

Meeting Charge: To Review Electron-Beam Ion Sources

Electron-beam ion sources (EBIS) produce the highest charged states of heavy ions, which are used in many of the latest physics experiments and will be needed in Brookhaven's proposed Relativistic Heavy Ion Collider. So, the international symposium on "Electron-Beam Ion Sources (EBIS) and Their Applications," being held at Brookhaven this week, November 14-18, is important not only to the 50 or so participants, but also to most scientists interested in heavy ion research.

The symposium has two objectives: To review progress made in every aspect of EBIS technology, from design to usage, and to draw on expertise of electron-beam, vacuum, cryogenic and magnet technologies in order to improve EBIS performance.

Pictured during a break in the proceedings are the members of the organizing committee. All are from the Alternating Gradient Synchrotron Department, except cochairman Jean Faure, Centre d'Etudes Nucléaires de Saclay, France: (from left) James Alessi, Marion Heimerle, Charles Meitzler, Ahovi Kponou, cochairman Ady Herscovitch, Faure, Ronald Clipperton, Barbara Cox and Lenore Dudzick. Not present was Krsto Prelec.



Peter Horton

DOE Prefers Texas for SSC

A site in the state of Texas is preferred by the Department of Energy (DOE) for the proposed Superconducting Super Collider (SSC), Secretary of Energy John S. Herrington announced on November 10. Nationwide, seven sites had been considered as home for the accelerator, in which two beams of protons will collide with energies of 20 trillion electron volts in each beam.

"The Texas site," Herrington said, "is the location that best meets the goal of the Super Collider site selection process, which is to identify a site that will permit the highest level of research productivity and effectiveness of the Super Collider at a reasonable cost of construction and operation with minimal impact on the environment. Based on the findings of the Site Task Force, it is clear that, whether considered from an overall perspective or from the perspective of individual site criteria, the Texas site is the superior site."

In addition to cost, six technical criteria were used to evaluate the sites. In descending order of importance, they were: geology and tunneling, regional resources, environment, setting, regional conditions, and utilities.

BNL Director Nicholas Samios, a member of the Site Task Force, said of the Texas site, "The geological and regional resources of this site are excellent, and there is strong local support for the project. These are essential attributes for making the SSC a success."

The Texas site is located 25 miles south of Dallas and 35 miles southeast of Fort Worth in Ellis County. The SSC requires 16,000 acres of land, including a campus area and a 53-mile oval band. The state will provide the land at no cost to the federal government. The approximately 200 square miles inside the oval are not part of the site.

Before the Texas site selection is made final, DOE must complete an environmental impact statement (EIS), as required by the National Environmental Policy Act. The final EIS, to be published in early December, must be made public at least 30 days before a final decision. Accordingly, Herrington plans to announce the final site selection in January 1989.

The estimated cost for constructing and equipping the SSC is \$4.4 billion in fiscal year (FY) 1988 dollars. The estimated annual operating budget is \$270 million in FY 1988 dollars. Estimated peak on-site jobs during construction are 3,500. A staff of 2,500 is expected to operate the facility, with 500 visiting scientists on site at any particular time.

Congress appropriated \$100 million in fiscal year 1989 for continued research and development, and preliminary engineering design work on the project.

Inside Info

Analysis of the risks associated with nuclear power plants began at BNL in the 1950's. Today, **Ralph Fullwood** and **Robert Hall**, of the Department of Nuclear Energy, are involved with these analyses, and they have recently published a book on the subject: *Probabilistic Risk Assessment in the Nuclear Power Industry*. The book examines such issues as measures of risk, public perception, safety goals, mathematics of risk, nuclear plant design, mathematical models and evaluation of models and results. It also points out the strengths and weaknesses inherent in such evaluations with current data limitations.

Superconducting Wiggler Is Super Successful



Roger Stoutenburg

Standing by the superconducting wiggler are: (front, from left) Cosmore Sylvester, William Cahill, Glenn Decker, Ed Meier, Joe Sheehan; (back, from left) Andreas Warkentien and Michael Iarocci.

On Friday, November 4, the first superconducting wiggler designed for the x-ray ring of the National Synchrotron Light Source (NSLS) successfully passed testing, which has been conducted over the past three months: As expected, the magnet quenched, or made a transition from the superconducting state to the normal state of electrical resistivity, at a magnetic field of 5.5 teslas (T), with 230 amperes (A) of current.

Once inserted into a straight section of the x-ray ring in February, as part of the NSLS' Phase II upgrade, the wiggler will operate at a maximum field of 5.2 T, with 215 A current, providing hard x-rays with energies up to 100 thousand electron volts (KeV). These x-rays will be used for medical and materials science research on beam line X-17B, and for high-pressure physics studies on X-17C.

The superconducting wiggler is a high-field magnet that wiggles the electrons circulating around the synchrotron ring, causing them to radiate a greater intensity of high energy x-rays than are emitted by non-superconducting insertion devices or bending magnets.

When fully commissioned in 1989, the superconducting wiggler will produce, for instance, x-rays at 10 KeV that are four times more intense than from a bending magnet, and x-rays at 33 KeV that are more than 85 times more intense. This device will be comparable to superconducting wigglers at light sources in Japan and England.

The magnet consists of seven iron poles, around which superconducting niobium-titanium wire has been wound into a two-layer coil. When cooled to near absolute zero by liquid helium within a cryogenic system, the superconducting magnet loses all electrical resistance, so the electricity necessary for magnetization can flow through the coil unimpeded.

Hank Hsieh and his Engineering Section designed the magnet, while Michael Iarocci designed its cryogenics system. The electronics were designed and constructed by Robert Larson, Joseph Sheehan, Ed Meier and William Cahill. Robert Breck built the magnet, and Andrew Warkentien assembled the magnet's cryostat and carried out low-temperature testing, with the support of Cosmore Sylvester. Magnetic measurements were carried out by John Galayda and Glenn Decker. The magnet's control system was designed by Jack Tallent, Om Singh and John Flannigan.

Patent Awarded

U.S. Patent No. 4,728,862 has been awarded to Research Engineer **Vincent J. Kovarik** and Physicists **Ady Herscovitch** and **Krsto Prelec**, all of the Alternating Gradient Synchrotron Department, for inventing a method for achieving ignition of a low-voltage gas-discharge device.

In a gas-discharge device, most of the electric current is carried by electrons in a plasma formed between the cathode and anode. In order to maintain an ongoing discharge, electrons have to be supplied to or created in the plasma. In hot-cathode discharges, most of the electrons are emitted by the hot cathode, which usually operates at temperatures exceeding 2,200°C.

To reach these temperatures, the cathode can be physically heated. Or, the gas can be electrically broken down so that it creates positive ions,

which bombard and heat the cathode. When the cathode reaches the appropriate temperature, it emits electrons, and the gas discharge is established.

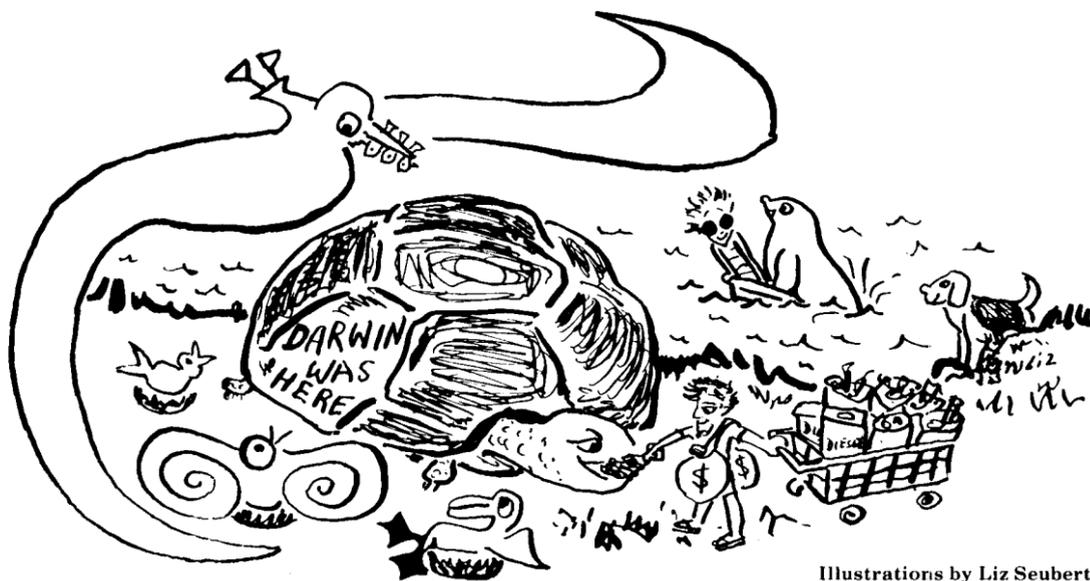
The problem with existing techniques is that very high voltages are required to give electrons energies high enough to ionize gas atoms. Often, too, the gas pressure has to be raised to increase the chances for ionization.

In the new invention, the cathode is heated by ionic bombardment. However, incorporated in the design is a region with a combined electric and magnetic field between the anode and cathode. The field is oriented so that the distance electrons must travel before reaching the anode is greatly increased, allowing much larger numbers of gas atoms to be ionized. This considerably decreases both the gas pressure and the voltage needed.

This invention, therefore, provides gas breakdown initiation without high voltages, heaters or temporary increases in gas pressure.

Retirement Notes: Setting Sail, Part II

Retiree Robert Louttit and his wife Anne moved permanently onto their 37-foot, cutter-rigged sailboat in June 1986. This is the second part of a recent letter he wrote to BNL's Patricia Tuttle, the Louttits' land contact in the U.S., recounting their adventures and travels.

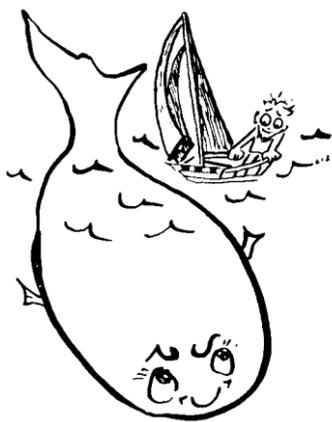


Illustrations by Liz Seubert.

We did make one more stop before heading for the Galapagos, at the island of Contadora, where the Central American Peace Plan was worked out. It is a beautiful, well-developed resort island with big hotels, condominiums, restaurants and many expensive homes. But there was no one there! Easter week! We went into the biggest hotel to look around. The doors were open and there was music playing on the P.A. system, but it was deserted.

Finally, in the kitchen, we discovered two people talking. They turned out to be the manager and the chef. They were delighted to have someone to talk to — even a scruffy-looking bunch of yachties (three other boats had come with us). They said the hotel had been booked solid for that weekend, months in advance, and every single person had cancelled. Foreigners were afraid to come to Panama and Panamanians couldn't spare the cash. But for us — well, OK, they'd accept credit cards if we wanted dinner, just so they'd have something to do that evening. So we seven were the only people in a 50-table hotel dining room, and the chef himself cooked our dinner. It was weird, but fun.

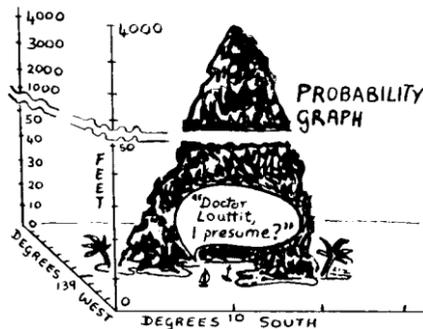
The eight days to the Galapagos, much of it motoring through the doldrums (marked by crossing the equator at 87°W on Easter Sunday, but more notably by a whale which surfaced 20 feet from the boat, headed straight for us. I was sure he would hit us and shouted at Anne and grabbed hold of the boom gallows to avoid being thrown overboard. But he just managed to clear our keel as he dove under us with hardly a ripple.



The Galapagos might have been anticlimactic after that, but they weren't. Before we left (we spent ten days there on the excuse that we needed the time to reprovision for our long trip to the Marquesas — yachts nominally are only allowed three days), we had fed 400-pound tortoises, walked among nesting blue-footed boobies, swallowtail gulls, albatrosses and many other birds, and conversed with sea lions (one almost turned our dinghy over when he tried to get in it). We cashed traveler's checks! We bought groceries and diesel fuel! We love the Galapagos!

— And now it is 8 May, and we are anchored right under the peak of a

4,000-foot mountain on the island of Hiva Oa in the Marquesas, at about 10°S, 139°W. It took us only 20 days to get here, which is the record for all the boats here. As we approached the harbor, one other boat was approaching also, and it turned out to be our old friends on *Ziggurat!* They had not planned to go to the Marquesas, so we hadn't expected to see them again until New Zealand. We've been having a lot of fun with them since we got here.



The 20-day trip was an uneventful succession of sunny days with 15 to 20 knot winds, marred only by a couple of days with no wind, one rain squall and the loss of a beautiful, big mackerel just as we were getting ready to gaff him. The latter event put Anne in a blue funk all day. We did catch five small dolphin fish on different days — each just big enough for our supper. However, we have found that the Marquesas do not contain a Xerox machine, so this letter will have to wait —

— Now it is 27 June and we are moored with our stern almost touching the beach in downtown Papeete, Tahiti. Anne is so excited to be in a real city for the first time in four months that she hardly touched the ground. We have arrived during the festivity preceding Bastille Day, so it has been a steady round of 16-meter canoe races, reenactment of the coronation of ancient Polynesian kings, Polynesian dance contests and meals in restaurants.

The contrast with our last port of call is hard to absorb. There, on the tiny atoll of Toau in the Tuamotu, we anchored in front of a village with a total population of three people. They live on what they can get from the lagoon and the sea, plus what they can buy with the copra from their many coconut palms. It is quiet. And very peaceful.

They told us that they normally only have one or two yachts a year who visit their lagoon, and that they had never had three at one time. With three yachts there (all friends), the local Polynesians decided that they must have a feast for us to mark the occasion. So on the evening agreed, we went ashore to a meal like few others we've had.

There were about a dozen people altogether, to eat a washtub filled with steamed lobster; three different kinds of chicken, raw fish, rice, potatoes, sauces, etc. There were drinking coconuts split open on demand, and

Tahitian beer to drink. After the meal they entertained us with traditional songs accompanied by Spanish and Polynesian guitars.

One of them took me aside during the evening and made me promise to tell them the day before we were going to leave, so they could do it again! When I said they had already been too kind to us, he said: "No, you don't understand. This is the most wonderful time we ever had. It would be unfair for you to leave without giving us another chance."

In the end, we invited them out to one of our boats for an afternoon of "conversation" (I was the only one who spoke both French and English), chocolate cake (which they loved beyond all things) and coffee. We presented them with a handsome visitor's book to keep track of the few yachts that come there, complete with pictures of all our boats and messages from us. This brought tears to the eyes of at least one of them, and it made quite a touching ceremony.



Toau was also a spearfisherman's paradise. No more than half an hour's notice before Anne wanted to start cooking dinner was required for me to get a nice big grouper. It took a couple of days to get used to snorkeling among the sharks, but the local people do it every day and convinced me that the danger was very small, as long as you get wounded fish out of the water right away. So I towed the dinghy behind me as I swam, for that purpose. It even lent a certain excitement to a task, which was otherwise almost too easy.



... Around the middle of July, we will move on to Moorea and then to the Isles Sous le Vent. In early September, we will leave French Polynesia and head for Samoa with a stop at Suvarov. Tonga in October and New Zealand in November, just as summer is beginning. Hurricane season will keep us in N.Z. for about five months and then — who knows?

— Robert Louttit

In Memoriam

David D. Jacobus, who was the Laboratory's chief mechanical engineer when he retired in February 1970, died on November 9 at the age of 88.



Jacobus joined the fledgling BNL as an engineer in the Reactor Science & Engineering Department, in October 1949, and stayed until 1957, when he went to Harvard to work on the electron accelerator being built by Harvard and the Massachusetts Institute of Technology. He returned to Brookhaven in 1966, as Senior Mechanical Engineer in the Accelerator Department. After his retirement in 1970, he continued in the Accelerator Department as a consultant, until 1977.

During the 19 years he worked at BNL, Jacobus was involved in the mechanical engineering for several "big machines," including the Brookhaven Graphite Research Reactor, the Cosmotron and the Alternating Gradient Synchrotron.

He was a resident of Bellport and is survived by his wife Elinor; two sons, David P. Jacobus of Princeton, and John H. Jacobus of New York; and five grandchildren.

Contributions in memory of David D. Jacobus may be made to the American Cancer Society.

Software Demos

On Tuesday, November 22, Harold Lund of Direct Technology, Inc., will describe and demonstrate The Automator, a software robot that monitors events on the screen, keyboard, clock and communication ports, and takes appropriate action, thus allowing unattended operation of personal computers. The demonstration will take place at 2 p.m., in the Computing & Communications Division (CCD) seminar room, on the second floor of Bldg. 515.

On Wednesday, November 30, William Wagner of Hazeltine will talk about "Romance, Murder and Software Configuration Management," at 2 p.m. in the CCD seminar room, on the second floor of Bldg. 515. He will give a software engineer's idea of what software configuration management (SCM) is about and how to do it. To illustrate the heritage and methods used for SCM, Wagner will discuss the parallels between SCM and criminalistics (the "porthole murder") and piracy (Captain Kidd), as well as navigation, manufacturing and the theater.

Holiday Notices

Brookhaven Bulletin

Because the Lab will be closed for the Thanksgiving holiday on Thursday and Friday, November 24 and 25, the Bulletin will not be published next week. The deadline for submission of ads for the next issue, December 2, is noon on Tuesday, November 22.

At this time each year, the Bulletin publishes a listing of the names and addresses of all retirees and employees on long-term disability. Look for that supplement in a special distribution next week.

Notes to Diners

The Cafeteria will operate only the snack bar service from 9 a.m. to 2 p.m. daily over the Thanksgiving holiday weekend: Thursday, November 24, through Sunday, November 27.

The Brookhaven Center will be closed Thursday through Saturday, reopening at 5 p.m. on Sunday, November 27.

The vended food service in Bldg. 912 will be in operation throughout the Thanksgiving holiday.

Wanted: Toys for Kids



Roger Stoutenburgh

Louisa Barone displays some of the toys that have already been contributed by BNL employees to the 1988 INTERFACE Toys-for-Kids Drive. The drive, which is organized by Brookhaven Town to provide happy holidays for needy young people in our local communities, will continue through Friday, December 2. You can drop off donations (wrapped, if possible) at the BERA Sales Office, weekdays, from 9 a.m. to 2 p.m. New toys and gifts are preferred, for infants through teens. To volunteer to help sort the toys, call Barone at Ext. 3347, or sign up when you bring in your donation.

Choral Group Concert Rehearsals

The BNL Choral Group will present a Christmas Concert in the Cafeteria during lunchtime on Wednesday, December 21. Rehearsals for this concert will be held on the following Tuesdays and Thursdays in the North

room of the Brookhaven Center: November 29, and December 1, 6, 8, 13, 15 and 20.

Each rehearsal will begin at noon sharp and is expected to last half an hour. All parts are needed, so please join us. For more information, call John Weeks, Ext. 2617, or Janet Sillas, Ext. 2345.

Bowling

Purple League

High games for two weeks were bowled by Cheryl Miezianka 239/194/189, Ed Beadle 212, Caryl MacDougall 186, Rob Simes 216, Joe Mayeski 209, Jim Petro 208, Paul Calligari 208, Ben Belligan 204, Gene Hassell 200, Pat Oster 182.

White League

Sharon Smith rolled a 191, Ed Meier 233, Ken Riker 203, Ed Sperry IV 201, Kay Conkling 186.

Red/Green League

R. Mulderig bowled a 222, J. Ferrante 206, J. Muller 202, K. Asselta 201, M. Guacci 201, P. Ouvrard 200.

Pink League

Sandy Asselta had a 186, Maryann Reynolds 178/176. Women bowlers are still needed in this Tuesday night league, both full and part-time.

Volleyball

Standings — week of November 7

League I		League II	
Dinkers	10-2	Nuts & Bolts	12-0
Xrayted	9-0	Set-Ups	10-2
Upfagrabs	8-1	Fossils	7-5
Phoubars	3-9	Krush	7-5
Netminders	2-10	Slammers	4-8
Cannonballs	1-11	Ziegfield Veggies	4-8
		Chunga's	
		Revenge	2-10
		Upton-Ups	2-10
League III		Open League	
Frazzled	12-0	Dig Your Lips	10-2
Sourcerers	8-4	Tom's Mutants	9-3
MISfits	7-5	Magnum	7-2
High Volley'em	6-6	Meriem's Team	7-2
Spikes	5-7	Phoenix	6-3
Printouts	4-8	Veggies	5-7
Good Timers	3-9	Rowdy Radicals	3-9
Renegades	3-9	Pi Chu	1-8
		Constables	0-12



**Do Your Holiday Shopping
At the Science Shop
At the Exhibit Center, Bldg. 701
Fridays, December 2, 9 and 16
10 a.m. to 3 p.m.**

BROOKHAVEN BULLETIN

Published weekly by the Public Affairs Office for the employees of BROOKHAVEN NATIONAL LABORATORY

ANITA COHEN, Editor
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Cashier's New Hours

Effective Thursday, December 1, the Cashier's hours will change. The new hours will be:

- Open — *8:45 a.m. to 9:15 a.m.
- Closed — 9:15 a.m. to 10:00 a.m.
- Open — 10:00 a.m. to 1:00 p.m.
- Closed — 1:00 p.m. to 2:00 p.m.
- Open — 2:00 p.m. to 3:00 p.m.
- Closed — 3:00 p.m. to 3:15 p.m.
- Open — 3:15 p.m. to 4:45 p.m.

*On Fridays, the Cashier will open at 7:45 a.m.

The Cashier is located in the Fiscal Division, Bldg. 134.

Breaking the Chain

A rash of chain letters has been circulated at BNL over the past several weeks.

"Management at BNL is well aware of this," said BNL Business Manager Bernard McAlary. "Coincidentally, management is also involved in renewed efforts to control waste, fraud and abuse. Certainly the time and materials being devoted to the production and distribution of chain letters can be seen as waste, fraud and abuse."

McAlary advises employees that chain letters detected by the Mail Room are being intercepted and disposed of after some effort to determine their source. He also emphasizes that chain letters are in violation of Laboratory policy and are strongly discouraged, and employees participating are subject to reprimand.

Trip to Atlantic City

All BERA members, their families and friends are invited to sign up for the BERA Board's next bus trip to Atlantic City.

The date is Saturday, January 21, 1989, and the trip is to the Tropicana Casino. The initial cost of \$20 per person includes round-trip bus fare, but the casino will return \$10 in coins to each person, plus a \$5 deferred voucher — so, this trip actually costs only \$10.

Sign up immediately! Prepaid reservations will be taken on a first-come, first-served basis at the BERA Sales Office in Berkner Hall, from 9 a.m. to 2 p.m., Monday to Friday. No refunds will be made unless someone else wishes to purchase the ticket. A waiting list will be kept.

The plan calls for two buses to leave the Brookhaven Center promptly at 9 a.m., returning around 11 p.m. An additional stop will be made at the Long Island Expressway Exit 63 Park & Ride, if desired.

For more information, call Louisa Barone, Ext. 3347; or Rosalie Piccione, Ext. 3160.

Swim Club

Six BNL swimmers brought home 23 ribbons for top-three, age-group finishes from the Mid Island YM-YWHA Fall Classic masters swim meet, on Saturday, November 12. In addition, Maryanne Kmit placed first overall among women in the 100-meter freestyle.

50-meter Freestyle		
Peter Heotis	29.08	3rd men 35-39
Wlodek Guryn	30.48	8th men 35-39
Paul Michael	37.28	5th men 60-64
Marsha Belford	37.88*	3rd women 30-34

100-meter Freestyle		
Peter Heotis	1:04.93	2nd men 35-39
Maryanne Kmit	1:15.93	1st women 20-24
Marsha Belford	1:22.20*	4th women 30-34
Paul Michael	1:30.02	4th men 60-64

200-meter Freestyle		
Peter Heotis	2:29.31	2nd men 35-39
Maryanne Kmit	2:46.84	1st women 20-24
Marsha Belford	2:55.91*	1st women 30-34

50-meter Butterfly		
Peter Heotis	32.14	3rd men 35-39
Maryanne Kmit	39.10	1st women 20-24
Paul Michael	44.51	1st men 60-64
Ron Wittlock	47.37	4th men 50-54

100-meter Butterfly		
Peter Heotis	1:16.61	2nd men 35-39

50-meter Backstroke		
Ron Wittlock	38.06	1st men 50-54
Wlodek Guryn	40.52	5th men 35-39

100-meter Backstroke		
Ron Wittlock	1:24.56	1st men 50-54

200-meter Backstroke		
Ron Wittlock	3:08.20	1st men 50-54

50-meter Breaststroke		
Wlodek Guryn	39.64*	1st men 35-39
Marsha Belford	48.68	3rd women 30-34
Paul Michael	52.84	2nd men 60-64

100-meter Breaststroke		
Wlodek Guryn	1:27.26	1st men 35-39

100-meter Individual Medley		
Wlodek Guryn	1:19.54	2nd men 35-39
Maryanne Kmit	1:27.00	1st women 20-24
Ron Wittlock	1:34.22	2nd men 50-54
Marsha Belford	1:38.35	2nd women 30-34
Paul Michael	1:53.70	2nd men 60-64

*Indicates personal record.

Astronomical Society

Dress very warmly and come to view Mars and Jupiter at the Astronomical Society's open observatory night, 7-9 p.m. this evening. Admission for nonmembers is \$1. Call Keith Power, Ext. 7772, beforehand, to check on weather conditions.



Roger Stoutenburgh

The most recent first-time Team Safety winners were the members of the Plant Engineering Division's Electrical Team: (seated, from left) Ron Tallon, Juan Aguilar, George Elias; (front, from left) Don Jesaitis, Jose Sanchez, Jim Miles, Rodney Chliek, Tom Butler, Bill Schmidt, Bob Jeffries, Matt Conforte, John Kenny, Leonard Bacelli, Tom Northan, Richie Bernier, Paul Akins, Jim Boomer; (back, from left) Min Yang, Tony Weaver, Dan Carneiro, Norman Besemer, Al Liotta, Cindy Morgan and John Passaro. Not pictured: John Barry, Buddy Baumbach, Barney Brehm, Roy Butler, Jim Carroll, John Cochrane, Brian Collinson, Al Cordero, Robert Ellis, Charlie Geonie, Gasper Giarratano, Bart Giuliano III, Wally Hughes, Denis Joyce and William Osborne.

Week seventeen of the Team Safety* program is history, and again the news is good. All teams continued their lost-time, accident-free records despite several close calls. Two back sprains almost caused problems for a pair of our teams, but the commissioner is happy to report there was no lost time involved in either case.

The league is currently negotiating several new deals. Another upstart team is trying to buy in, and the front

office is waiting for their best offer. There may be a new team with us by December 1. The league committee will meet next week to discuss the next phase of the Team Safety program. All suggestions are welcome. Meanwhile keep your mind on the game and safety!

*Twenty-six teams are participating in the Lab's Team Safety program. As a team reaches its time goal without any lost-time injuries, team members are being rewarded for their safe practices with a luncheon.

To the Editor

Vehicles traveling west on the IIE and exiting onto the northbound William Floyd Parkway at Exit 68 should be extremely cautious. Several times a week, vehicles have been spinning out due to uneven surfaces, wet pavement, surface oil, improper entrance into oncoming traffic, etc. Fortunately, no one has been seriously injured.

Mary Cooper, Computing & Communications Division

Arrivals & Departures

Arrivals

Brenda E. Bryant MIS
Louis Mondini Central Shops
Kevin L. Nelson DNE
David B. Phillips AGS

Departures

This list includes all employees who have terminated from the Laboratory, including retirees:

Michael G. Blewitt Biology
Linda R. Bodenmiller Plant Eng.
Mario E. Cerritelli Biology
Anthony P. DeLibero Inst.
Paul S. Furciniti Biology
Neal L. Oden DNE

Note to Employees:

Attendance at lectures, meetings and other special programs held during normal working hours is subject to supervisory concurrence.

Cafeteria Menu

Week of November 21

Luncheons

Monday, November 21

Soup: Beef barley	(cup)	.75
	(bowl)	.95
Pasta w/ turkey & veg.		2.85
Stir-fry beef over rice		3.10
Lite-line: Tuna salad plate		2.25
Hot deli: Teen twist sandwich		2.85

Tuesday, November 22

Thanksgiving dinner special

Soup: Turkey noodle	(cup)	.75
	(bowl)	.95
Cornish hen w/ dressing & veg.		3.95
Baked ham, sweet potato & veg.		3.85
Hot deli: Roast beef		2.85

Wednesday, November 23

Soup: Split pea	(cup)	.75
	(bowl)	.95
Southern-fried chicken & veg.		3.10
Ziti w/ meat sauce & garlic bread		3.10
Broiled chicken & veg.		3.00
Grilled Reuben sandwich		2.85

Thursday, November 24

Friday, November 25

Snack bar service — 9 a.m. to 2 p.m.

Breakfast specials

Monday: Scrambled eggs & bacon	1.15
Tuesday: Pancakes & sausage	1.10
Wednesday: Beef hash & egg	1.50

Holiday Hams

Let the Cafeteria cook and garnish your holiday ham for Thanksgiving. At \$2.15 per pound, plus tax, these smoked, bone-in hams average 14 to 19 pounds. To reserve your holiday ham, call the Cafeteria at Ext. 3541.

Help Wanted at Cafeteria

Marriott Corporation, which runs the Cafeteria, has positions available. Marriott Corporation is an equal opportunity employer. Anyone interested may apply in person at the Cafeteria. For more information, call Ext. 3541.

Classified Advertisements

Placement Notices

The Laboratory's placement policy is to select the best-qualified candidate for an available position, with consideration given to candidates in the following order of priority: (1) present employees within the department and/or appropriate bargaining unit, with preference to those within the immediate work group; (2) present employees within the Laboratory as a whole; and (3) outside applicants. In keeping with the Affirmative Action plan, selection decisions are made without regard to age, race, color, religion, national origin, sex, handicap or veteran status.

Each week, the Personnel Office lists new personnel placement requisitions. The purpose of these listings is, first, to provide open placement information on all non-scientific staff positions; second, to give employees an opportunity to request consideration for themselves through Personnel, and, finally, for general recruiting purposes. Because of the priority preference policy stated above, each listing does not necessarily represent an opportunity for all candidates. As a guide to readers, the listings are grouped according to the anticipated area of recruitment.

Except when operational needs require otherwise, positions will remain open for one week following publication date.

For further information regarding a placement listing, contact the Employment Manager, Ext. 2882.

LABORATORY RECRUITMENT - Opportunities for Laboratory employees only.

3018. SPECIAL ASSISTANT TO THE ASSOCIATE DIRECTOR - Reports to the Associate Director for Administration (ADA). Responsibilities include, but will not be limited to, the development and implementation of those policies and procedures under the jurisdiction of the ADA and functioning as the primary assistant to the ADA in carrying out specific, assigned responsibilities. Position will require frequent communications within the Laboratory at all levels and with officials of the DOE and other organizations. Individual will be given considerable latitude and responsibility in carrying out assigned functions and therefore, must be highly motivated, possess a high degree of initiative, professional judgment, and independent thought. Requires a BBA/MBA or equivalent, demonstrated leadership qualities, technical competence in administrative functions and excellent analytical and communications skills. Extensive knowledge of Laboratory operations and BNL and DOE policies, procedures and practices are required. Director's Office. Please submit resumes to Marsha R. Kipperman, Personnel Division, Building 185.

3019. FIREFIGHTER/EMT - Previous substantial firefighter experience is required. Completion of New York State EMT course and possession of training certificate is highly desirable; if not, completion of course within one year is required. Must be willing to work shifts at the completion of a 13-week training period. Safety & Environmental Protection Division.

3020. FACILITIES OFFICE ASSISTANT - Responsibilities will include preparing and maintaining records, reports, work orders and files, performing computations, typing correspondence and reports. Typing skills and previous office experience required. Plant Engineering Division.

3021. LAMP CLEANER - Plant Engineering Division.

OPEN RECRUITMENT - Opportunities for Laboratory employees and outside applicants.

3022. ENGINEERING POSITION - Requires a BS in mechanical, electrical or nuclear engineering with at least two years' experience. Candidates should be familiar with reactor safety criteria and nuclear standards, codes, and guides. Will complete engineering reviews and studies for the High Flux Beam Reactor, review NRC and industry criteria and experiences for applicability, and perform analysis of reactor performance indicators. Excellent written and oral communications are necessary. Must be able to obtain and maintain a DOE "O" clearance. (Reposting of Job #2981) Reactor Division.

3023. TECHNICAL POSITION - Requires AAS in electro-mechanical technology or equivalent to work in AGS main magnet power supply group. Previous high voltage experience required. Must be able to operate large rotating equipment. Work will involve lifting, climbing and rotating shifts. Alternating Gradient Synchrotron Department.

3024. ELECTRICIAN A - Under minimum supervision lays out, constructs, installs, maintains, repairs and operates electrical systems, equipment, controls and related devices. Plant Engineering Division.

3025. ENGINEERING POSITION - Requires BS in a safety-related field or equivalent and several years of experience. Will provide health and safety guidance to various construction projects at BNL, including monitoring and inspection activities at asbestos-abatement sites. Knowledge of OSHA construction safety requirements (29 CFR 1926) is necessary. (Reposting of Job #2978) Safety & Environmental Protection Division.

Motor Vehicles & Supplies

86 OLDS CALAIS - 2-dr., a/c, a/t, velour int., mint, \$7,500. Ext. 3163 or 286-1024 after 6 p.m.

86 HONDA CRX SI - a/c, stereo, moonroof, black, \$6,000. Bruce, Ext. 2238.

86 BUICK SKYHAWK - a/t, a/c, p/w, p/s, cruise, am/fm cass., excel. cond., \$7,000. Sydel, Ext. 3389 or 727-6385.

83 CHEVETTE - 39k mi., new exhaust, new battery, excel. cond. 369-1006 after 5 p.m.

82 VW RABBIT - 4-dr., am/fm, 4-spd., excel. cond. Mark, Ext. 4289 or 281-5060.

82 TOYOTA 4x4 PICKUP - fiberglass cap, 61k mi., good cond. Pete, 475-0831 after 5 p.m.

82 BUICK CENTURY LTD - 4-dr., V-6, a/t, a/c, full power, new brakes, exhaust, complete front end, \$3,550. 269-9510 eves.

82 CHRYSLER LeBARON - a/t, a/c, am/fm cass., new tires, 4-dr., excel. cond., \$3,200. Ext. 2876 or 878-2702.

82 DATSUN 310 - 4-dr., hatchback, a/t, am/fm, 76k mi., good cond., \$1,500. Ext. 4004 or 286-0934.

81 PLYMOUTH RELIANT K - station wagon, 65k mi., 2.6L Mitsubishi engine, a/c, p/s, p/b, am/fm stereo cass., clean, \$2,150. Ext. 4364 or 286-1709.

81 PONTIAC FIREBIRD - 87 V6, 20k mi., new exhaust, tires, water & fuel pump, am/fm stereo cass., clean, \$1,750. Kathy, 543-1762 after 5 p.m.

81 PONTIAC T-1000 - a/t, p/b, a/c, 89k mi., am/fm, wine color, excel. in/out, needs choke & thermostat, \$1,100 neg. Bill, Ext. 4312 or 281-6498.

80 MERCURY ZEPHYR - a/t, p/s, p/b, cass., good tires, \$600 neg. Alison, Ext. 4410/4514 or Chris, Ext. 4149/5611.

80 HONDA CIVIC - hatchback, a/t, cass., 63k mi., runs well, needs some body work, \$400. 433-4615.

80 MONTE CARLO - V-6, a/t, p/s, p/b, a/c, 98k mi., needs work, best offer. Ext. 2498.

80 DODGE ASPEN - a/t, a/c, 70k mi., \$850. 929-6646.

79 FIREBIRD - 86k mi., dark blue, light blue int., excel. in/out, \$3,000. 696-1745, leave message.

78 PLYMOUTH HORIZON - new parts, \$500. Ext. 4597 or 924-8213 after 6 p.m.

78 DATSUN 280Z - light blue, 5-spd., am/fm cass., a/c, sunroof, new engine, 4 tires & more, mint cond., \$4,000. Ext. 4931.

76 DATSUN - 8' body w/cap, 4 new tires, radio, runs well. 475-3553.

74 CHRYSLER IMPERIAL - strong 440 engine, bad trans., good for parts, \$200. Harry, Ext. 3783.

73 VW TYPE 3 - square back, needs work, body good, best offer. 732-6563.

STARCRAFT SLIDE-ON CAMPER - 11 1/2', fully self contained, shower, heat, refrig., freezer, oven, \$2,000. 929-5872 after 6 p.m.

SLIDE-ON CAMPER - 9 1/2', sleeps 4-5, stove, ice box, vanity, good cond., best offer. 447-1398, leave message.

DATSUN 210 - hatchback, runs well, body poor, high miles, reliable, \$200 or make offer. 924-7476.

TIRES - radial snow, w/studs, 175x13 Yokohama steel belted w/9k mi., \$70/pair. Larry, Ext. 5611 or 281-2002 eves.

TIRE - new, 721 Firestone, 235/75R15, Eldo rim, \$75 neg. Ernie, 588-4987.

ROOF RACK - Yakima, aluminum bars, rain gutter, clamp, good cond., \$25. Rau, Ext. 3864.

MAG WHEELS - 15" factory, for LTD, set of 5; 215 B7815 tires, 2, w/w. Ken, 289-8212.

Boats & Marine Supplies

31' CORVETTE - keel, cb, sloop, classic beauty, excel. cond., \$18,000. Ext. 2053 or 363-2796.

24' BAYLINER - 1976, f.b., cabin, new motor, excel., many extras, best offer over \$6,000. 289-0883.

EVINRUDE ENGINE - 115-h.p. outboard, Starflite, good for parts. Pete, 475-0831 after 7 p.m.

SINGLE LEVER CONTROL - & cables, for Morse twin engine, \$65 neg. Ernie, 588-4987.

Furnishings & Appliances

DINING ROOM FURNITURE - lighted glass break-front, buffet, 4 chairs, tressle table, leaves, pads. 549-7624.

LIVING ROOM SET - sofa, couch, chair, \$75. 399-3712.

PLATFORM BED - queen or full, \$35; folding chairs, \$8/each; Oriental rug, \$25. 929-3987 eves.

WATER BED - queen-size, new heater, 4 drawer pedestal, mint cond., best offer. 447-1398, leave message.

HI-RISER BED - mattress, 2 bolsters, quilted cover, like new, \$75. 475-1254.

DRESSER - w/mirror, hardwood, good cond., \$100. Scott, Ext. 3369 or 758-7114.

CHINA CLOSET - 1940's \$50; late-1800's brass-plated bed, \$85; 21-piece weights, \$40; bench press, \$50. 878-6637.

WASHING MACHINE - Sanyo, portable, \$50. Carol, Ext. 2673 or 744-8632.

SCREEN - 3-section, 78x77, amber plastic, bottle-glass pattern, oak frame, \$10. Ext. 2981 or 744-1440.

ICE CREAM PARLOR BOOTH - 1950's, complete, functional, asking \$275. 231-8274.

MAPLE TABLE - drop-leaf, 4 ladder-back rush chairs, \$125; pine dining room table, drop-leaf, 4' long, \$40. 589-0625.

Tools, House & Garden

STORM DOOR - 30x79 1/2, \$25. Bill, 472-4684 after 6 p.m.

POINSETTIAS - red, flourist quality, various sizes, low prices, delivery around Dec. 8. 727-6818 after 3:30 p.m.

LEAF BLOWER - push-type, 5-h.p. Tecumseh engine, large spoked wheels, low hours, \$100. 744-4611.

SNOW PLOW - for ride-on mower, \$50; huge black trunk for storage, \$25. 689-7963.

WOOD STOVE - Vermont Castings Vigilant, excel. cond., \$450. Rau, Ext. 3864.

COAL HEATER - Chubby, excel. cond., orig. \$300, sell for \$100. Harry, Ext. 3783.

GREENHOUSE - poly-type, 22'x100', heating, fan, sprinkling & hanging plant watering system, galv. pipe. Jim, Ext. 4040 or 289-0876.

LAWN MOWER - Lawn Boy, 21", deluxe, self-drive, w/mulcher attachment, 1-year-old, excel., \$250. Dan, Ext. 4987 or 698-7322.

LEAF EATER - shredder, electric, used once, \$60 or best offer. 331-8665.

PIZZA OVEN - commercial, electric, 24x18, excel. cond., asking \$50. Tony, 698-9274.

HUMIDIFIER - excel. cond., \$20. Peter, Ext. 4094 or 751-6575 eves.

WATER PUMP - Gould, 1-h.p., w/tank, 140V, jet or shallow, excel., \$50. Tom, Ext. 4084 or 878-1060.

TABLE SAW - Craftsman, 8", like new, \$65. Al, Ext. 7588.

SOLAR COLLECTOR - & tank; Conn. clam rake; reg. clam rake; double stainless sink; Pioneer FM tuner. Ron, Ext. 4715 or 289-1003.

Sports, Hobbies & Pets

POOL TABLE - 4'x8', good cond., \$100 or best offer. 744-5079.

BICYCLE - 20-year-old, 1-spd., \$5; Wastle skis, 2 pairs, 180cm & 185cm, Look Nevada bindings, \$40/pair. Rich, Ext. 3979.

TRAINS - N gauge, 3 engines, assorted cars, 65' track, 2 power packs, switches, crossovers, houses, etc., \$175. Bob, Ext. 4782.

COLLIE PUPPY - sable, female, whelped 7/1, champ lines, house-broken, shots, intelligent & sweet, \$350. Maria, Ext. 3228 or 924-3756.

Audio, Video & Computer

HARD DISK - IBM, 10k, used, \$50. 473-2473.

SOFTWARE FOR ATARI ST - 107 disks, w/P.L. board designer & 5 books w/tips, \$250. Glenn, Ext. 5439.

COMPUTER - Commodore 6H, two 1541 disk drives, monitor, \$175. 727-7741.

DIGITAL ORGAN - Wurlitzer D-40, Funmaker II, spinet w/bench, 2-44 note kybds., 1-25 note syn. kybd., orig. \$4,100, sell for \$1,200. 744-3926.

SPEAKERS - Wharfedale, 4-way, 2-crossover, 12 1/2" wuffers, 7" mids, Dome tweeters, \$120. Ext. 2981 or 744-1440.

Miscellaneous

WINTER COAT - women's long, pink, 80% down, never worn, \$40; hiking boots, size 6, never worn, \$20. Ext. 5403 or 821-3373.

MINK COAT - full length, natural beige, petite 8-10, full skins, \$600. John, 924-4262.

ENCYCLOPEDIA BRITANNICA - 1988 set, w/bookcase, orig. \$1,500, asking \$800; Royal electric typewriter, \$50. 472-2301.

SWING - Fisher Price, orig. \$67, sell for \$40; Fisher Price airplane jumper, orig. \$25, sell for \$15, both like new. 924-7476.

TICKETS - 2, N.Y. Philharmonic, Lincoln Center, Dec. 3, discount box. Hugh, Ext. 4773 or Virginia, Ext. 2874.

CHILDREN'S SWEATERS - hand-made, very reasonable prices. Susan, 331-5642.

WEDDING GOWN - w/vail, size 7, designer original, needs cleaning, orig. \$500, sell for \$170. 821-0695.

Free

GUINEA PIG - 3-year-old, very tame, furry brown. 696-1745, leave message.

KITTENS - long hair, adorable, 11-week-old, 2 females, 1 male, w/shots, need good homes. Ext. 5611 or 281-2002 eves.

WOOD CHIPS - you pick-up. Cleve, Ext. 7234.

COAL BIN - wooden, 4'x8'x3 1/2', w/1/2 ton of coal, you pick-up. Rick, Ext. 3979.

DOG - yellow Lab mix, 1-year-old, moving, needs good home. Brenda, 366-1860.

Yard Sale

CENTER MORICHES - Christmas fair, corner R.R. Ave. & Main St., Nov. 19, 10 a.m.-4 p.m., luncheon served 11 a.m.-1 p.m. 878-2239.

Lost & Found

FOUND - key, in NSLS front parking lot, see receptionist or call Ext. 5136.

Real Estate

Real Estate advertised for sale or rent is available without regard for the race, color, creed, sex or national origin of the applicant.

For Rent

BELLPORT - 3 bdrms., 2 baths, furn., near bay, immed. occupancy until June 30. 286-0466 or 286-9389.

CALVERTON - 3-bdrm. condo, 1 1/2 baths, l/r, formal d/r, \$800/mo. 744-1110.

LAKE PANAMOKA - 2 bdrms., eik, d/r, l/r w/fp, all appl., w/d, full bsmt., priv. beach rights, 5 min. from Lab. \$800/mo. + util., avail. Dec. John, Ext. 4666 or 929-3407.

MASTIC BEACH - 3-rm. apt. w/bath, new kitchen, priv. ent., single or couple, \$750/mo. incl. all. Ext. 2951 or 399-3415.

RIDGE - 4-bdrm. high ranch, new, 3 baths, l/r, d/r, play room, den, poss. M/D, 5 min. from Lab, no pets. Ext. 5076 or 744-4615.

SHOREHAM - 1-bdrm. duplex, cathedral ceilings, skylights, full bath, l/r, eik, w/w, priv. beach, avail. immed., \$650/mo. incl. util. 744-0770.

SOUND BEACH - 2-bdrm. cottage, newly renovated, new oil heat, hardwood floors, some carpeting, bsmt., fenced yard, walk to beach. \$700/mo. + util. Don or Sue, 473-6570 after 7 p.m.

SOUTH JAMESPORT - 1-bdrm. cottage, l/r, eik, bath, porch, furn., walk to beach, 20 miles from Lab, suitable couple, no children/pets, \$475/mo. + util. Walt, Ext. 2907 or 698-0576.

SOUTH SETAUKET - 4-bdrm. Colonial, gas heat, 2-car garage, 3 Village schools, excel. cond., avail. Dec. 1. Peter, Ext. 4094 or 751-6575 eves.

HILTON HEAD, SC - 2-bdrm. condo, sleeps 6, tennis, golf, beach, pool, November special \$350/wk. 585-9149.

For Sale

MASTIC BEACH - 3-bdrm. ranch, bath, 5 rooms, full bsmt., 3 blocks from marina, large lot, oil-hot water heat, \$118,000. 281-8685.

SETAUKET - 3-bdrm. L-ranch, 2 baths, eik, l/r, d/r, rec. room, wood floors, patio, full bsmt, attic, 2-car gar., a/c, 1/3 acre, 3V schools, \$230,000. Thomas Nolan, Ext. 5865 or 584-8339 after 6 p.m.

SOUTH BELLPORT - 3-bdrm. ranch, 1 bath, hardwood floors in l/r, eik & master bdrm., 76'x175' fenced, above-ground pool, walk to dock & golf course, \$118,000. Bob, Ext. 7519.

PALM COAST, FL - 1/4 acre lot, 80'x125', 5 mi. to Atlantic Ocean, 24 mi. n. of Daytona Beach, water drainage & sewage, utilities in, \$1,995 & assume loan. Thomas Nolan, Ext. 5265.

ROCKLEDGE, FL - 2-bdrm. house, 2 baths, 2-car garage, fam. rm., porch, w/w carpet, shades, some drapes, appliances, \$64,500. 407-631-2840.

Wanted