BROOKHAVEN BULLETIN
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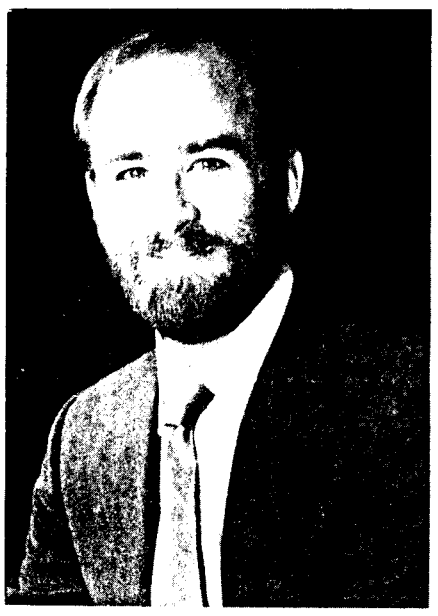
BROOKHAVEN NATIONAL LABORATORY

Lessard, Baum And Hull Honored At HPS Meeting

Edward Lessard, Health Physicist in the Health Physics Group of BNL's Safety & Environmental Protection Division (S&EP), is the 1987 recipient of the Elda E. Anderson Award of the Health Physics Society (HPS). Lessard received the award, which consists of a certificate and $1,000, at the 32nd annual meeting of the HPS, held in Salt Lake City, Utah, on July 7.

The Elda E. Anderson Award has been presented annually since 1962 to a member of HPS under the age of 40, to recognize excellence in research or development, discovery or invention, devotion to health physics, and/or significant contributions to the profession of health physics. At age 35, Lessard has done work touching on all of these areas.



Edward Lessard

His contributions to radiation protection training, radiation safety for the Marshall Islanders, retrospective dose assessments, bioassay, internal dose assessment and, most recently, to operational health physics were all judged to be exemplary.

Also at the meeting, two others on the S&EP staff were designated Fellows of the 6,000-member HPS: Senior Scientist John Baum, Associate Head of S&EP, who is primarily responsible for the research activities of the division; and Senior Health Physicist Andrew Hull, who is responsible for assisting the U.S. Department of Energy in planning and responses through the Radiological Assistance Program.

John Baum

Andrew Hull

The society's stated objective is "the development of scientific knowledge and practical means for protection of man and the environment from harmful effects of radiation, thus providing for its utilization for the benefit of mankind." Thus, Fellows are senior members of the society who have made significant contributions to these objectives. In all, 14 new fellows were added to the existing roster of 44.

Peter Bond Is New Head of Physics

Last Friday, Laboratory Director Nicholas Samios reported that Peter Bond has accepted the Chairmanship of the Physics Department, for a period of five years.

Bond replaces Arthur Schwarzschild, who recently announced his decision to return to research, after serving as Physics Department Chairman since 1981. Samios thanked Schwarzschild "for his extraordinary efforts during the past six and one half years of his Chairmanship. The Physics Department and the Laboratory have greatly benefited and are much stronger as a result of Arthur's wise judgment and actions."

Mort Rosen

Peter Bond

As Samios noted further, "These are indeed exciting times in all the main areas of research in the Physics Department, high energy, nuclear and solid state physics, and we are fortunate to have persuaded a person of Peter's talents to assume this responsibility."

After earning his Ph.D. in physics at Case Western Reserve in 1969, Peter Bond spent three years as a Research Associate at Stanford University, then came to BNL in 1972, as an Assistant Physicist. He was named Associate Physicist in 1974 and Physicist in 1976, concentrating on basic research in nuclear physics. In August 1986, he became Associate Chairman of the Physics Department, and he has been Deputy Chairman since last February.

His first year in administration, said Bond, "has been an incredibly exciting year in physics. Nick Samios was one of the first to call it the 'super' year because of the appearance of supernova 1987A, breakthroughs with high temperature superconducting materials and progress with the Superconducting Super Collider." The Physics Department has been deeply involved with all these recent developments. In addition, several experiments studying rare kaon decays, which BNL physicists have been constructing over the past few years, have begun to take data, and the relativistic heavy ion program has started at the Alternating Gradient Synchrotron (AGS).

Looking ahead, Bond said, "Clearly, the area that has been growing most rapidly is that of relativistic heavy ion physics. We expect that a major future activity in the Physics Department will be the research at the proposed Relativistic Heavy Ion Collider [RHIC]. These experiments will extend the mix of both high energy and nuclear physics already under way at the AGS."

Bond has already been involved in this blending firsthand, as a member of E802, the first large, heavy ion experiment at the AGS. He has also helped organize one of the RHIC workshops.

"I have always believed in the importance of interdisciplinary work," Bond commented. "One of the real strengths of the Physics Department is that it is multidisciplinary — the subdisciplines are not physicially separated as often exists elsewhere. The merging of the nuclear, high energy and solid state disciplines makes for a much more exciting atmosphere and for better physics. I'll make every effort to assure it continues that way."

That's the way it always has been, Schwarzschild recalled in a June memo informing the Physics Department of his plans to step down. "... As the Laboratory begins its fortieth anniversary I would reflect on my days at BNL, which first occurred as a summer student in 1951," he wrote. "Brookhaven and the Physics Department were most exciting places with a variety of physics instruments under construction . . . . The excitement continued and as a graduate student here in the middle fifties I again found a most exciting environment . . . the intellectual climate, created by the internal staff and the many visitors attracted to our Department . . . continues to make this a great place to be, with almost boundless opportunity for important discoveries."

Arthur Schwarzschild

Concluded Schwarzschild, "I now look forward with a real sense of excitement to join you in research again and hopefully find the satisfaction of discovery which is the real joy of physics and which I experienced for many years in the past."

Here and Now — Hands-On PC Training

Can you "boot up" a PC? Or "create a directory," or "back up a file?" These terms may mystify some users of pens or typewriters, but they are perfectly clear to most users of computers. At the Lab, more and more people are finding out how useful a personal computer (PC) can be. In the past few years, the number of PCs on site has increased dramatically. But while many employees are thoroughly familiar with computer technology, others are struggling with manuals, learning by trial and error -- and at the same time, having to get through their usual workload.

So, to help employees take full advantage of their PCs, Training and Development in the Personnel Division, the Applied Mathematics Department (AMD) and Management Information Systems (MIS) have collaborated to establish a PC training room, with hardware, for hands-on instruction.

Said Mary White, Training and Development Administrator in Personnel, "Thanks to the Department of Applied Science, we located suitable space for the new computer training facility in Bldg. 475, and it's now equipped with eight IBM PC/XTs and three printers."

Training and Development is now offering the first hands-on training courses for beginners, the Introduction to the IBM PC and the Disk Operating System (DOS). Given in two

(Continued on page 2)

Mort Rosen

Grace Volkmann (standing), Personnel, will teach the August sessions in the new PC training facility, Bldg. 475. Seated are participants from the first PC training course: (from left) Nicholas Parrinello, AGS; Rebecca Williams, Budget Office; John Rubino, NSLS; Gerald Blackford, Budget Office; Jane Bennett, Budget Office.

PC Training (cont'd)

half-day sessions, this course on PC basics will begin in August and will be repeated until demand has been satisfied.

Participants will be introduced to PC hardware, software and some of the more frequently used DOS commands. They will learn how to create and maintain files and directories, and be given an overview of the different types of software available.

"In late June," said White, "we had a pilot course for employees from the Budget Office who'd only recently started using PCs, and it was most successful. Now we're prepared for the almost 300 employees who have already expressed interest in the course."

White explained that, in order to attend the courses, employees should contact their supervisors or department administrators, who will forward their names to Training and Development.

"The present course is designed for beginners," White said. "We assume no prior knowledge. The outline has been carefully planned so that all terms and concepts are explained before they are put into practice." She added that even though XTs are used in training, beginning users of IBM ATs or even the basic PC with only two floppy discs should also find the training course beneficial.

The course outline was developed by Grace Volkmann, a Personnel Representative from the Wage and Salary Section of Personnel, in consultation with White and Kurt Fuchel, Manager of Scientific Computing Support Services in AMD. Volkmann, who has been trained as an instructor, conducted the pilot course and will give the sessions in August.

Fuchel was able to give valuable advice as, for some years, he has been giving introductory training to small groups of new PC users. "I gave demonstrations and mini-lectures on an ad hoc basis, which worked well while there were not so many people needing help," he said. "But with such a rapid increase in PC users, it meant that regular courses, with computers available for hands-on experience, would be the best way of meeting the growing demand."

This first course is only the beginning. Planned for the future are introductory training courses on software programs such as Wordperfect (word processing), Lotus 1-2-3 (spreadsheets) and dBASE III PLUS (data base). Training will be given by a combination of experts from BNL, who themselves use the software they will teach, and from outside the Lab for specialized programs.

Fuchel said that a telecommunication link from the training facility to the mainframe is being set up. Then, training for users of the new mainframe computer, the IBM 3090, and the PC-based computerized Automated Drafting and Design programs (e.g., AUTOCAD, PCADs) will also be possible.

The computer specialists in MIS, who regularly use their expertise for administrative purposes, are enthusiastic about their role in the new training classes. Said Robert Kaszuba, Assistant Manager in MIS, "One course we are planning will allow participants to use the Data Express program. They'll be shown how to download data from our main system into their individual PCs, where it can be used in many application programs. This should greatly expand the use of the information that's contained in MIS production systems."

With all this expertise and the facility for hands-on training on site, employees can easily become "computer-friendly." They will soon know that to "boot up" a computer means to activate its program — and they'll even know whether it was a "cold" or a "warm" boot! — Liz Seubert

Workshop Advances Plans For XLS Prototypes

Early 1988 has been set as the due date for potential contractors to submit their preliminary designs for a prototype x-ray lithography source (XLS). So it was agreed by the 35 attendees of the XLS Workshop held at the Lab on July 8.

Those in attendance included 17 representatives from nine corporations interested in being the first to build a commercial, compact synchrotron dedicated to the production of high speed computer chips. The workshop was sponsored by the National Synchrotron Light Source's (NSLS) XLS pre-construction study group and BNL's Office of Research & Technology Applications, under Department of Defense funding for the NSLS' compact synchrotron initative.

As agreed at this workshop, companies will compete for selection using specifications developed at the NSLS. After earning approval for its detailed design, the winner will construct the prototype, which will be built, commissioned and operated at the Lab. Says NSLS Chairman Michael Knotek, "We are trying to establish a formula both for producing an industrial machine as soon as possible and for transferring the necessary technical expertise to industry."

Mort Rosen

Jerry Bellows (right), Manager of the Department of Energy's Brookhaven Area Office, welcomed the 35 attendees to the XLS Workshop held at BNL July 8. After that, Michael Knotek (center), Chairman of the National Synchrotron Light Source Department, offered an overview of the compact synchrotron initiative thus far. Later on in the day's program, Seymour Baron (left), Associate Director for Applied Programs, addressed the group on the lessons learned in transferring nuclear technology from government to industry and how they can be applied to the transfer of synchrotron technology.

BNL's Fabulous Forty

At 95 years of age, Allie Kaplan is the oldest of BNL's old-timers. As Kaplan explains, "I'm the oldest BNL retiree alive — thank God."

Born in Brooklyn on November 14, 1892, Kaplan is thankful that his mind and body have remained sound so long, so that he can continue to enjoy his retirement years — working. He retired from the Lab on December 31, 1957, and immediately took a job as a caretaker of an estate on the beach in Quogue, where he still works.

Mort Rosen

Allie Kaplan

Kaplan grew up in East Quogue and has vivid, boyhood memories of the East End of Long Island around the turn of the century. His first introduction to the Lab site came during World War I when he was inducted into the Army and spent two weeks at Camp Upton.

After the war, Kaplan came back to East Quogue and took up the business of supplying produce to hotels, restaurants and grocers. "The hurricane of '38 wiped my customers and me out of business," recalls Kaplan. So during the Depression, he took up manual labor.

At the beginning of World War II, he got work as a civilian Army employee, building runways at Westhampton for the Army Air Corps. Around 1944, Kaplan was transferred to Camp Upton, where he did grounds maintenance. Because he spoke enough Yiddish to make himself understood to the German prisoners of war at Camp Upton, Kaplan supervised those working as a grounds crew.

When Camp Upton became BNL, Kaplan was hired as a laborer on March 24, 1947, and was issued life number 351. In addition to grounds maintenance, Kaplan worked as a rigger, "moving out the Army and bringing in the Laboratory." From November 1947 to October 1951, he was a fireman, as he had also filled that job as an civilian Army employee.

From the end of October 1951 until his retirement in 1957, Kaplan worked the swing and graveyard shifts, as a stationary engineer in the heating division of the then Architectural Plant & Plant Maintenance Department. "I would travel from building to building, taking care of the high-pressure boilers," remembers Kaplan.

Reminiscing about his days at the Lab, this soft-spoken gentleman recalls working with "the boys" — including Ken "Whistle" Swezey and Mike Tesla, who have celebrated their fortieth service anniversaries at the Lab this year. One of Kaplan's two sons, Eugene Kaplan, Alternating Gradient Synchrotron Department, has been working at the Lab since January 1958. In addition to two sons, the senior Kaplan has five grandsons and eight great-grandchildren, including two great-granddaughters.

"Everything has changed," says Allie Kaplan, whose last visit to the Lab, before being interviewed and photographed earlier this month, came ten years ago. "I don't know the place any more, but it looks beautiful — more like a modern laboratory should look, not like an old Army base anymore."

Taking care of the three houses and the grounds of the Quogue estate "gives me something to do and keeps me busy," says Kaplan. His wife, Bella Gross Kaplan, died 11 years ago, and "I still miss my missus. I live by myself, do my own cooking and drive my own car. I don't have any major problems yet." He does admit to a touch of rheumatism in his joints, for which he does exercises, to being hard of hearing and to depending upon his eyeglasses for his vision.

His prescription for a long, healthy and happy retirement: "Stay active and take care of yourself. Get plenty of exercise and fresh air and rest — I work outdoors and take naps. And don't drink." — Marsha Belford

IBEW Meeting

Local 2230, IBEW, will hold its regular monthly meeting on Monday, July 27, at 6 p.m. in the Knights of Columbus Hall, Railroad Avenue, Patchogue. There will also be an afternoon meeting at 2 p.m. for shift workers in the Union office at 31 Oak Street, Patchogue. On the agenda will be regular business, committee reports, the President's report and the report of the Negotiation Committee.

Weight Watchers

This is the last time new, on-site Weight Watchers can sign up for half the usual fee. On Wednesday, July 29, new and continuing members may join the Lab's Weight Watcher session beginning that day and continuing for seven additional, consecutive Wednesdays, from 5:15 to 6:15 p.m. in the S&EP conference room, Bldg. 535. The half-price fee for newcomers is $25, as the Lab will pay the other half; continuing members pay $50. For more information, contact Health Promotion Specialist Elaine Friedman, Ext. 2699, Tuesdays and Thursdays.

Information Desk: Suny at Stony Brook

Representatives the State University of New York at Stony Brook will be in Berkner Hall on Wednesday, July 29, from 11:30 a.m. until 2 p.m. at an information desk near the Cafeteria. Employees' questions about Stony Brook's educational program will be welcome.

SCCC Offers Courses on Site

Registration for Suffolk County Community College (SCCC) courses to be held on site during the fall 1987 semester will be held August 3 through 14, in Personnel, Bldg. 185. The following courses are being offered:

SO11 — Sociology
EG11 — Standard Freshman Composition
BA29 — Supervision: Concepts and Practices
PC11 — Introduction to Psychology I

If you have any questions, call Pat Knisely, Ext. 7631.

It's Blatantly Unofficial

Longest lapse in publishing entries received for BNL's "Blatantly Unofficial Record Book." To wit, the entries appearing in today's issue were submitted between last August and the present. — *Anita ("Mea Culpa") Cohen*

(Editor's note: While we hope the above record is never broken, the ones below still seem valid and ready to take on any challenges.)

Most people (12) at one lunch table wearing the same shirt — backwards.
— *1986 Summer Students*

Longest continuous aluminum "chip" machined on a lathe — 33 feet, 4 inches (as of July 8, 1986). — *Bill Trent, Central Shops*

Most photocopy machines out-of-order in one office at one time — three, in Bldg. 426. — *Jim Roberts, Applied Science*

Highest percentage of people with the same birth date working in one office — in room 201, Bldg. 460, three of seven people (42.85%) were born on July 6.
— *Ron Manning, Director's Office*

(Editor's note: The above record was set on June 9, 1986. Since then, one of the three people sharing the same birth date has changed offices, but the record remains valid until successfully challenged.)

Interoffice mail envelope in circulation at BNL for the longest period — at least 1961 to present, because one of the earliest entries sent the envelope to Leland Haworth, who was director of the Lab from 1948-1961. It was from Edith Webster, who was an administrative aide here from 1947-1964.
— *John McNeil, Applied Science*

And there was a challenge to the height record:

We have broken the record for the largest height difference between two people. In this case, it is two people in one trailer: Rachel Goldman, 5'1", and Don Crabb, 6'6½"; difference, 17½" (as of August 1, 1986).
— Rachel Goldman, summer student with the University of Michigan group at the AGS.

Won't you help fill up the *Blatantly Unofficial Record Book*? (A copy is available for inspection in Public Relations, Bldg. 134.) While all entries must have some relation to the Laboratory, the categories and superlatives are limited only by your imagination and experience — and whether the claim can be corroborated by someone else.

To submit an entry for possible publication as a "blatantly unofficial" BNL record, just fill out the form below (or a reasonable facsimile thereof) and send it to the Brookhaven Bulletin, Bldg. 134. Each new record will stand until a more spectacular submission knocks off the laurel wreath.

Entry for "Blatantly Unofficial BNL Records"

(Please Print)

Name .....

Department ..... Ext. .....

Corroborator .....

Department ..... Ext. .....

Proposed Record .....

.....

.....

.....

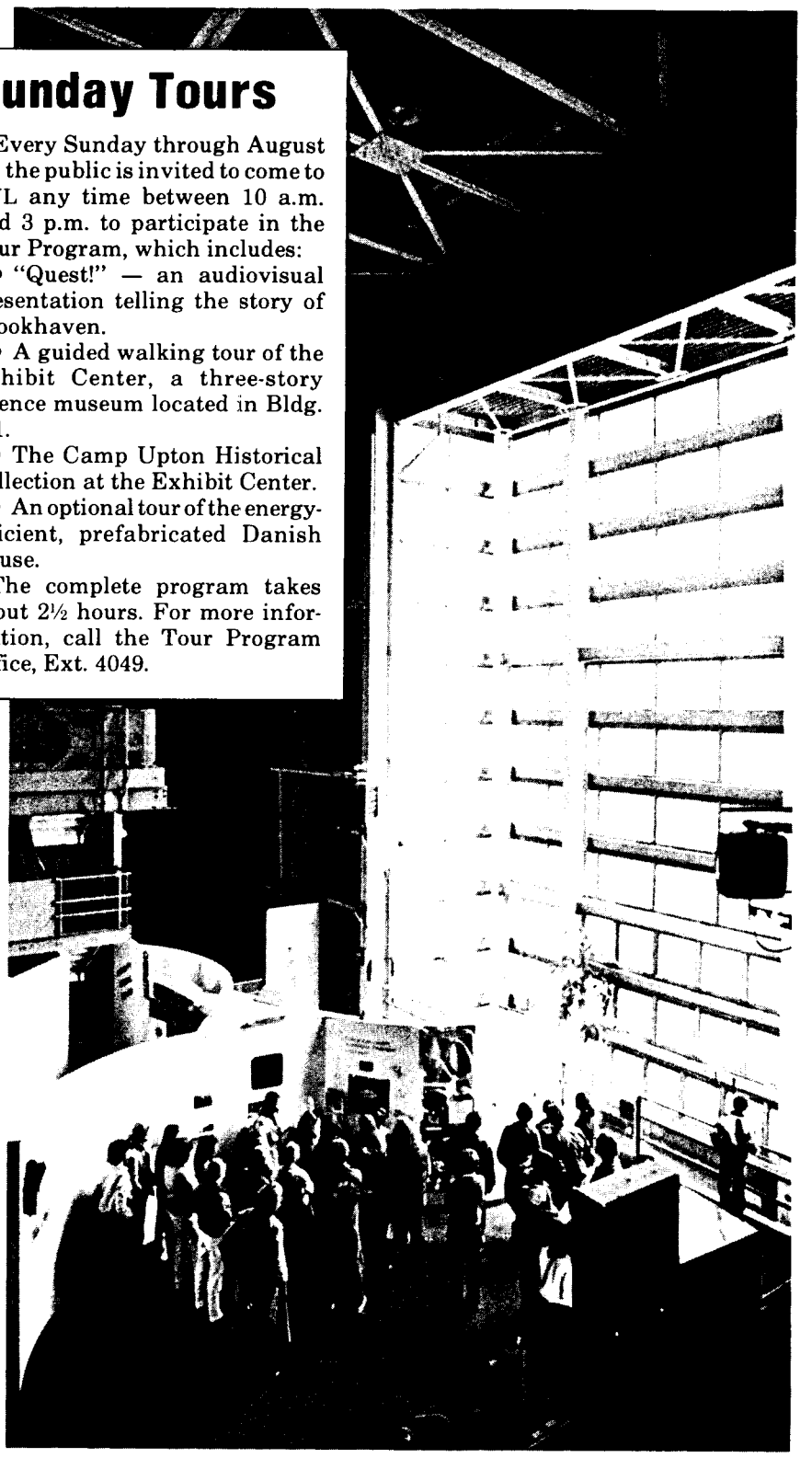
Date Proposed Record Was Set .....

Sunday Tours

Every Sunday through August 30, the public is invited to come to BNL any time between 10 a.m. and 3 p.m. to participate in the Tour Program, which includes:

- "Quest!" — an audiovisual presentation telling the story of Brookhaven.
- A guided walking tour of the Exhibit Center, a three-story science museum located in Bldg. 701.
- The Camp Upton Historical Collection at the Exhibit Center.
- An optional tour of the energy-efficient, prefabricated Danish House.

The complete program takes about 2½ hours. For more information, call the Tour Program Office, Ext. 4049.



Special Invitation to Summer Visitors

You're invited to enjoy a "New York City Experience" on Saturday, August 1. The modest cost of $18 includes a three-hour circumnavigation of Manhattan on a Circle Line cruise, sightseeing in Chinatown and a visit to the Hayden Planetarium. Also included are transportation by luxury coach and a breakfast to be served on the bus. Lunch in Chinatown will be at your own expense.

The bus will leave from the Brookhaven Center promptly at 7:30 a.m. You are advised to bring comfortable walking shoes and a sun hat or visor.

Bus seats are limited and will be allotted on a first come, first served basis. To reserve your seat, bring or mail your $18 — cash only — to Renée Flack or Richard Jones, Affirmative Action Office, Bldg. 185A, Ext. 3316.

Bus Trip to Lincoln Center

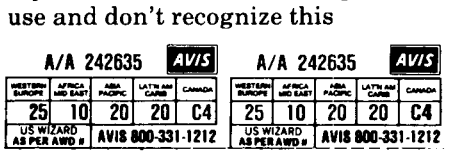
The Hospitality Committee is sponsoring a bus trip to New York City on Saturday, August 8, to attend the matinee performance of the opera *La Traviata* at Lincoln Center. The bus fare and tickets for the opera are $15 per person.

The bus will leave the Recreation Building in the apartment area at 9:45 a.m. and will return there around 6 p.m. When you get to the city, you will have a couple of hours to do some touring or shopping before the performance.

For reservations and additional information, call one of the following Hospitality Committee members: Takato Inagaki, Ext. 3182; Sharon Hall, Ext. 3032; or Milica Stevanovic, Ext. 3009. Reservations must be made by Tuesday, July 28.

Note to Drivers

If you rent cars for official or personal use and don't recognize this



you are missing out. Check with the Travel Office, Ext. 2531, for more information.

Theater Group

The BERA Theater Group will meet on Tuesday, August 11, in Berkner Hall. Socializing from 7:30 p.m. will be followed by a business meeting at 8 p.m., during which an election will be held. In addition to the following slate of officers, nominations will be accepted from the floor:

President: Bob Kinsey
Vice Pres./Treasurer: Penny Baggett
Secretary: Bill Love
Program: Connie Fuchel
House: Joe Skelly
Publicity: Rita Straub
Advisory Committee: Tom Morris

After the business meeting, we will read from several plays including *Breaking the Code* (now running in London), based on the life of mathematician and computer pioneer, Alan Turing.

In Memoriam

It has been learned that Oscar Thomas, who retired in June 1973, died on July 14. He was 73 years old. At the time of his retirement, Thomas was a technician in the Physics Department and had been at the Lab for 26 years. He lived in Yaphank and is survived by his wife Thelma; six children, Maurice, Harold, David, Connie, Francis and Jennie; and 12 grandchildren.

Equipment Demo

A representative from Advanced Research Systems will demonstrate cryogenic equipment manufactured by ABD Cryogenics (formerly Air Products) and Scientific Instruments. The demonstration will be held on Wednesday, July 29, from 10 a.m. to 3 p.m. in the Berkner Hall lobby.

BROOKHAVEN BULLETIN
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MARSHA BELFORD, Assistant Editor
LIZ SEUBERT, Reporter

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Cafeteria Menu

Week of July 27

Monday, July 27		
Cream of mushroom soup	(cup)	.75
	(bowl)	.95
Veal cordon bleu w/1 veg.		2.85
Broiled London broil w/1 veg.		2.95
Hot vegetable plate (lite-weight)		2.20
Hot deli: Corned beef	(bread)	2.55
	(roll)	2.65
	(hero)	2.75
Tuesday, July 28		
Beef barley soup	(cup)	.75
	(bowl)	.95
Salisbury steak w/1 veg.		2.85
Fried clam plate w/1 veg.		2.95
Zucchini pasta salad plate (on ice table, lite-weight)		2.25
Hot deli: Turkey	(bread)	2.55
	(roll)	2.65
	(hero)	2.75
Wednesday, July 29		
Split pea soup	(cup)	.75
	(bowl)	.95
Spaghetti & meatball w/garlic bread		2.85
Vegetable omelet (lite-weight)		2.45
Hot deli: Roast beef	(bread)	2.55
	(roll)	2.65
	(hero)	2.75
Thursday, July 30		
Beef noodle soup	(cup)	.75
	(bowl)	.95
Chicken Kiev w/rice pilaf		2.95
Spanish macaroni w/1 veg.		2.85
One-half melon w/cottage cheese (on ice table, lite-weight)		1.95
Hot deli: Pastrami	(bread)	2.55
	(roll)	2.65
	(hero)	2.75
Friday, July 30		
Tomato lentil soup	(cup)	.75
	(bowl)	.95
Ravioli Parmesan w/garlic bread		2.85
Broiled fish (catch-of-the-day) w/lemon butter (lite-weight)		2.95
Hot deli: Six-foot hero		1.10/inch

Arrivals & Departures

Arrivals

Iris A. Mastrangelo ..... Biology
Balchand J. Patel ..... Plant Eng.
Michael C. Taylor ..... Physics
Steven E. Warhol ..... Physics
Jaroslaw W. Winniczek .... Chemistry

Departures

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

Joyce J. Crews ..... App. Math
Philip D. Metz ..... App. Science

Softball

Standings through week of July 6:

	Won	Lost	Rainouts
League I			
Blue Jays	7	0	0
Cool 'n Gang	4	2	2
Six Pax	4	2	2
Phoubars	3	3	2
Magnuts	3	3	1
Ravens	3	3	2
BNL Bandits	2	4	1
Sudden Impact	1	5	2
SMF	1	6	2
League II			
Cutting Edge	6	0	
Titans	5	1	
Scram	5	1	
AMD	3	3	
Scrambled Legs	3	3	
Binary Bombers	2	4	
Dirty Sox	2	4	
Phase II	1	5	
Medical	1	5	
League III			
Survivors	5	1	
Snakebites	5	1	
Farm Team	5	1	
Foul Ups	4	3	
Mole-esters	2	4	
Septembers	2	5	
Kidz-R-Us	2	5	
Source	1	6	
League IV			
Sandboxers	7	0	
Simply Awesome	6	1	
Underalls	5	2	
Spacekadets	4	2	1
Hit 'n Run	2	4	1
Mudville Sluggers	2	4	1
Turkeys	2	5	
No Feedback	2	5	
Who Cares	0	7	1

*to be made up

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.

SCIENTIFIC POSITION OPEN: The following staff position is open. Candidates may apply directly to the department representative named, or through the Office of Scientific Personnel, Ext. 7813.

POSTDOCTORAL RESEARCH ASSOCIATE - Position available in macromolecular protein crystallography at the Center for Structural Biology. Contact: B.P. Schoenborn, Biology Department.

LABORATORY RECRUITMENT - Opportunities for Laboratory employees only.

2632. MAIL CLERK - Staff Services Division.

OPEN RECRUITMENT - Opportunities for Laboratory employees and outside applicants.

2633. REFRIGERATION AND A/C ENGINEER -Requires substantial experience troubleshooting, repairing, installing and operating commercial/industrial air-conditioning and refrigeration equipment including steam absorption, centrifugal and helical screw refrigeration machines. Successful completion of refrigeration and A/C apprenticeship program or related course work is highly desirable. Must be available to work shifts as required. Plant Engineering Division.

2634. TECHNICAL POSITION - Requires an AAS degree in mechanical technology or equivalent and experience in the operation and maintenance of large capacity process water cooling systems. Responsible for pumps, cooling towers, heat exchangers, mixed-bed demineralizers and pneumatic and electric controls. Alternating Gradient Synchrotron Department.

2635. TECHNICAL POSITION - Requires an AAS degree in mechanical technology or equivalent and knowledge of precision assembly procedures and vacuum techniques. Ability to interpret detailed drawings and work with light machines and hand tools required. Physics Department.

Autos & Auto Supplies

83 CAMARO BERLINETTA - V6, a/t, a/c, p/s, p/b, p/w, tilt, cruise con., am/fm cass., new tires, 57k mi., $6,500. 589-7413 or 758-6703.

78 VW RABBIT - 91k mi., excel. cond., orig. owner, $1,000. John, Ext. 3821 or 473-6624 after 6 p.m.

62 OLDS - F-85 Jetfire factory turbo, hardtop, coupe, console, buckets, orig. paint. Joe, 363-6673.

72 LINCOLN CONTINENTAL MARK IV - runs well, new exhaust, $600. Ext. 2385.

79 HONDA ACCORD - hatchback, new radiator & brakes, runs well, $950. 878-2197.

69 CHRYSLER NEWPORT - good body, hitch, make offer. Paul, Ext. 2017 or 744-7708.

79 CHEVETTE - 4 dr., blue, good cond., excel. body, asking $500. Skip, 727-6369 after 5:30 p.m.

85 MITSUBISHI MONTERO - 2 dr., 4wd, auto, loaded, mint, $16,000. Dominic, Ext. 4265 or 732-2668.

77 MUSTANG II - brand-new trans., brakes, tires, 79k mi.; crankshaft pulley, broken, $350 or will buy parts to fix. Ext. 3379.

75 PLYMOUTH VALIANT - 6 cyl., 4 dr., p/s, runs well, $675. 277-4091.

PARTS - for 1969 2 dr. Volvo, doors, drive shaft, alternator. Joe, 499-1056.

78 TOYOTA COROLLA WAGON - clean, reliable, runs well, $795; 1976 Suzuki GT-500, very clean, 13k mi., runs well, $400. Dave, 588-2916.

76 CAMARO - dependable, not pretty, asking $350. 878-0516.

80 MERCURY BOBCAT - good mechanical cond., 65k mi., stereo, $750. 744-7947.

83 DATSUN 280ZX - black/tan int., T-top, 5 spd., every option, excel. cond., 30-day warranty. John, Ext. 4034 or 864-9656.

75 FIAT X/19 - (2), one running, one for parts, $350 for both. Bob, Ext. 5010.

77 FORD ECONOLINE VAN - runs very well, new tires, battery, cb, sunroof, extras, $1,850; 72 Tagalong 15' camper, $1,200. Donna, 758-9473.

79 OLDS STARFIRE - 4 spd., sunroof, new tires & battery, 99k mi., $600. 281-8829.

77 CAMARO RALLYSPORT - 305 V8, a/t, p/s, p/b, good cond. 363-6753 after 6:30 p.m.

77 ASPEN SEDAN - 4 dr., yellow, a/t, new exhaust, rebuilt trans., 80k mi., orig. owner. Ext. 3375 or 751-6139.

77 JEEP WAGONEER - 4x4, dual gas tanks, dual batt., p/winch, a/c, cb, am/fm, tilt wheel, new trans., more, $3,000. Bob, Ext. 2309 or 473-9180.

75 CHEVROLET SPORTVAN C-10 - 6 cyl., 3 spd., excel. running cond., $1,000. John, Ext. 2269 or 281-2623 after 6 p.m.

77 AUDI FOX - a/c, radials, 85k mi., excel. running cond., $1,700. Al, Ext. 4442 or 929-8411.

81 VW RABBIT - diesel, 4 spd., stereo, excel. cond., $2,100. 878-4236 after 6 p.m.

80 CITATION - 4 dr., p/s, p/b, new tires, radiator, good cond. in & out, asking $1,000. Tom, 475-0084.

84 COLT VISTA WAGON - a/t, a/c, 38k mi., excel. cond., $6,200. Ext. 4188 or 363-5170.

CAMPER - 1970 Tagalong trailer, self-contained, many extras, $1,000. Pete, Ext. 4574 or 399-2813 after 5 p.m.

84 DODGE DAYTONA - turbo, a/c, p/w, a/t, low mi., excel. cond., $7,000 neg. 689-1582 or 588-6417.

72 TOYOTA CORONA - std., rebuilt trans., for parts, you tow, $150. Ron, 744-1194.

75 GRANADA - was idle for 9 mos., used to run well, $350. Ext. 7699 or 821-1435.

78 DODGE OMNI - 4 dr., 4 spd., stereo/cass./radio, many new parts, good mpg, $500. Tom, 473-8739 after 6 p.m.

71 TOYOTA COROLLA - runs well, $200. Vera, Ext. 5064 or 929-8294.

82 DODGE OMNI - 4 dr., a/t, a/c, 60k mi., very clean, $2,950. A. Romano, Ext. 4024.

80 VW RABBIT - diesel, 93k mi., 4 spd., 4 dr., consistant 47+ mpg, clean in & out, well maintained. Bob, Ext. 4824, Beeper 343 or 744-5098.

84 RENAULT ENCORE - hatchback, 5 dr., 44k mi., 35 mpg, 5 spd., perfect in & out, silver, $3,750. Ext. 7676 or 673-1959.

83 CAMARO Z28 - a/t, a/c, power everything, fully loaded, excel. in & out, asking $8,200. Ext. 2922 or 395-1588 eves.

66 FORD STEP VAN - 6 cyl., std., fiberglass/alum. body, $600. 399-4480.

81 TOYOTA SR5 - manual, 2 dr., tinted glass, 2 snows, excel. cond., $2,800. 929-6782 eves.

77 MUSTANG - 58k mi., std., new clutch, brakes, w/p, timing belt, $1,500 neg. 758-5592.

73 AMC - old, faithful, needs TLC, $200. A. Holtz, 286-8605.

73 PONTIAC - 2 dr., a/t, p/s, p/b, am/fm cass., $375. Fred, Ext. 3259 or 473-8622.

81 MERCURY CAPRI - 3 dr., 5 spd., sunroof, excel. cond., $2,200. George, Ext. 4100.

80 OLDS CUTLASS - 4 dr., diesel, digital am/fm cass., good tires, no rust, excel. cond., $2,100 Ext. 4004 or 286-0934.

76 DATSUN B210 - runs well, $250 or best offer. John, Rm. 59, Ext. 2516.

81 CHEVETTE - 4 dr.; 1978 Chevy Caprice Classic, excel. cond. 242-9386 after 7 p.m.

76 BUICK LASABRE - excel. mech. cond., very dependable, $700. J. Bush, Ext. 4638 or Beeper 572.

29 MODEL A FORD SEDAN - running but needs work, $1,500. 281-8040.

72 PLYMOUTH STATION WAGON - full-size, excel. running cond. Ext. 2022 or 744-8386.

79 DATSUN - high mi., 4 spd., $575. 363-7032.

81 HONDA ACCORD - 4 dr., sedan, 97k mi., asking $3,300; 1978 Pinto Wagon, 78k mi., asking $550. Walter, Ext. 3499 or 757-6392.

86 TOYOTA TERCEL - station wagon, a/t, p/s, a/c, am/fm stereo cass., 16k mi., like new cond., $8,500. Ext. 4153 or 732-5829.

Boats & Marine Supplies

22' COLUMBIA SAILBOAT - 7 h.p. Johnson, 4 sails, mooring, cradle, $4,500. Fred Sawicki, 981-4216.

17' SEARAY - 115 Evinrude outboard, 1980 Dilly trailer, very clean, TeleFlex, 20 gal. gas tank, extras, $3,650. Ext. 4081 or 874-3844.

15' CRESTLINER - fiberglass, top and side curtains, 40 h.p. motor, giving up boating, $595 firm. 878-6637.

18' VIKING CABIN CRUISER - w/Shoreline trailer, 140 h.p. Evinrude engine, mint, $9,900. 331-1754.

CRUISER - 1972, cuddy cabin, 140 h.p. 1978 Merc., full canvas, camper back, ice box, potty, sleeps 4, more, $6,800. Bob, Ext. 2309 or 473-9180.

WINDSURFER - 1987 Dura-Lite, brand-new, must sell, moving to arid climate, $550. Mike, Ext. 4061 or 475-8406.

33' SILVERTON - twin 318's, sleeps 6, low hrs., in water, excel. cond. 878-0842 after 7 p.m.

CANOE - Sawyer "Autumn Mist," Kevlar, solo expedition quality, paddles, mint, $800. Ext. 3932 or 727-6516.

19' GLASSPAR - 1970, outboard, canvas covered cockpit, cabin w/2 bunks, asking $2,500. Ext. 4773 or 286-9257.

Miscellaneous

ANDERSEN PICTURE WINDOW - double pane, 50" square, 3 years old, good cond., $50. Marty, Ext. 3843/5054.

TICKETS - (4), Met Opera, Elisir D'Amore, Oct. 2, balcony, $23/each. Dave, Ext. 2694 or 941-9022.

TICKETS - U.S. Open Tennis, includes parking, Sept. 4-6. Wong, Ext. 2111.

WET SUITS - (2), men's small; Samsonite luggage, 4-piece, light blue, hardside, 20", 20" shoulder tote, beauty case, $100. 422-1846.

WASHER & DRYER - apartment size, w/rack, 110 V, portable washer, $450. Tom, Ext. 5350.

BUNK BEDS - without mattress, use together or separate, $100. Carl, Ext. 3354 or 928-6944.

SHIRTS - men's, short sleeve, brand-new, size 15; IBM electric typewriter, $150. Susan, Ext. 4267.

FREEZER - upright, w/lock & key, hinged right, good cond., $100. Ext. 3152 or 924-2568.

BICYCLE - Ross, 20", for boy or girl, $15. Ext. 4192 or 751-7787.

OAK DESK - $50; folding dining table, $40. Jerry, Ext. 5506.

CAMERA - Miranda 35mm, w/case & lenses, make offer. 928-0281.

AIR CONDITIONER - window, 8000 Btu, $50; 25" Motorola color TV, works, $75; exercycle, $65; sewing machine, $65. 277-4091.

HEADBOARDS - (2), twin size, maple, $15/each. Tony, Ext. 2050.

SOFA - Haitian cotton, off white, excel. cond., 1 year old, must sell, asking $95. Linda, Ext. 7745 or 878-2844.

DESK - Formica top, metal sides, w/chair, good cond., $45; 20" & 24" girl's bikes, good cond., $10/each. 878-6637.

MOWER - Sears ride-on, 10 h.p., bagging & dump cart, like new, used 3 times, $750. firm. John, Ext. 4034.

MICROWAVE - Panasonic Dimension, model Ne-9970, 16"x15"x10", w/T-table & cookbook, 1 year old, $200. Vincent, Ext. 3772, 281-5587.

CHESTNUT MARE - attractive, 15.2 hands, excellent w/children, comfortable English, Western jumper, hunter, $1,000. 929-4787.

AC GENERATOR - Niagara by Generic Corp., 4000 watt, portable, gasoline, new, $400. 475-1844.

KITCHEN CHAIRS - (4), ornamental wrought iron w/vinyl pads, very good cond., $40. Ext. 4605.

FOLDING STROLLER - Aprica, ideal for travel, excel. cond., $50. Ady, Ext. 4531 or 331-3785.

SINGER SEWING MACHINE - antique; (2) wood trunks, 40"x20"; oak chair; leather seat w/brass back. 472-1397.

ELECTRIC MOTORS - (2), 3-phase, 5 h.p. 289-0467.

CANARIES - Glousters, Red Factors, etc. Ramona, 928-3088.

PHOTO SUPPLIES - portable screen, enlarger easel, proof-sheet printer, etc. Peg, Ext. 7338.

DINING ROOM SET - teak, 7-piece, tiled buffet, rolling bar, like new, asking $1,950. Al, Ext. 4442 or 929-8411.

STEREO SYSTEM - Sony mini-components, amplifer, tuner, auto reverse tape deck, speakers, excel. cond., $275. 473-8387.

SCUBA DIVER WET SUIT - $^{3}/_{16}$", man's small, new cond., $50. Ernie, Ext. 3357 or 281-7873.

GATES - indoor, for child or for pet control, 32", expands to 50"; shopping cart, foldable. Joe, Ext. 2975.

GO-CART - competition 10 h.p. Yamaha, w/extras, $800 neg.; fiberglass tub encl., $20; waxer, $5; rabbit hutch, $10. Ron, Ext. 4715 or 289-1003.

DINETTE TABLE - (4) swivel chairs, $50; Colonial couch, $25; slate top coffee table, $15. 698-8514 after 5 p.m.

PIANO - maple, spinet, excel. cond., $800. 821-0250.

CONTENTS OF HOME - Bellport, lots of everything. 286-9051.

ENTERTAINMENT CENTER - oak w/glass doors, new, excel. cond., asking $90. 924-5419.

WASHER/DRYER COMBO - $225. 363-7032.

TOPSOIL - delivered, $15. per yard. 924-7746 or 924-9427 after 7 p.m.

WOOD STOVE - free-standing, airtight, flue pipe, (2) wood carriers, screen, accessories, $250. 758-5592.

PRINTER - C. Itoh, 8510A, dot matrix, 120 cps, 80-column, w/PRT-1 interface for Apple II, $150. Cumming, Ext. 4338.

'A' FRAME COOLING COIL - 3½-4 ton, MFG Lennox, brand-new, for forced air systems, $350. J. Medina, Ext. 7636 or 744-8790.

MOVING - everything in house for sale, arts, crafts, antiques. Polly, 744-2322.

Free

ELECTRIC ORGAN - Lowry Heritage, spinet, w/bench, needs work, you pick up. Ext. 5054.

Yard Sale

BELLPORT VILLAGE - behind Variety Mart, Fri.-Sat., 8 a.m. - dusk, moving, oak furniture, kitchenware, etc.

On-Site Services

FRIENDLY BROOKHAVEN GULF SERVICE - weekly special: complete evacuation & recharge of auto air conditioning system, $26.95. Ext. 4034.

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

N. BABYLON - 2 bdrm., luxury apt., avail. from Sept. '87, $895/mo. 242-9386 after 7 p.m.

S. BELLPORT - elegant furn. room, priv. bath, garage, microwave, frig., short walk to Fire Island ferry, quiet, non-smoker, 8 mos. min., $350/mo. all. 286-1479.

BELLPORT - Beach Estates, professional male seeks other prof. to share contemporary home, 1 bdrm., bath avail., share eik, l/r, d/r, den, f/p, w/w, etc., near village, golf, tennis, bay, $575/mo. + share util. 286-2007 after 12 p.m. or 698-0576.

CORAM - 1 bdrm., l/r, d/r, kit., full bath, a/c, dishwasher, heat included, avail. Oct. 1, $640/mo. Ext. 3748 or 732-5938 eves.

HILTON HEAD, SC - 2 bdrm. condo, sleeps 6, open Aug. 22-28, golf, tennis, beach, pool, taking fall rentals, $400/wk. 585-9149.

MIDDLE ISLAND - Artist Lake condo, 1 bdrm., l/r, kit., full bath, a/c, new w/w, dishwasher, redecorated, pool, heat incl., 5 min. to Lab., avail. Sept. 1, $650. Ext. 3144 or 698-5046 eves.

For Sale

FT. MYERS, FL - approx. ½ acre w/access to Orange River, 5 min. from I75, 20 min. from SW Florida Regional Airport, convenient to shopping, Gulf beaches, $18,500. Ext. 4482.

MASTIC - Manor Park area, 3 bdrm. ranch, mint cond., eik, d/r, large corner property, South Manor school district, 10 min. from Lab, asking $109,000. 281-1893.

EAST ISLIP - So. of Montauk, M/D Colonial, 2 kitchens, 2 l/r's, 3 bdrm., 2½ baths, on ⅓ acre treed property, many extras. 277-4091.

DENNISPORT, MA - Cape Cod, 8 rm. 1950's YR Cape on ¼ acre corner, w/office, 4 bdrm., 1½ bath, w/d, dishwasher, electric & propane, FB, CW, cable, walk to priv. beach on Nantucket Sound, taxes $600, asking $200,000. Ext. 4107.

PORT JEFFERSON - 3-village schools, 4 bdrm., 2½ baths, bsmt., garage, den, deck, garden, wooded backyard, ⅓ acre, $210,000. 928-0281.

HILTON HEAD, SC - 3 bdrm. condo, l/r, d/r, wet bar, full kit., 8 appliances, 2 baths, adjacent Palmetto Dunes golf course, ocean beach, tennis, 3 pools, asking $89,000 assumable mortgage; also for rent at reas. rates. 929-8912.

POCONOS - 3 bdrm. chalet, l/r, d/r, family rm., w/woodburning stove, kitchen, w/w, garage, paved roads, pools, lake, clubhouse, tennis, guarded entrances, more, sacrifice for $110,000. 286-4652.

RIVERHEAD - 12'x55' mobile home, 2 bdrm., 1½ bath, l/r, eik, new shed, dbl. drive, corner lot in adult/55 park on Peconic River. Jeff, Ext. 2907 or 727-5915 after 6 p.m.

MILLER PLACE - Scotts Beach Club, priv. L.I. Sound community, 4 bdrm. ranch set on ½ acre, 1½ baths, atrium room, many extras, $250,000. 744-2069.

Wanted

79-81 FORD FAIRMONT WAGON - or Mercury Zephyr, good cond. Bart, 924-6761 after 5 p.m.

MICROWAVE OVEN - small, med. J. Medina, Ext. 7636 or 744-8790.

MOTOR HOME - to rent for 1 or 2 wks. in Sept., adults. 874-3796.

ROOMMATE - to share 2 bdrm. apt. & costs. Ext. 4962.

SCUBA GEAR - wet suit, BC, weight belt, good cond. 698-0152.

QUAD - in good cond., reasonable. Joe Bush, Ext. 4638 or Beeper 572.

RENTAL HOUSE - or apt., preferably in Stony Brook area, beginning Sept., 1. 689-3012 or 744-6874.

APT. TO RENT - from Sept. 1 or Aug. 15, furnished, short lease, family of 3. Ext. 2710 or 331-5993.

Classified Ad Policy Deadline is 4:30 p.m. Friday for publication Friday of the next week.