

## A Star Trek

"Galaxies, Quasars and Cosmology" will be discussed by David S. Hesch, Director of the National Radio Astronomy Observatory, at the 130th Brookhaven Lecture, October 8, at 8 p.m. in Berkner Hall.

Galaxies and quasars display a bewildering array of properties which have thus far defied explanation. It is clear that understanding them will require new insights into the basic laws of physics, and Dr. Hesch believes they represent one of the major challenges of science today.

They are the most luminous objects in the universe, yet the source of their radiant energy and physical processes occurring in them, remain unknown. Because they are so luminous, they can be observed at very large distances, and at very early ages of the universe. Dr. Hesch will discuss the problems and possibilities of their potential use as probes for the study of cosmology, the investigation of the nature and evolution of the universe.

Lack of appropriate instruments has seriously hampered studies of galaxies and quasars. Dr. Hesch will describe the usefulness of the Very Large Array, a major new radio telescope system now under construction in New Mexico, as a powerful scientific tool in advancing knowledge in this field.

Dr. Hesch received his Ph.D. in Astronomy from Harvard in 1955, and joined the staff of the NRAO as an Astronomer in 1956. He has been Director of the Observatory since 1962. He is a fellow of the American Academy of Arts and Sciences and a member of the National Academy of Sciences. This will be Dr. Hesch's second appearance as a Brookhaven Lecturer. He gave the 32nd Brookhaven Lecture on "Radio Galaxies" in January 1964.



The first antenna of the Very Large Array, now under construction in New Mexico, being transported on railway tracks, specially built to facilitate the placement and maintenance of the complex radio telescope system.

## Ramsey Presents Memorial Lecture

Dr. Norman F. Ramsey, Higgins Professor of Physics at Harvard University, will deliver the Victor W. Cohen Memorial Lecture on October 9, at 3 p.m., in the physics seminar room. He will be introduced by Dr. Vineyard, and will speak on "Electric and Magnetic Dipole Moments of the Neutron."

Dr. Ramsey was selected for this lecture because of the close relationship of his work with that of Dr. Cohen. Their mutual research interests centered on high precision atomic beam techniques for the measurement of nuclear hyperfine interactions and magnetic moments. He was a member of a group of scientists who established Brookhaven in 1946, and was Chairman of the Physics Department when Dr. Cohen joined the staff in 1947.

Dr. Ramsey proposed the first successful theories of the chemical shift in nuclear magnetic resonance (NMR) and of electron coupled spin-spin interactions in mole-

(Continued on page 2)

## Huntington Town Officials Visit Upton



Dr. Azizullah Ansari outlines aspects of BNL's Nuclear Medicine Program for Huntington Town Supervisor Kenneth Butterfield and Dr. J. Wennig, Huntington's Director of Environmental Affairs. From left to right are: Associate Director Vincent O'Leary, Supervisor Butterfield, Dr. Wennig, Meyer Steinberg (DAS), who organized the tour, and Dr. Ansari. The Huntington Town officials visited the Laboratory on September 25, to get a first-hand look at BNL programs dealing with their special interest - the environment.

## J Challenges Current Theories

Last year's discovery of the J-particle at Brookhaven has evolved into one of the most baffling mysteries ever faced by the world of high energy physics. The existence of the new particle confounded accepted theories about the nature of matter and gave birth to numerous new ones.

The most popular theory put forward to explain the new particle involves charmed quarks and a new type of atom called charmonium.

A decade ago, quarks were theorized by Murray Gell-Mann to be the fundamental constituents of the proton. He said there were three quarks within each proton, each with an electric charge that was either one-third or two-thirds that of the proton charge. Humorously he named these fundamental particles quarks, after a fanciful line in the James Joyce novel *Finnegans Wake*, "Three quarks for Muster Mark! Sure he hasn't got much bark. And sure any he has it's all beside the mark..."

The extremely heavy J-particle, weighing three times as much as a proton and having a lifetime that is 1000 times longer than normal strongly interacting particles, pokes holes in Gell-Mann's quark theory. In most cases the heavier the particle, the quicker it decays, but the J-particle defies this rule. Why does the J live so long?

In 1970, Sheldon Glashow, of Harvard University, and his collaborators suggested the existence of a fourth quark to explain why the K-meson decays so slowly into a muon and an anti-muon. This hypothetical fourth quark is different from the other three because it possesses charm. Charm is a property of a particle that survives most reactions except weak interactions.

The J-particle decays too rapidly to possess charm but too slowly for a normal strongly interacting particle. Proponents of the charm theory say the J-particle is composed of two charmed quarks, but one is an anti-quark, thereby neutralizing the charm property. Although it is neutralized it is possible that such a particle could "remember" the charm property which would explain why it decays slower than the normal strongly interacting particle.

## Manowitz On TV

Watch for Bernard Manowitz, Associate Chairman for Environmental Programs in DAS, on Channel 6, Suffolk Cable TV, tonight at 9 p.m. He will be interviewed on "Realities" and will answer questions concerning the effect of energy activities on the coastal shelf around the New York and New Jersey regions. The interview was requested because of the interest generated by newspaper stories on Brookhaven's ongoing study, headed by Manowitz, to determine how the marine environment responds to a variety of natural and man-made conditions.

## Prominent Chinese Scientists Visit BNL

China's best known scientist abroad, Chou Pei-yuan, headed a high ranking, multi-disciplinary scientific delegation on an all-day visit to Brookhaven on October 2. This marked the fifth visit of scientific delegations to BNL from the People's Republic of China since 1972.

Professor Chou was born in China, but continued his higher education in the United States, receiving his bachelor's and master's degrees from the University of Chicago, and his Ph.D. from the California Institute of Technology in 1928. He is now the Vice Chairman of the Scientific and Technical Association and Vice Chairman of the Revolutionary Committee of Peking University. His particular research interests are theoretical physics and fluid dynamics.

Dr. Vineyard welcomed the group at Berkner Hall and renewed acquaintance with Professor Chou, whom he met at Peking University during his visit to China in the fall of 1974.

Warren Winsche, Associate Director of Energy, summarized Brookhaven's energy program and other staff members outlined research activities at the Laboratory of particular interest to the visitors. These spokesmen included: Department Chairman Mark Barton, Krsto Prelec and Eric Forsyth, Accelerator; Department Chairman Joseph Hendrie and John Fillo, DAS; and Ray Davis, Chemistry.

Although Professor Chou and a few others speak English, an interpreter accompanied the delegation, and Yung Yee Chu of Chemistry and Ling-Lie Wang of Physics were also on hand to ease the language barrier.

After lunch, cafeteria style, the group toured Linac and the AGS. In the evening they were guests of the Laboratory at dinner.

This delegation represents the Scientific and Technical Association of the People's Republic of China which conducts international exchanges in science and technology. Although there is no full exchange program between the United States and China, the National Academy of Sciences expects this important visit will lead to expansion of current programs.

The Chinese scientists will spend about a month in the United States and will travel from coast to coast, lecturing and holding discussions at various universities and research laboratories. Today they are visiting the State University of New York at Stony Brook.

## Stony Brook Honors Vineyard



Dr. John Toll (right) president of the State University of New York at Stony Brook, congratulates Laboratory Director George Vineyard on being the recipient of an award from the Stony Brook Foundation. Dr. C.N. Yang, (left) Nobel Laureate and Einstein Professor of Physics at Stony Brook, made the presentation to Dr. Vineyard at a dinner dance and reception at the Colonie Hill on Friday, September 26. The citation from the Foundation lauded Dr. Vineyard for his "distinguished contributions to higher education." More than 1000 people attended the affair that also honored W. Averell Harriman, former governor of New York State, who chartered Stony Brook.



Dr. Lewis Dahl checks the blood pressure of an experimental rat.

## CIBA Award To Dahl For Work In Hypertension

Dr. Lewis K. Dahl has been selected as one of three recipients of the CIBA Award for Hypertension Research. This is the first year the award is being given to recognize and encourage significant research in hypertension. Dr. Dahl is noted for his valuable contributions to understanding the role of salt in hypertension.

The award, sponsored by the CIBA Pharmaceutical Company, will be presented by the Council on High Blood Pressure of the American Heart Association, at the Council's annual meeting in Cleveland, Ohio, on October 10.

Dr. Dahl's research into the effects of salt in hypertension spans over a quarter of a century. After extensive experimental work with rats, he has demonstrated that there is a relationship between salt intake and hypertension. "The collection of evidence so far, both clinical and experimental, suggests with a high degree of probability that there is a correlation, in a group, between the average salt intake and the prevalence of hypertension in that group," explains Dr. Dahl.

He has developed two unique strains of rats, bred from the same parents. One strain was selected on the basis of its resistance (R) to induction of hypertension by salt and the other because of its sensitivity (S) to salt induced hypertension. On the same salt diet, the R-strain does not develop high blood pressure while the S-strain does. Dr. Dahl's research group has been selectively inbreeding these strains for almost 15 years. As a result, they are respectively getting more resistant and more sensitive to

the effects of salt as far as hypertension is concerned. It has now reached a point where the sensitive rats develop malignant hypertension and die within a few weeks after being put on a salt diet.

Because these two strains respond to other factors which cause experimentally induced hypertension in the same way that they respond to salt, the evidence indicates that the genetic make-up of the animal is critical in determining whether the animal will develop hypertension when subjected to a suitable stimulus.

Dr. Dahl, Dr. Knud Knudsen and David McChesney have authored a paper titled "Genetic and Blood Pressure Control in the R, S and SHR Rat." The SHR rat is another strain that develops hypertension spontaneously. The S-strain and SHR-strain were interbred to see whether the genes involved in producing hypertension were the same. "We got powerful working evidence that they were not," commented Dr. Dahl. Dr. Knudsen will present the paper at the time of the award presentation.

Besides Dr. Dahl, the other recipients of the CIBA Award are Dr. James Davis, Professor of Medicine at the University of Missouri School of Medicine, and Dr. Walter Kempner, Professor Emeritus of Medicine at the Duke University Medical Center. The award will consist of a \$10,000 prize to be divided among the three recipients, a gold medal and a certificate. "Although, through the award, I am the one at Brookhaven who gets the credit, I could never have done it by myself. There are many people who ought to be sharing it," said Dr. Dahl.

## In Memoriam

Harvey L. Spiess, a Nuclear Reactor Operator in the Reactor Division and a Laboratory employee since January 3, 1955, died suddenly on September 25, 1975.

Speaking on behalf of the Reactor Division Mike Brooks, who worked with him, said, "The Division will miss Harvey for a long time to come. Harvey was recognized as an outstanding reactor operator by all who worked with him. In the time he was given, he made important contributions in both the operation of all Brookhaven reactors and in the leadership of his fellow workers."

Spiess was very active in his union, the Oil, Chemical and Atomic Workers (OCAW), and served as its Secretary/Treasurer for several years.

He is survived by his wife Patricia, a former BNL employee.

## Hospitality News

The first morning coffee of the fall season will be held at the Brookhaven Center on Tuesday, October 7, from 9:30 to 11:30 a.m.

A formal program will not be presented in order that we may have plenty of time to welcome newcomers to the Laboratory and greet our old friends.

Please come and bring the children. Babysitting will be provided at no charge.

## J Challenges Theories (Continued)

Last spring, a group at Brookhaven, headed by Nick Samios, now Chairman of the Physics Department, saw an event during the analysis of 62,000 bubble chamber photographs that could be the first example of a charmed hadron. Physicists at Fermi-Lab found new phenomenon which could be interpreted as the production of a charmed particle. It was named the Y-particle. In January, another possible charmed particle, known as the Niu particle, was announced by a group of Japanese physicists.

So, physicists continue to delve into the mysteries of matter, with the hope that some day they will solve them. But each time they think they have their finger on the answers, a new discovery, like the J-particle, forces them to take another look at their theories.

## Official & Special Events

Wednesday, October 8  
Nassau Community College Tour  
BNL Lecture - Berkner Hall - 8 p.m.  
Thursday, October 9  
Victor W. Cohen Memorial Lecture -  
Berkner Hall - 3 p.m.

Tuesday, October 14  
Mandel School for Medical and  
Dental Assistance Tour

Wednesday, October 15  
Skills Unlimited Tour

Saturday, October 18  
Desk and Derrick Club Tour

## More For Less

The U.S. Postal Service first-class mail service improvement program will go into effect at the Upton Post Office on October 11, according to Postmaster Steve Garrett.

Under the new program, first-class mail will receive service that is equal to or better than air mail service. This major service step will include all first-class mail which weighs 13 ounces or less.

"In practical terms, what this service improvement means is that domestic first-class postage now will purchase the level of service that previously only air mail could buy. Under the new program, there no longer will be an advantage in purchasing air mail postage for domestic delivery," said Postmaster Garrett.

Priority mail (now starting at weight in excess of 13 ounces) which includes air parcel service and international air mail, is unaffected by the improvement program and will continue in its present form, the Postmaster said.

Air mail stamps will be sold for use on priority and international air mail and can be used in combinations with other stamps for first-class mail. Patrons can exchange air mail stamps and stamped envelopes and cards at full postage value for ordinary stamps and stamped envelopes and cards. Stationery bearing air mail indicia will be allowed to be mailed at the first-class rate.

## Memorial Lecture (Continued)

He developed the theory of thermodynamics at negative absolute temperatures. With associates he invented high precision methods of molecular beam spectroscopy including the atomic hydrogen maser and have set low limits to the electric dipole moment of the neutron as a test of time reversal symmetry.

He is the author of numerous books and the recipient of several awards, one of which is the prestigious Lawrence Award.

Dr. Ramsey is a member of the National Academy of Sciences, the American Philosophical Society, the American Academy of Arts and Sciences, the American Physical Society and the Board of Trustees of the Carnegie Endowment for International Peace.

He has been on part-time leave from Harvard since 1966 when he became President of the Universities Research Association which operates the Fermi National Accelerator Laboratory.

Prior to the lecture, tea and coffee will be served at 2:30 p.m.

## Weekend At Islip Airport

Don't forget to bring the family this weekend to the 1975 EXPO at Islip MacArthur Airport. There are a lot of fascinating displays on the ground and spectacular hi-jinks in the air.

The exhibits are in the terminal building and a large adjoining tent. The sponsorship of BNL's exhibit was incorrectly reported last week in the *Bulletin*. The sponsor is the Long Island Midsuffolk Businessmen's Action, who donated the exhibit as a public service.

The show is open to the public from 10 a.m. to 5 p.m., this Saturday and Sunday.

## BNL Host to Materiel Managers



The 20th Materiel Management Workshop, held at Brookhaven September 30 - October 2, included representatives from 17 major laboratories across the country. Shown during a break in the proceedings at Berkner Hall are: (left to right) Michael Guacci, Assistant Manager, Supply & Materiel; Bill Brownlee, Lawrence Livermore Laboratory; Phil Borzi, Manager, Supply & Materiel; Bill Graves, Oak Ridge National Laboratory; and Associate Director Vincent O'Leary.



Jean Burke Crawford

## Guard Changing

Jean Burke Crawford, editor of the *Brookhaven Bulletin* since March, 1974, is returning to the Washington, D.C. area to further her education.

Jean previously worked in the Public Relations Office during the summer of 1972 as part of the Summer Student Program. At that time Jean was a senior in American University, majoring in biology and journalism. Her interest in journalism was fostered by her father, who was a Far East photographer for Life magazine. Her mother, no stranger to journalism, is presently an editor at Time-Life publications.

After graduation from college, Jean worked in the Washington area for a medical publication, covering general assignments in the nation's capitol. A matter of weeks before coming to Brookhaven, Jean was married to Mark Crawford, a writer who spent his summer internship with Jack Anderson, a syndicated columnist based in Washington.

Since writing for the *Bulletin*, Jean has covered all manner of stories, ranging from high energy physics to recreation opportunities on Long Island. Because of her former association with summer students, she has kept in contact with the activities of other summer students as well as Youth On Campus members. As a firm believer in women's rights, she has kept a watchful eye on the research performed by women scientists at Brookhaven.

Replacing Jean as editor of the *Bulletin* is Bernice Petersen, former administrative assistant in the Office of Scientific Personnel. Bernice has had a long career in journalism, with college courses in the field from Columbia University and American University. After coming to the United States from Canada, she worked for a number of years in the public relations office of UNICEF at the United Nations and was an editorial assistant at Powell Magazines in New York.

While at Brookhaven, Bernice has been involved in the layout, writing and copy preparation for the Guide for Visiting Staff and the Scientific Staff Manual. In addition, she has contributed many articles to the *Bulletin*.

— Carl Thien

**Letters  
To The Editor**

To the Editor:  
I want to sincerely thank each and everyone at Brookhaven National Lab, who has been concerned with my health. It's good to know that I have a large "Fan Club."  
Thank you,  
Pete Gianlombardo  
Supply & Materiel

To the Editor:  
We were there the night Broadway left Brookhaven. It went out in "first class" tradition. From our arrival at the portico, the walk up the red carpet, the greeting at the door, meeting our companions for the evening and the anticipation of dinner and show (with dancing afterwards) we came to say goodbye.  
If that was goodbye - I, for one, will come to see and enjoy every farewell performance. We had excellent seats, the meal and service was first rate, wine and pastries were delicious and the setting of the stage was there for us to see.

From the audience reaction, I believe we were all part of the show - the empathy was there for all to feel and speaking with the cast and crew after the show, they felt it as well. When was the last time (or first) that you heard of a cast that wanted to applaud the audience. We were the cast as they hurled marital barbs at each other, enjoyed each others cute remarks and laughed at their little inside jokes.

On to the South Room afterwards to put the final touch to the farewell party with the music of the Isotope Stompers till the wee small hours.

All through the evening I saw the committee members standing off and smiling. What did they have to smile about, I wondered? All they did was put together an evening that gave everyone pleasure - just about the best Special Event that I can remember. George and Jo and their hard working committee can relax now and when they ask for future support just answer with a loud resounding I DO I DO!!!!

P.S. - One loud resounding cheer to the staff of the Center who did their job so admirably.  
— Pat Towey

**Cafeteria Menu**

**Week Ending October 10, 1975**

<b>Monday, October 6</b>	
Cream of Mushroom Soup	
Chicken a la King on Rice	1.10
Cheese Omelet & 1 veg.	1.00
<b>Tuesday, October 7</b>	
French Onion Soup	
Chinese Pepper Steak on Rice	1.20
Roast Fresh Ham & 1 veg.	1.20
<b>Wednesday, October 8</b>	
Split Pea Soup	
Breaded Flounder & 1 veg.	1.10
Spaghetti w/Meat Sauce & Garlic Bread	
All You Can Eat	\$1.00 plus tax
<b>Thursday, October 9</b>	
Cream of Chicken Soup	
Beef Hash & 1 veg.	1.00
Veal Pattie & 1 veg.	1.20
<b>Friday, October 10</b>	
Fish Chowder	
Broiled Filet & 1 veg.	1.10
Braised Beef & 1 veg.	1.20

**BNL Mountain Club**

Beautiful Southhaven Park, usually the exclusive domain of trout fishermen, opens its waters to canoeists for two weeks in October. The BNL Mountain Club will capitalize on this opportunity with a canoe trip Sunday afternoon, October 12. This stretch of the Carman's River is serene and placid with few, if any, major rapids. Call Ray Tessmer, Ext. 2002, for a reservation. If you have a lonely canoe that could be loaned to the Club that day, please call also.  
— R.G. Tessmer

**Attention Travelers!**

Effective immediately, airlines require that the passenger's name be on the outside of each piece of baggage that is checked. Baggage will not be accepted for checking if it is not tagged. To make it easier for you, free baggage identification labels are available from the airlines.



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**Machinist Apprentice Graduates**



Henry Henck (right) completed a 4-year program as an apprentice machinist in Central Shops. Henck joined the Laboratory as a Custodian in 1969 and in 1971 was selected for the apprenticeship program. Present at graduation ceremonies on September 17, were (from left) Ric Villacara, who monitors the BNL Craft Apprenticeship Program; Lee Grunberg, N.Y. State Bureau of Apprenticeship Training; and Irving Polk, Head of Mechanical Engineering Division.



Henry Henck at work as an experimental machinist in Central Shops.

**A Very Special Do**

Broadway once again led to a final glittering weekend of red-carpet treatment at BERA's dinner theatre. Ushered into Club 30's canopied entrance by a tuxedoed doorman, the guests sensed that a very special evening was in store. And it is safe to say, they were not let down for one minute!

Excellent dinners of prime ribs of beef or chicken Kiev were again leisurely enjoyed by capacity crowds. A bountiful supply of fine rosé wine created just the mellow mood for identifying with the marital joys and woes so candidly and warmly portrayed by the cast.

With book and lyrics by Tom Jones and musical score by Harvey Schmidt, the imaginative authors of the enduring success "The Fantasticks," I Do! I Do! was BERA's second special event offering of dinner theatre. Directed by Bob Waxman and produced by Vinary Productions Limited, this disarming musical comedy seduced us all with its honey taste of honest sentiment about, of all things these days, a happy marriage.

The cast skillfully used a cozy red setting, centered about a four-poster bed, which lent itself quite well to the expression of the inevitable ups and downs of marriage.

Annette Hanington was a very delightful and highly talented Agnes. Phil Mastrelle, an equally able vocalist, gave a zestful performance as her husband Michael. The pianist, on cue throughout, did a masterful job.

The musical chronicles the marriage of Agnes and Michael from the naiveties of their wedding night and their subsequent joy over the upcoming birth of an "entirely new person," as Agnes movingly sings "Something Has Happened," through their realization of dependence on each other, as together they sing "My Cup Runneth Over." Familiar chords are struck in the rousing duet "Nobody's Perfect" and in Michael's apt rendition of "Love Isn't Everything."

Surviving fortyish indiscretions and ambivalent feelings when their children grow up and marry, Agnes and Michael, aging gracefully before our eyes, decide to leave their big house. In a shamelessly sentimental and entirely charming gesture, the play ends as Agnes places her "God is Love" pillow on their four-poster and Michael throws on a bottle of wine to welcome the new tenants of their 50-year home.

In appreciation of a perfectly marvelous performance that kept us all attentive and warm, the audience applauded loud and long. Dancing afterwards to the music of the MJB Trio, on Friday, and the Isotope Stompers, Saturday, added the frosting to an enchanting weekend of fun at Brookhaven.

Kudos to Jo Gazzola, George Oldham, and the entire Special Events Committee. Let's do it again sometime!  
— Beverly Goldstein

**Bowling News**

Cathy Van Noy

**Pink League**

B. McGonigle was the star of the evening converting the 4-6-10 split. Grace Fales rolled a nice 181 game. High scratch series after the first three weeks was rolled by Cathy Van Noy and high series gross Marie Brenner with a 635 gross. There is a three way tie for first place with the "Gutter Getters" leading high gross series of 2333. High game was won by Marie Brenner with a 231.

**Red League**

Congratulations to K. Asselta who rolled a 689 gross to win his club award. The "Cosmos" had a good night with a 3075 series. Two hundred games were rolled by K. Asselta 212, J. Scesny 212, R. Nelson 211, E. Meier 203 and D. Klein 200.

**Black and Blue League**

Congratulations to John Eriksen on winning the 678 club award with a 682 gross series. The "Fudpuckers" broke the ice and won their first game. They may be the team to watch, a slow start could mean a late finish. High games for the evening were John Eriksen 216, John Ferrero 207, Kit D'Ambrosio 164, Irido Ferrero 160. High gross games were won by John Eriksen 252 and Iride Ferrero 220.

**Purple and White League**

The newest league now has a full eight teams and are well underway. High game was rolled by Ben Belligan 223 and high team series is held by the "Plutoniums" with a 2328.

**Arrivals & Departures**

**Arrivals**

Vassilis Agoritsas	Accelerator
Joel P. Brainard	Applied Science
John J. Walsh	Applied Science
Peter J. Wanderer, Jr.	Director's Office

**Departures**

Janice L. Berry	Reactor
Young H. Lee	Medical
Robert A. Meck	Medical
William J. Miller	Accelerator
Robert C. Pierce	Chemistry
Stoffer Reiffers	Chemistry

**Bike Race Date Changes**

The date for the fall bicycle race has been advanced to October 12, 1975, to take advantage of the (hopefully) warmer weather. This change in date does not affect the runners, who will still have their 5 and 10-mile foot races on October 26. Details for the bike race will be given in next weeks' Brookhaven Bulletin. Registration will be at the beginning of the race.

**Rifle & Pistol Club**

Our next regular business meeting, which will be held at 5:15 p.m. in the apartment area recreation building on October 8, is an important one. So please try to attend. We must select a nominating committee to find candidates for office in 1976, and decide what we want to do about the club dinner party that John Zahra is working on. About 30 people expressed interest in this dinner before the summer business recess, and John has made some preliminary arrangements at Pat and Jim's restaurant on Medford Avenue in Patchogue. With enough people we can have a prime ribs dinner for \$8.95. John would like to arrange for the dinner in October before the press of holiday activities.

Come to the meeting and hear the details of this and how our teams are doing.  
— Don Huszagh

**Casting Call —  
Charlie Brown**

That whimsical whammy musical "Charlie Brown" is coming to BNL! But first we want all of BNL's actors and actresses, young or old, experienced and eager, bashful and unknown - all are welcome to the tryouts being held on Monday and Tuesday, October 6 and 7, at Stage Two (Exhibit Hall) from 7:30 - 9 00 p.m.

Mrs. Ruth Galvin will direct the show which will be produced in mid-February with rehearsals starting in early January.

Linus, Lucy, Snoopy, Sally, Peppermint Patty and Peanuts - try out for the fun!

**Runner's Corner**

The BNL 3000-mile challenge with LLL started on Monday, September 29. Twenty-five runners from BNL have agreed to participate.

The minimum run is three miles for men and two for women. There is no minimum weekly distance, but each runner is expected to complete at least 100 miles in a 12-week period. But, to be competitive with LLL, the 100 miles should be completed in eight to ten weeks. This means that each runner should try to improve on both time and distance. Many of the LLL runners are averaging 40 - 60 a week. And Ruth Anderson, one of the top women marathoners in the world, is on their team.

Each runner will receive a time and distance form from Bob Powell every week. It should be filled out and returned to him.

Any others who are interested in running for this challenge should contact Gus Prince, Ext. 2902; Don Mackenzie, Ext. 4490; Bill Thomlinson, Ext. 3978 or Bob Bari, Ext. 2629.

The BNL 5 and 10-mile runs are still scheduled for Sunday, October 26, at 10 a.m. Categories for the races and other details will be announced in future issues of the Bulletin.

# Classified Advertisements

### Placement Notices

Each week the Personnel Office lists personnel placement requisitions, currently being processed. The purpose of these listings is, first, to give notice of all non-scientific staff positions being filled and, second, to give employees an opportunity to request consideration for themselves through the Personnel Office. In filling vacancies, the Laboratory's objective is to give first consideration to present employees, as follows: employees within the immediate group having the vacancy, employees within the department or division, employees within the Laboratory as a whole.

For further information regarding a placement notice, or to request consideration for an available position, contact Supervisor, Personnel Placement & Development, extension 2874 or 2882.

211. LIAISON ENGINEER - Seeking BS degree or equivalent in mechanical, marine, or civil engineering and a minimum of three years' experience in plant or liaison engineering. Assignment involves project evaluation and the coordination of a variety of technical functions associated with water and electrical power distribution systems, electro-magnets, radiation shielding, and other equipment used in supporting the experimental program at the Accelerator Department. Mechanical Engineering Division.

212. DEVELOPMENT ENGINEERING - BS degree or equivalent in mechanical engineering and a minimum of five years' related experience. Assignment involves design, development, fabrication, and installation of equipment and components for high energy physics apparatus. Position offers opportunity to use advanced techniques involving stress analysis, high vacuum technology, electro-mechanical applications, and applied physics. Mechanical Engineering Division.

213. BIOLOGY ASSOCIATE - Minimum BS degree or equivalent in marine biology with practical experience in hydrographic and biological sampling techniques. Exposure should include familiarity with biological laboratory techniques and work with live zooplankton. Department of Applied Science.

### Autos & Auto Supplies

66 CHECKER - Marathon, tuned, new tires. Ext. 3688.  
56 ROLLS BENTLY - S1, new paint & tires, excel cond. \$6500. 589-7213.

68 FORD MOTOR - 6 cyl, 200 series; auto trans, approx 40,000 mi, excel cond, both for \$150. Ext. 3254, 727-6280 after 6.

64 FORD VAN - New brakes, paint job, racks, new tires, bed cabinets, sink, bucket seats. \$600. Pat 924-8766.

70 OLDS CUTLASS - Wagon, full power, ac, equipped w/trailer hitch & air shocks. \$1100. 475-7892.

TRUCK TIRE - Heavy duty, mounted on new Dodge rim. 9.50x16.5, 8 ply rating, Uniroyal Fleetmaster. \$65. Dee, Ext. 3675.

2 TIRES - 775-14, good for spares. \$6 for both. Nick, Ext. 2534.

WHEELS - 14x6, Fairlane, Falcon, Torino, 67-76, new w/valves. 2 for \$16. Paul, Ext. 3277, 298-4985.

71 CHEVY SPORT VAN - 20, 6 cyl, standard, 65,000 mi, new tires, new brakes. \$1925. John, Ext. 4520.

TIRE - E78-14, absolutely brand new, never, never used. \$25 firm. 281-6130 eves.

73 PINTO HATCHBACK - 4 spd trans, ac, 22,000 mi. \$1800. Ext. 3506.

TIRES - New, used & recaps, most sizes, also extra rims. Ken, 289-8212 eves, no Lab calls!

72 OLDS - 98, 2 dr, full power, air, am/fm, 1 owner, immaculate cond. 473-8748.

65 CHEVROLET - 2 dr hdtp, excel running cond, auto, ps, radio. \$495. 588-4733 after 8.

72 INTERNATIONAL TRAVELALL - 1210, 4x4, 3/4 ton, ac, 4 spd, custom interior, extras, excel cond. \$3995. Jeff, Ext. 3284, 929-6398 after 7.

63 NASH AMBASSADOR - 4 dr sedan, V8, ps, auto, new brakes & tires. 744-5582.

65 VW SQUAREBACK - Needs clutch & lots of work, motor seems to be ok. \$100 or best offer. John, Ext. 2242.

69 PONTIAC CATALINA - Hdtp, auto trans, ps/pb/ac, good cond. \$600. Stumer, Ext. 3722.

66 VW SQUAREBACK - Rebuilt by VW dealer, 15,000 mi on engine, new brakes, ball points, etc, excel in & out, great mileage. 751-7140.

67 VW BUG - Flared fenders, cragar rims, F-60 tires, am/fm stereo. \$650. Bob, Ext. 3512, 929-4270.

70 FORD LTD - Brougham, ac, steel belted radials. \$1200. Sipe, Ext. 3559.

72 YAMAHA - 175 cc, street or trail, under 2000 mi, clean. Asking \$450. Frank, Ext. 4095.

### Boats & Marine Supplies

17 1/2' FIBERGLASS THUNDERBIRD - 55 hp, Homelite, 74 Shoreline galvanized trailer, extras, boat & motor, \$850, w/trailer, \$1250. 473-1682.

JOHN BOAT - Aluminum cartopper floatation, 12', \$90. Ext. 3326, 286-0497.

73 TILT TRAILOR - Including spare, bearing buddies, bracket for elec winch. \$175. Marty, Ext. 3284.

30' RICHARDSON CLASSIC - 1929, new mahog bottom, ribs, floors, engine beds, inside bare, 4 yr old Chy Ace. \$1400. Paul, Ext. 3277.

19 DORY - Oak, cedar, copper, outboard well, retractable rudder, could easily be converted to sail, in water, needs paint. \$125. Paul, Ext. 3277.

23' PEMBROKE - Sport fisherman, complete refinish, flying bridge, full canvas, d/f, extras, excel cond. Asking \$1995. Laird, Ext. 4068, 298-5092.

34' BALTZER - Twin Chrysler engines, camper back, excel fishing or family boat. 331-1718.

25' SLOOP - Gaff rigged, 4 cyl engine, sleeps 2. \$1800. 281-4080 after 4.

### Miscellaneous

2 DOORS - 30x80, used, exterior doors w/frames, hardware & matching alum storm doors. Best offer. Paul, Ext. 2447.

DINING RM - Light walnut, modern, table, leaf, china, buffet, 4 swivel base chairs. \$325. 744-2821.

DRESSERS - (3) 3-drawer, nice; (1) 4-drawer; all kinds of beds, spring & mattress; old style ice boxes, metal; some knock-knacks. 281-5385.

DOLBY - Trac noise reduction unit for open reel or cassette, top of line model #An-180. \$160. John 744-6356 days.

MILLIAMMETERS - Volt, OHM, Simpson, model 260, used, Lafayette model 99-5013, almost new, make offer, Ext. 4349.

ENGLISH BULL DOG - Approx 9 months old. Asking \$50. 289-6517.

CRIB - Colonial, maple, like new, cost \$110, sell \$60. Saxon, Ext. 3435.

STOVE - Small wood or coal burning stove, excel cond. \$75. 878-4214 eves.

OLIVE CHAIR - 2 walnut end tables, 2 brass lamps. 878-4214 eves.

ANTIQUUE CHAIRS - Pair hand carved walnut, need recaning or upholstery. \$40. 878-4214 eves.

ELEC GUITAR & AMP - Good cond. Asking \$165. 289-0753.

CAMERA - Nikon F, Tn finder, F1.4 lens, 1974 model, like new. Asking \$400. Mike, 878-2486.

CHINA CLOSET - Solid rock maple, 72". \$200. Lorraine, 281-6708.

CHRISTMAS WREATHS - I will take your order now. Izzy, Ext. 3613.

GE WASHING MACHINE - 14 lb capacity, copper-tone, very good cond. Asking \$85. B. Ponte, 234-0773.

WILDFLOWER HONEY - Pure natural fresh from upstate, 1 lb, 2 lb & 4 lb jars. \$1.25/lb. Antonia, Ext. 3725, 473-3328, 6-8 p.m.

FLUTE - Armstrong model, excel cond. \$100. Sampson, 286-9413.

TURNTABLE - BSR McDonald 500A w/new Shure M91ED cartridge. Sell all \$30. Mike, Ext. 3198.

BAR - Woodgrain formica w/black leatherette trim, 76" long, 3 bar stools, black seat, chrome legs, wooden back. 281-5667 after 5.

PLANES - Chance Vought F4U-4 Corsair, 30 3/4" wingspan, ideal for radio control; Fokker DVII, 24" wingspan, U-control, both of balsa wood. Phil, 286-3679.

PACHYSANDRA - Good ground cover for sun or shade. 50 for \$5. 744-5448.

3 PUPPIES - AKC registered female great danes, 6 weeks old, 2 fawns & 1 brindele, wormed & first shots. \$100 each. 281-4862.

CUB SCOUT UNIFORM - Complete, size 8. D. Berg, Ext. 2907.

YEWS - Upright & spreading, 1 1/2' high, you dig out. \$1 each. 643-5719.

LAWN SWEEPER - Parker, good cond. \$15. Jim, Ext. 4040, 289-0876.

ELECTRIC GUITAR - Stanoard, brand new, 2 pickups. \$45 firm. 581-0967.

HYDRANGEA - French, potted, 3 yr old, \$2 each; creeping junipers, 5 yrs old, \$2 each. John, 744-5867.

WHITE PINES - Nursery grown, to 6', \$5 each, you dig up; Alberta spruces, 7 yrs old, \$4 each. John 744-5867.

DINETTE SET - Early American, dark pine, 4 chairs, formica top, 1 leaf. \$40. Dick, Ext. 3860.

2 AIR CONDITIONERS - 5000 btu, excel cond, \$50 each; Singer factory model sewing machine, in work table, \$75. 929-4270.

COPIER - Polaroid print copier, makes B&W copies of orig color or B/W print, never used. \$25 or best offer. Juanita, Ext. 3639.

COUCH - Sectional, 8' w/covers, \$85; rugs, polyester w/foam padding, 12'x5', 12'x18', 13'x9', \$200 takes all. 289-2646.

RECLINER - Green, \$75; lounge chair, \$35; B&W TV console w/radio & phono, needs repair, \$35. 289-2646.

HOLLYWOOD DAYBED - W/wedges, eclipse mattress, walnut ends, excel cond, reasonable offer. Ext. 3381.

MOWER - Snapper self-propelled, rear bagger, 3 1/2 hp, good cond. \$95. 473-2664.

CHANDELIER - Hanging Spanish style, 6 candle type lights around beveled amber globe, antiqued black wrought iron. \$45. Rich, Ext. 2495, 928-4527.

BUILT-IN WALL OVEN - GE, stainless steel counter top range set, working cond. \$50; sofa & chair, very good cond. \$50. 286-1855.

ENCYC BRITANICA - 28-volumes, beautifully bound, leather, custom built case, like new. \$295. Al, Ext. 4721, 273-5574.

TYPEWRITERS - Electric office type, all in good cond. \$100 each. Bob, Ext. 4652, 289-0357.

ELECTRIC TYPEWRITER - Royal electress, office size, elite type. \$75. Palmer, Ext. 3743.

CB RADIO - Lafayette HB-525 F, brand new. \$150. John, Ext. 3354.

8" RADIAL SAW - Sears best, stand, dist collector, many extras, excel cond. \$175. Paul, Ext. 3277, 298-4985.

GAS RANGE - 4-burner w/oven timer, good cond. \$25. 281-5827 after 6.

36' WOOD EXTENSION LADDER - 3 yrs old, good cond. \$45. John, Ext. 4520.

CYMBAL - Zilogram, 16" diameter, thin, ride, crash w/deluxe Ludwig cymbal stand. Both \$50. 589-1069.

FOLK GUITAR - Stella, 6 string w/case. \$20. 589-1069.

JUDO UNIFORM - New, \$25. 281-6130 eves.

GARAGE DOOR - 8' overhead, all parts, best offer, Mary Smith, Ext. 4622.

HEADBOARD - King size, \$30; satin drapes, 10' wall area, green, \$50; chandelier, black wrought iron, 10-arm, \$50; sofa bed, rolls out from bottom to sleep w, Danish modern, \$125. 581-9199.

TELEVISIONS - B/W Zenith 21" portable, \$50; B&W Zenith 19" portable, \$25; B/W Motorola 19" table model, \$40; Panasonic 19" color table model, \$125. All in working cond. 581-9199.

30" GAS RANGE - Caloric bottle, almost new, gold color, cost \$325, asking \$250. 585-7094 after 5.

LAMP - Brass & walnut table lamp. \$20. Ext. 2041.

W-W LEAF GRINDER - Mulcher w/elec motor. \$85. Goldman, Ext. 3589.

WOMEN'S BICYCLE - Raleigh 3 spd, good cond. \$65. Ext. 2041.

RUG - 12x7, green, \$10; 2 twin blankets, yellow, \$3 each; bedspread, yellow twin, \$5. Matko, Ext. 4362.

PARAKET W/CAGE - \$8, Hampster w/cage, \$8. Matko, Ext. 4362.

TRANSFORMER - Step-up, 110-220 volts, 350 watts. \$20. Matko, Ext. 4362.

MEN'S WATCH - Seiko, automatic, alarm, day & date, gold plated bracelet, new. \$100, retail \$175. Matko, Ext. 4362.

UTILITY BOWLS - Stainless steel, 1 qt, 75¢, 1 1/2 qt, \$1. Goldman, Ext. 3589.

PIPE VISE - Plumber's, on stand, \$20; lawn sweeper, good working order, but canvas needs repairing. 727-1329.

BABY'S FURNITURE - Folding dressing table, \$8; crib, standard & sturdy. \$15. 727-1329.

CANVAS - 16x28" w/gromets, new, \$65; helper springs, Chrysler 57-70, new, \$18. 475-1683.

TRACTOR - Gravely 30", rotary mower. \$175. Ext. 3688.

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

**For Sale**  
SHOREHAM - Cape cod, frame & brick, living rm w/ fireplace, dining, den, 3 bedrms, kitchen, 2 baths, center hall, 2 car garage, 1/2 acre, beach rights, many extras. \$60,000. 744-8949.

BROOKHAVEN - Colonial 4 bedrm, 2 1/2 baths, 2-car garage, full basement, fireplace in large living room, formal dining, country kitchen, den, 3/4 acre plot, Middle Island Schools. \$51,500. 286-0158.

VERMONT - 2 acres w/12'x70' mobile home, fully equipped, panoramic views, located 8 mi from Okemo Mt & other major ski areas. \$14,700. Bob, 473-8186.

MILLER PLACE - 3 bedrm ranch, 2 baths, eat-in kitchen, dining, living, full basement, garage, 150x100 corner. \$39,500. 744-2821.

CUTCHOGUE - 1 acre building lot, water view, beach rights, near schools and shopping. Asking \$18,500. G. Laird Stubbings, Ext. 4068, 298-5092.

LARGE WELL CONSTRUCTED HOUSE - 2nd floor, 2 bedrms, dining rm, kitchen, tile bathrm; 1st floor: 2 bedrms, living rm, dining, family, kitchen, full cellar, all large rms, steam heated oil burner, domestic hot water, 100x100 fenced lot, 2-car garage, beautiful trees & grounds. Charley, 281-5385.

CATSKILLS - Delaware Co, 20 acres, excel trailer site, panoramic view, spring, open & wooded, good hunting, will divide. \$19,000. Pete, Ext. 3297, 586-3579.

WEST ISLIP - 4 bedrms, 3 1/2 baths, 2 dens, play room, living, dining, eat-in-kitchen, 3-car garage, heated, in-ground pool, w/w carpeting, underground sprinkler system. \$59,900. Terry, 878-0130, 878-2215.

HOLBROOK - 10 rooms, 2 1/2 baths, 2 fireplaces, 3/4 acre, by appointment. 588-3697.

**For Rent**  
TO SHARE - 5 bedrm house in Medford, 7 miles to Lab. \$30/wk + 1/2 util. Jack, Ext. 4255, 286-6708.

VERMONT VACATION - 3 bedrm mobile home, 10 acres, close to fishing, golf, tennis, avail weeks or weekends. Bob, 473-8186.

### Classified Ad Policy

**Deadline is 12 noon Monday for publication Friday of the same week.**

- The Brookhaven Bulletin's classified section may be used only by active and retired Laboratory employees.
- All items for sale or rent must be the advertiser's property.
- Ads for material acquired for resale in association with a full or part-time business cannot be accepted.
- Firearms offered for sale or trade may not be brought on site.

- Ads not carried because of space restrictions will be held for publication in the next issue.
- Ads are run only once and must be resubmitted if they are to be repeated.
- Ads should be restricted to 20 words or less and typed or printed on the form provided, and must bear the employees signature.

- For Sale: Auto & Auto Supplies
- For Sale: Boats & Marine Supplies
- For Sale: Miscellaneous

- Wanted
- Carpools
- Lost & Found
- Services

Check  the heading applying to your ad. Print or type your ad in 20 words or less.

Ads concerning property for sale or rent cannot be accepted on this form. Special Real Estate Ad forms are available at the Office of the Brookhaven Bulletin, Room 111, 40 Brookhaven Avenue.

Employee's Signature \_\_\_\_\_ Life No. \_\_\_\_\_ Ext. \_\_\_\_\_  
Send to: Brookhaven Bulletin, Building 460, 40 Brookhaven Avenue (Ext. 2345).