast Atlantic.

The Maximum size is about 100 ft. long and 160 tons. The blue whale has been known to swim as fast as 6.5 km/hr while feeding. Because of its fast speed, it was not taken in large numbers by whalers until the advent of the harpoon gun and large factory ships. The current population is estimated at 10,000.

The blue whales are finicky eaters, they feed almost exclusively on a few species of euphausiids (krill). They are also known to eat copepods, amphipods, and squid. When feeding, a blue whale swims into an area with a large concentration of prey and then it scoops up a mouthful of water and prey. The whale closes its mouth and forces the water containing the prey through baleen plates. The baleen plates act as a strainer, trapping the prey items while allowing the water to flow through. The food is then pushed back into the gullet by the tongue.

The blue whale usually feeds in polar waters but some non-migratory animals feed in the Sea of Cortez and Sri Lanka. The movements of the whale has been correlated with the locations of krill blooms. The whale feeds during the evening and early morning hours coinciding with the vertical migration of prey. The blue whale eats about 2 to 4 tons of krill a day.

Female bluewhales, upon reaching sexual maturity, give birth to a single calf every 2 to 3 years. The gestation period is estimated to last from 10 to 11 months. The calves are 6 to 7 meters long at birth and are weaned at 7 months when they are about 16 meters long.

### NEEDED:

Anyone wishing to write articles for the newsletter may contact Silvia at 2-1868.

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	Hiram Szeto	2-3287
SECRETARY/EDITOR:	Silvia Seu	2-1868
TREASURER:	Gary Romano	2-4482



**WHEN CAN YOU SPEND 45 MINUTES AND SAVE 5 LIVES?\***

**IMPORTANT FACTS**

- Over 600 pints of blood are needed daily for Long Island's area hospitals.
- We do not collect enough blood in this area to meet this need--almost 1/3 of the blood supply must come from Europe where people are more willing to donate.
- One pint of blood can save up to five lives--blood is divided into its various components so many people can benefit from one donation.
- People needing blood most urgently are the elderly, especially those being treated for cancer. The second largest group is children suffering from blood diseases, cancer, and accidents. They are relying on those of us who are able to donate blood to maintain a healthy blood supply.
- Only 4 people out of 100 who are able to give blood do so.
- To donate blood you must be between age 17 through 76, weigh at least 110 pounds, and be in good health.
- The need for blood is daily. It must be there when it is needed. Red blood cells live for only 1 to 5 days.
- It is absolutely safe to donate blood. You cannot get any disease from donating blood. All materials used to collect a pint of blood are new (never used before), sterile, and disposable. They are used once only for your donation.
- Every donor is given a mini-physical to be sure it is safe for them to donate--and, of course, to be sure it is safe for a patient to receive their blood.

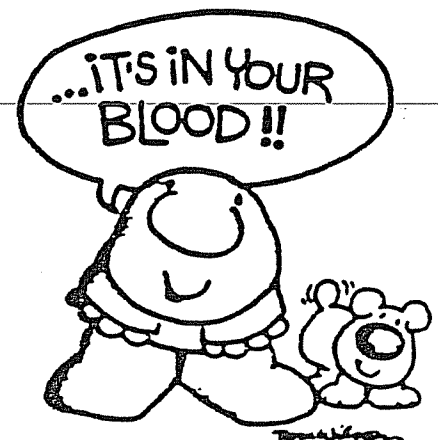
**GIVE  
LIFE**

**\*WHEN CAN YOU SPEND 45 MINUTES AND SAVE 5 LIVES?**

On Tuesday, December 4, 1990  
8:30 a.m. to 1:30 p.m.

LOCATION TO BE ANNOUNCED

\*\*\*To make an appointment for a time to donate  
please see Glenda Benner in Challenger 149.





# MSRC



Vol. V, No. 27

November 26, 1990

## Schedule of Events November 26-December 2, 1990

MON	0900	Faculty Meeting - Challenger 165
	1030	DVS Reception - Endeavour 113
	1200	DVS Seminar - Challenger 165 "Social and Environmental Control of Sexual Expression," Robert Warner
TUE	1200	DVS Seminar - Life Sciences Bldg. Rm. 006 "An Experimental Analysis of Sexual Selection in a Coral Reef Fish," Robert Warner
	1530	Special Seminar - Endeavour 113 "Environmental Problems and Biospherics" Sergei Ostroumov
	1700	Soundings Entries Due

WED	1145	MSRC Weekly Seminar - Challenger 165 "The Population Dynamics of Reef Fish" Robert Warner
THU	1145	DVS Seminar - Challenger 165 "Risk and Life History," Robert Warner
FRI	1530	Friday Discussion Group - Challenger 163 AGU/ASLO Practice Talks: J. Aller, P. Rude, M. Allison, A. Figueiredo, J. Rine

Note: This message has just been posted and should be of interest to faculty seeking NSF funds. Malcolm Bowman.

Posted: Tue, Nov 13, 1990

From: L.STEVENS, Council on Ocean Affairs, Washington, D.C.

To: Council on Ocean Affairs Members

Subj: NSF Ocean Sciences Budget

Although NSF has not officially released its budget breakdown from the broad appropriations categories passed by Congress and signed last week by the President, I can report the following from reliable sources:

OCEAN SCIENCES. Increase of 11.8 percent, up from \$147.4 million in FY 1990 to 164.8 million in FY 1991. The Administration had requested an increase of \$18.2 million, or 11.9 percent, so the final increase of \$17.4 million is much closer to the requested amount than had been anticipated. This is remarkably good news for ocean science funding.

ATMOSPHERIC SCIENCES. Increase 10 percent.

EARTH SCIENCES. Increase 13.7 percent.

ARCTIC. Increase 17.7 percent.

U.S. ANTARCTIC PROGRAM is funded at \$175 million.

Overall the Geosciences Directorate increased by 12.83 percent (not including the U.S. Antarctic Program), a significant increase above the 6.4 percent rise for overall NSF research. This reflects the priority NSF has attached to Global Geosciences research, and is a remarkable accomplishment in a tight budget year. For ocean sciences, this is one of the largest increases ever.

## EMPLOYMENT OPPORTUNITIES

The Department of Oceanography, Universite du Quebec a Rimouski has a research associate and a postdoctoral position in estuarine and nearshore hydro dynamics available for a one year period. The salary for the postdoc is \$25,000/annum (CAN. \$). Further details are available in the Main Office.

One of the students who participated in last summer's summer course in the marine sciences, Marysa Nicholson, is interested in volunteering to work in a lab at MSRC during the spring semester. She would be available 3-4 afternoons/week. She is located in Stony Brook and has her own transportation. If any of our faculty have an interest in taking her on, please contact Bill Wise.

## PERSONAL

Truck for sale. 1977 Ford F-150 SuperCab with V8 and automatic transmission. Rebuilt engine has less than 20,000 miles. Some rust on body but truck runs well. Moreover, it has character. \$750. See Bill Wise.

*DR. SERGEI OSTROUMOV'S*

*next seminar on*

**ENVIRONMENTAL PROBLEMS AND**  
**BIOSPHERICS**

*Will be held on Tuesday, November 27th at 3:30 p.m.  
in Room 113 Endeavor*

- 1. MSRC proposal for designing solutions to aquatic environmental problems in Eastern Europe.*
- 2. News from Annual Meeting, Society of Environmental Toxicology and Chemistry (November 11-15, 1990, Arlington, Virginia)*
- 3. Atmospheric Pollution and Pollution of Aquatic and Terrestrial Surfaces via depositions from atmosphere (additional data).*
- 4. Current Environmental News from U.S.S.R.*
- 5. V.I. Vernadsky and Contemporary Concept of the Biosphere.*
- 6. Color slides of Washington, D.C. and Moscow: Art and Architecture.*

*Everyone is welcome.*

# MSRC



Vol. V, No. 29

December 10, 1990

## SCHEDULE OF EVENTS December 10-16, 1990

MON

TUE 1530

Seminar - Endeavour 113  
"Environmental Problems and Biospherics"  
Sergei Ostroumov

1700

Soundings Entries Due

WED 1145

MSRC Weekly Seminar - Challenger 165  
"Paralytic Shellfish Poisoning Dynamics of  
Toxin Transfer from Red-Tide Dinoflagellates  
to Bivalve Molluscs" Monica Bricelj, MSRC

THU

FRI

No Friday Discussion Group for Remainder  
of Semester

Evening

Holiday Party - Challenger 165

## **FELLOWSHIPS/SCHOLARSHIPS**

The American Fisheries Society (AFS) has an annual scholarship for female doctoral students in honor of Dr. J. Frances Allen. Application deadline is March 31, 1991. The AFS also sponsors travel awards from the John E. Skinner Memorial Fund for students to attend the AFS Annual Meeting. Deadline for application is May 31, 1991. Guidelines are in the Main Office.

## **HOLIDAY**

Soundings will be on holiday from December 22 to January 28.

## **REMINDERS**

The next faculty meeting is January 21 at 0900 in Challenger 165.

Timesheets are due by December 15. If you have not received one, please see Christine Murillo. State faculty should sign the roster by the paycheck box.

Please contribute towards the Center's Christmas Tree. Each year we purchase a beautiful live tree for Endeavour Hall's lobby. The contribution can is next to the checkbox in the Main Office.

Volunteers are still needed for the "Bog Clean-up" on December 15.

Please sign up for two hours -- sign-up sheet is outside the Main Office.

## **SHOPPING DAYS TILL CHRISTMAS**

There are only 17 shopping days left!!!!

## **"WHAT'S NEWS?"**

Would any student, staff or faculty member be interested in getting together once a week during spring semester for a "What's News?" BYO lunch? The idea would be to come with a piece of current and interesting or controversial science/education news (not to mention gossip) to share and discuss. No formality, no requirements, no academic credit. If you are interested, contact Val Gerard and let her know if Thursday noon is a good time for you.

## **LOOKING FOR AUTHORS**

MSRC has initiated a new bulletin series. Each bulletin addresses a single topic. All topics must deal with important marine problems at a level appropriate for the general public. If you have an idea for a bulletin or are interested in taking the lead in preparing one, please contact Trudy Bell for details.



## THE FLOWER CORNER

To the anonymous admirer. Great idea. Let's make it a weekly tradition. Flowers can be left on: white Olds., blue Dodge, yellow station wagon with balloons painted on the back (better known as the SUSHI MOBILE), or white Toyota. These are the ONLY cars I currently use. I'll let you know (through the flower corner) if I intend to use other cars. Once again, thanks.

Yuval

P.S. If any of you out there (here) encounter flowers or any other organic (or inorganic for that matter) presents on your windshield, let us (MSRC) know.

## STONY BROOK COALITION FOR PEACE IN THE MIDDLE EAST

To find out about the new Stony Brook Coalition for Peace in the Middle East, contact the GSO office at 632-6492 or John Nolan at 246-5620. There are over 100 members and they are working with other coalitions around the country to have maximum impact.

## FROM THE REFERENCE ROOM

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I received a letter from Mombasa, Kenya this week. It was from another marine sciences librarian, Peter Pissierssens, whom I had

met during the annual conference of the International Association of Marine Sciences Librarians and Information Centers recently held in Seattle. Peter is in the process of establishing a new marine sciences information center in the western Indian Ocean region and has written to me asking for any support that we could provide to him. Unfortunately, we are in much the same budgetary situation as he finds himself. But, his letter makes an excellent point. As Peter writes, "it is only through active communication with the rest of the marine scientific world that excellent science can be carried out." It is clear that a well-equipped marine science library is a primary tool for the transfer of that scientific information. We wish Peter the best of luck in his new endeavour.

As the reference room will be closed Christmas week and as we may be required to close for a period in January, it is imperative that you bring us any needed inter-library loan request as soon as possible. Anticipate your library materials and reference needs

Presenting:

# The Annual M.S.R.C. Christmas Dinner Party

*Friday December 14th 1990 at 7:30 p.m.  
in Challenger hall 165*

\*\* Sign up and prepare a dish for the potluck dinner (sign up sheet is in the mailroom). Don't worry if you can't prepare a dish, you can still participate in this great event by making a donation.