

## Clinic Welcomes Breitenstein as New Head

The Occupational Medicine Clinic (OMC) welcomed a new Head on Monday, April 17: He is physician Bryce Breitenstein, former president of the Hanford Environmental Health Foundation (HEHF) in Richland, Washington. HEHF is the occupational health contractor at the Department of Energy's Hanford Site, which includes the Hanford Nuclear Reservation and the Pacific Northwest Laboratory.

Breitenstein succeeds physician Laura Sbarra, who had been OMC



Laura Sbarra

Head since 1979. Sbarra has chosen to become one of the OMC's three staff physicians, along with Emmanuel Dador and Khem Fatimi. In addition to the medical staff, the OMC also encompasses the Employee Assistance Program, headed by Clinical Psychologist Jannifer Hill, and the Health Promotion Program.

"We are fortunate that, after giving ten years of excellent leadership to the Clinic, Dr. Sbarra will continue to provide medical assistance to employees," said Richard Setlow, Associate Director for Life Sciences.

"And we are doubly fortunate to have someone of Dr. Breitenstein's caliber to succeed her," Setlow continued. "He has earned a national reputation as a fine physician for his handling of the well-known 'McCluskey case.' In addition, his tenure at Hanford has brought him into contact with situations similar to those he will encounter at Brookhaven. We welcome him warmly."

In August 1976, two years after Breitenstein arrived at HEHF, 64-

year-old Hanford worker Harold McCluskey accidentally received a very large internal deposition of radioactivity when he was contaminated by an explosion of an ion-exchange column containing an acid solution and the plutonium by-product americium. Breitenstein headed the team that treated McCluskey.

Though McCluskey never returned to work, he was able to live in retirement at home with his family, until his death in 1987. The case generated great media interest, and "changed my life," said Breitenstein. "Often, the public affairs aspects of the case overwhelmed the medical aspects."

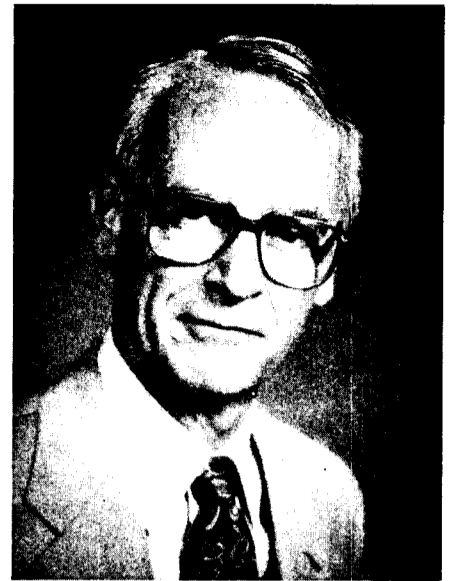
At BNL, he plans to concentrate on occupational medicine and expects to continue "being proactive in preventive health, such as encouraging fitness, proper diet, stress reduction, stopping smoking — all the things that help people live better longer," he said. "I'm sure that Dr. Sbarra and the OMC have been very active in all

these areas already, and I will certainly continue to expand these efforts."

Bryce Breitenstein first trained as a pharmacist, then went to medical school at the University of Oregon, where he earned his M.D. In 1964, he completed a residency in internal medicine at Los Angeles County Hospital, then practiced his specialty in Montana during the 1960's.

After receiving a fellowship in environmental health at the University of Washington, Breitenstein completed a preventive medicine residency in 1973, and joined HEHF in 1974.

Until last week, then, Breitenstein had always been a Westerner. However, for him to take up his new position in OMC, and for his wife Mikel Breitenstein to assume her new post as a computer scientist in the Management Informations Systems Division, the couple drove cross country, arriving on site almost two weeks ago. They have now taken up residence in



Bryce Breitenstein

Photos on this page by Roger Stoutenburgh.

the Danish House — the first people to ever live in the innovative experimental house built at BNL by the Danish government.

## WHO Is at BNL

To change national policy on any subject is a formidable task. When the subject deals with how far human health and safety should be considered in decisions involving technological risks, the task becomes even more challenging. Yet, this is a principal mission of the World Health Organization (WHO), and the work of WHO senior scientists such as Frank Go.

Go, who has over 24 years of experience in directing and advising on different WHO projects in places ranging from London to Kuala Lumpur, is concerned about the increasing danger of major health problems in developing nations where more and more pollution-intensive industries are being installed. In his present assignment, Go is helping develop WHO activities to promote national policy reforms so that human health considerations are taken into greater account in development planning.

### Mission Introduced: Workshops

These concerns had previously been addressed at BNL. In fall 1985 and summer 1987, workshops were held on planning and developing activities in environmental risk assessment.

Leonard Hamilton, Head of the Bio-



Leonard Hamilton (left), Department of Applied Science, and Frank Go of the World Health Organization discuss areas throughout the world where health risk-assessment studies may be initiated.

medical and Environmental Assessment Division (BEAD) in BNL's Department of Applied Science, hosted and coordinated the workshops in his dual capacity as Director of the BNL WHO Collaborating Centre for the Assessment of Health and Environmental Effects of Energy Systems

and WHO focal point on health and environmental effects of energy systems.

In addition to Hamilton and the risk assessment specialists in BEAD, attending the workshops were repre-

(Continued on page 2)

## Testing the Axion Axiom



Among the 35 researchers at the Workshop on Cosmic Axions, held at Brookhaven on April 13-14, Michael Turner (center), of the University of Chicago and Fermi National Accelerator Laboratory, discusses the axion theory with (left) Bernard Sadoulet, University of California, Berkeley, and (right) David Seckel, University of Delaware, and Mark Bocko, University of Rochester.

Yet to be detected, the ghost-like particles called axions have been postulated as an extension of the standard model to explain CP conservation in strong interactions. Though weakly interacting, axions could conceivably make up most of the mass of universe and affect the evolution of stars. Lighter than the electron, axions are believed to have a mass ranging either from a thousandth to a millionth electron volt or from one to five electron volts.

Looking for axions in these mass ranges, a small, worldwide search for axions is ongoing and includes two experiments at BNL's Alternating Gradient Synchrotron: E805 is a Rochester/BNL/Fermilab collaboration that is the longest running and most advanced axion-detection experiment to date; and E840 is under construction involving the same collaborators, but it is designed to make axions rather than detect existing ones. In addition, one of the rare kaon decay experiments, E787, is sensitive to the presence of axions.

The Workshop drew most of those active in the field — researchers from the U.S., Japan, U.K., Western Europe and U.S.S.R. In addition to theory talks by Turner and others, progress on E805, and experiments at KEK in Japan, the Stanford Linear Accelerator Center and the University of Florida were discussed. Status reports on E840 and other experiments were also presented.

## WHO Is at BNL (cont'd)

sentatives from the International Atomic Energy Agency, the United Nations Environment Programme, the United Nations Industrial Development Organization and WHO. As a result, WHO published *Emissions, Environmental Transport, and Dose-Response Models: Guidelines for Case Studies* in 1988. This will be a practical reference tool for personnel in the developing countries.

"Bringing about a change in perception and policy at the national level involves a great deal of promotional work and interaction between WHO and national agencies," explained Go.

### Mission in Process

It also involves a great deal of data collection. "Most ill effects of industrial development can be prevented," said Go, "and prevention is more cost-effective than cure. But very few indigenous data exist to guide decision makers. So government policy has been invariably biased in favor of short-term industrial benefits at the expense of human health and longer term environmental considerations."

Go explained that once accurate information on the nature and potential scale of environmental health risks is available, decisionmakers will be able to see the need for action and the advantages of preventive measures.

He feels strongly, however, that the burden of data collection and analysis must be borne by local institutions. Thus, each country's planning authorities can establish priorities with their own data, and the information is credible. In the initial stages, WHO will help direct efforts to identify appropriate institutions, and, where necessary, provide assistance to develop these institutions' capacity to analyze results and provide reliable risk assessments.

Once information on risks is available, WHO will follow up by promoting institutional and policy approaches for guiding development planning. Subject to the availability of funds, studies will be initiated to test barriers to decision-making processes between sectors and to develop risk profiles for a range of countries.

"People tend to associate WHO and other international agencies with studies, but they are only a means to an end," concluded Go. "Our real work is to translate studies into live changes in national action that will promote human health and welfare."

— Liz Seubert

## Art Bus to Brooklyn

A few tickets remain for the bus trip to Brooklyn Botanical Gardens and Art Museum on Saturday, April 29, at \$15. Leave BNL 9 a.m., return 5 p.m. Contact Liz Seubert, Ext. 2346.

## BWIS Speaker

Carmen Benkovitz, Department of Applied Science (DAS), will speak about "Some Results from Environmental Programs at BNL," at the next meeting of Brookhaven Women in Science (BWIS) on Tuesday, April 25, in Room A, Berkner Hall, at noon.

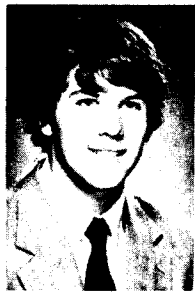
A member of DAS's Atmospheric Sciences Division since 1974, Benkovitz's principal interests have been in the areas of compilation and analysis of large environmental data sets, including emissions inventories, air quality and precipitation chemistry data. She holds an M.S. degree in chemical engineering from Columbia University and is currently a Ph.D. candidate in the Department of Applied Science of the Columbia Graduate School of Arts and Sciences.

Everyone is invited to attend this talk.

# 1989 AUI Scholarships Announced

Thirteen daughters and sons of BNL employees have been selected to receive 1989 AUI Trustee Scholarships. Each scholarship winner will receive \$2,000 per year towards her or his college education, for up to four years of study.

The 13 were selected from 63 applicants by an independent committee appointed by the College Scholarship Service, Princeton, New Jersey, which administers the program for Associated Universities, Inc. (AUI).



**Carl E. Anderson** is the son of Carl W. Anderson, Biology Department. He lives in Stony Brook and attends Ward Melville High School. He has been accepted at Harvard University, where he plans to study geology, medieval history and Scandinavian literature.

**M.G. Bhat**, the son of Mulki Bhat, Department of Nuclear Energy, will major in chemistry at Cornell, Johns Hopkins, Princeton or Yale University, or the University of Pennsylvania. He is a senior at Miller Place High School and resides in Miller Place.



**Nora Castro** is the daughter of Harriet Castro, Fiscal, and John Castro, Plant Engineering. To major in electrical engineering, she will attend Cooper Union. A student at Southold High School, she lives in Southold.

**Juliana Chan**, the daughter of Bing Chan, Department of Nuclear Energy, will study textile design at Cornell University. Living in Stony Brook, she is a senior at Ward Melville High School.



**Brian Diamond** is the son of David Diamond, Department of Nuclear Energy, a resident of Port Jefferson and a senior at Earl L. Vandermulen High School. He was accepted at Cornell University, where he plans to major in biology.

**Sarah Garber**, the daughter of Meyer Garber, Department of Applied Science, will go to the University of California, Santa Cruz, to study liberal arts. A Bellport High School student, she resides in Bellport.

## English Courses Offered on Site

English as a Second Language classes are being offered on site on an ongoing basis. The free course is designed for adults who would like

instruction in conversational English, as well as in reading and writing the language.

- **Beginner classes** have been scheduled as follows: Thursday, April 27; Thursday, May 4; Thursday, May 11; Wednesday, May 17; Tuesday, May 23; Tuesday, May 30; Tuesday, June 6; Tuesday, June 13; Tuesday, June 20; Tuesday, June 27.

- **Intermediate classes** are held on Mondays.

All classes are held in the Personnel Training Room, Bldg. 459, and begin at 7 p.m.

All are welcome; appointments are not necessary. For more information, call Pat Knisely, Ext. 7631.

## Union Meetings

### International Brotherhood Of Electrical Workers

Local 2230, IBEW, will hold its regular monthly meeting on Monday, April 24, 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 and the president's report.

### Oil, Chemical & Atomic Workers

The next meeting of the OCAW Union, Local 8-431, will be at 5:15 p.m., Tuesday, April 25, at Foresto's, on Route 25 in Calverton.

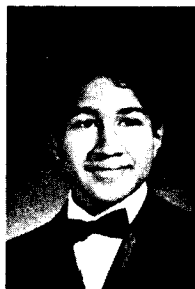


**Sharon Laurie** is the daughter of John Laurie, Photography & Graphic Arts Division. A resident of Miller Place, where she attends Miller Place High School, she plans to matriculate at either the University of Virginia or the State University of New York at Binghamton.

**Peter McHugh Jr.**, the son of Peter McHugh, Management Information Systems Division, will major in mechanical engineering at Lehigh University. A senior at Shoreham-Wading River High School, he lives in Shoreham.



**Pinaki Mukherji** is the son of Swapna Mukherji, Plant Engineering Division, a resident of Dix Hills and a student at Half Hollow Hills East High School. He will enroll at the University of California, Berkeley, to pursue premed studies.



**Joseph Muller**, the son of Thomas Muller, Accelerator Development Department, lives in Manorville and attends Center Moriches High School. He will study engineering at Lehigh University, Pennsylvania State University, the State University of New York at Binghamton or the University of South Carolina.



**Linda Wan-Lin Shiue** is the daughter of Chyng-Yann Shiue, Chemistry Department, and Grace Shiue, Biology Department. Residing in Setauket, she attends Ward Melville High School, and she plans to enter either Brown University or Stanford University, to major in anthropology and for premed studies.



**Christopher Slavinsky** is the son of William Slavinsky, Plant Engineering, a resident of Selden and a student at the Stony Brook School. He will major in electrical engineering after matriculating at Lehigh University.



**Glen Turf**, the son of Larry Turf, Director's Office, will enroll at Colgate University to study foreign languages and international relations. Living in Hauppauge, he is a senior at Hauppauge High School.



## Contest! Contest!

*There was a fine poet named Lear  
Whose limericks were without peer.  
If you think you can write,  
Poems like his, with a bite,  
There's a contest awaiting you here!*

In honor of the birthday of the great English limerick writer, Edward Lear, who was born in 1812, May 12 has been proclaimed Limerick Day. We're not sure just who made that proclamation, but it's a wonderful excuse for running the second Limerick Contest in the Bulletin's history (in 1983, the contest focused on Love Limericks for Valentine's Day).

To win the first prize of a five-balloon bouquet of your choice from the BERA Sales Office, you must write the best limerick having something to do with BNL and send it to the Brookhaven Bulletin, Bldg. 134, by Wednesday, May 3. Enter as many times as you wish, but remember — your poem must be in limerick form and have a BNL focus. The best of the bunch will be published in the Bulletin on Limerick Day, May 12.

## Equipment Demo

R.S. Crum and Company will present an overview of Swagelok and CAJON fittings, and NUPRO and WHITEY valves, in Berkner Hall, on both Tuesday, April 25, and Thursday, April 27, from 11 a.m. to 2 p.m.

## Exhibit Next Week

April 24-28 is National Science and Technology Week — a fact that will prompt an exhibit in Berkner Hall highlighting the several student programs offered at BNL throughout the year. The exhibit, a joint effort of the Public Affairs Tour Program and the Office of Educational Programs, will be on display all next week.

## On Artificial Intelligence

A meeting to discuss interest in artificial intelligence at BNL will be held in the C&CD Seminar Room, Bldg. 515, on Thursday, April 27, from 11 a.m. to noon.

All attendees will be asked to complete a form indicating their interest and experience. Completed forms will be organized in a booklet and sent to all participants to provide information exchange.

For more information, and if you are interested but cannot attend, contact Ralph Fullwood, Ext. 2180.

## Local Users Group

The next meeting of the Upton Local Users Group will be held on Wednesday, April 26, at 10:30 a.m., in Room B, Berkner Hall. Presentations will be made on "Telecommunication at BNL" and "Network Servers for PC Communication."

Time will be available for questions after the presentations. All computer users are welcome to attend. For more information, call Zohreh Parsa, Ext. 4748.

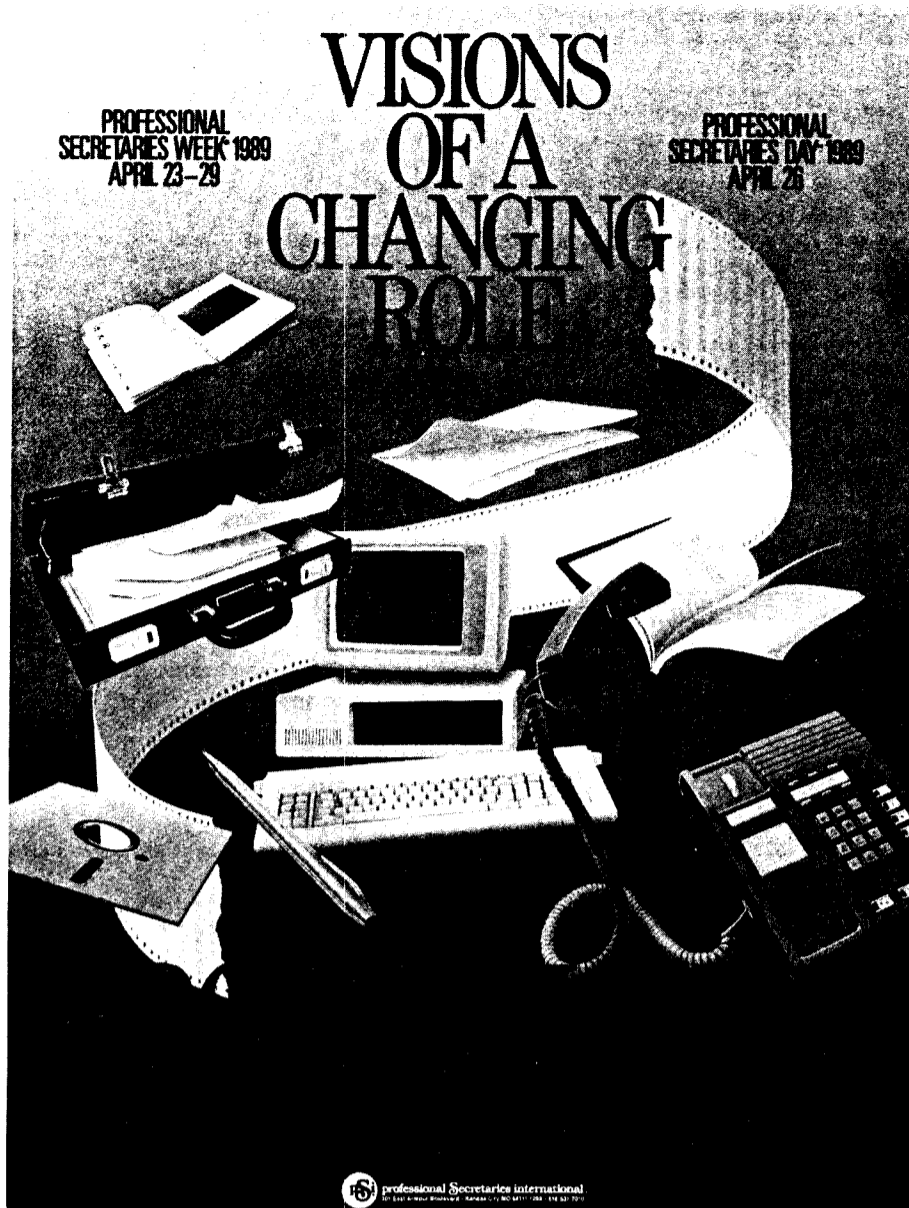
## Radio Club

The BNL Amateur Radio Club last met in 1985. To reestablish the Club, an organizational meeting is scheduled for Thursday, April 27, at noon, in Room D, Berkner Hall. Current plans are to build and operate a 450-MHz-band amateur repeater. Formerly active members and all other interested parties are urged to attend. For more information, contact Andy Feldman, Ext. 3264, or George Sintchak, Ext. 3061.

## Nursery School

The Upton Nursery School is enrolling three- and four-year-old children for the 1989-90 school year. The cooperative preschool offers three-hour classes three days a week in the Recreation Building on site. The school is open to families of BNL employees and their relatives. For more information, call Karen Indusi, 473-6550.

The Upton Nursery School has an open part-time teaching position, beginning September 1989. Send resume and references to P.O. Box 324, Upton, NY 11973. For more information, call Annetta Krienen, 744-2937, or Biays Bowerman, 281-2463.



**Opportunity knocks** on Professional Secretaries' Day, April 26, and throughout Professional Secretaries' Week, April 23-29: an opportunity to recognize all administrative office support personnel — receptionists, clerks, secretaries, administrative assistants, office managers and others who represent the many facets of the changing office professions.

Since its formation in 1982, the Upton Chapter of Professional Secretaries International has emphasized the evolving role of today's administrative office support personnel and highlighted an up-to-date image of this ever-changing profession. For more information about PSI, call Membership Chair Sharon Jones, Ext. 2493.

## Camera Club

The Camera Club will hold its regular monthly meeting on Thursday, April 27, at 5:30 p.m., in Berkner Hall. Topics to be discussed include the schedule of events, and the pros and cons of different camera formats. Members and nonmembers are encouraged to attend and participate.

## Bowling

**White League**  
Pete Stelmaschuk had a 235, Ed Sperry IV 232/222/203/657 scratch, Ken Riker 201, Sharon Smith 187, Karen Jacobs 181.

**Purple League**  
Ben Belligan had a 213, Ed Beadle 213, Bob Schuman 209, Frank Dusek 205, Marsha Kipperman 196/190, Cheryl Miezianka 187.

**Red/Green League**  
J. Muller had a 238, T. Holmquist 225, H. Marshall 224, C. Bohnenblusch 223, R. Mulderig 215, S. Dimaiuta 211, A. Pinelli 203.

## Volleyball

Standings — Week of April 10

League I	League II
Playoff Finals	1st Round of Playoffs
Upfagrabs defeated Dinkers, 3-0	Set Ups versus Fossils, 2-0
	Krush defeated Slammers, 2-1
	Ziegfeld Veggies defeated Nuts & Bolts, 2-0
League III	Open League
Playoff Finals	Playoff Finals
High Volley'em defeated MISfits, 3-1	Phoenix defeated Dig Your Lips, 3-1

## Microcomputer Club

Al Wallner, Safety & Environmental Protection Division, will discuss CD-ROMs — powerful optical storage devices that allow access to large data bases on conventional PC, XT, AT and PS2 computers — in a lecture sponsored by the BNL Microcomputer Club on Thursday, April 27, at noon, in the main conference room of Bldg. 475. Wallner will cover the different aspects of optical storage and, as an example of how such a system can be used, he will demonstrate how BNL employees can get chemical information quickly.

All those interested are invited to attend and welcome to bring lunch. For more information, call Frank Salzano, Ext. 4458.

## Basketball

Playoffs — Second Round

First Game			
Knicks 74		Light Source 56	
W. Cummings 15	M. Fulkerson 17		
L. Walcott 14	P. Doll 13		
F. Thompson 10	P. Ratzke 11		
G. Thompson 10	T. Garrison 7		
T. Mendez 9	K. D'Amico 4		
M. Lawrence 8	I. Garcia 3		
T. McGill 4	R. Church 1		
B. Turner 4			

Three-point shots: Fulkerson, Garcia, Garrison, Mendez, Walcott (4)

Second Game			
Celtics 65		Penetrators 57	
C. Edwards 18	R. Tatum 17		
J. Gaeta 14	R. Tonkyn 14		
D. Hoggard 14	R. Domenech 11		
M. Colon 11	R. Garappolo 9		
P. Browne 6	T. Abbott 4		
M. White 2	C. Jones 2		

Three-point shots: Domenech (3), Gaeta (2), Garappolo (2)

## Archery Club

The BERA Archery Club will hold a meeting on Wednesday, April 26, at 5:15 p.m., in the Recreation Building.

New bylaws will be distributed and important matters discussed. All club members are asked to attend, and anyone interested in joining is welcome.

## Walkers Needed

On Sunday, April 30, a BNL team wearing BNL/AUI T-shirts will participate in WalkAmerica, the annual national walkathon held in more than 1,000 local communities to raise money for the March of Dimes. Each walker helps the cause by signing up sponsors who pledge a certain amount for each kilometer completed or who make flat donations.

To earn money for the March of Dimes and a T-shirt from BERA, pick up a registration form and route information sheet at the BERA Sales Office in Berkner Hall, any weekday, 9 a.m. to 2 p.m.

## Cooking Exchange

"Appetizers and Desserts" will be on the menu for the next meeting of the International Cooking Exchange, on Wednesday, April 26, at 12:30 p.m., in the Recreation Building

All BERA members and their families are invited to Cooking Exchange meetings. A fee of \$2 is charged to pay for the ingredients, and everyone may sample the dishes prepared. New members — and your favorite recipes — are welcome. Babysitting is provided at 50¢ per child.

## Golf Tournament

The Brookhaven Golf Association (BGA) will sponsor a golf tournament at Bethpage State Park on Thursday, June 8. To participate in the tournament, greens fees of \$14 must be submitted to the BGA no later than May 5. Only those who prepay will be able to play in the tournament.

Tee-off for this tournament will start at 11 a.m., and tee-off times can be reserved beginning May 22.

Make your check payable to the BERA Golf Association, and send it to Bob Mills, Bldg. 901A by May 5. For more information, call Joe Carbonaro, Ext. 5139.

## Cafeteria Menu Week of April 24

<b>Monday, April 24</b>	
Soup: Cream of turkey	(cup) .75 (bowl) .95
Angel-hair spaghetti w/meatballs & garlic bread	3.10
Beef & cheese burrito on rice	2.95
Lite-line: Salad plate	2.25
Hot deli: Philadelphia cheese steak	2.85
<b>Tuesday, April 25</b>	
Soup: Matzoh ball	(cup) .75 (bowl) .95
Chicken à l'orange w/pot. or veg.	3.10
Pot roast w/pot. or veg.	3.10
Lite-line: Skinless chicken w/veg.	3.10
Hot deli: Hot corned beef	2.85
<b>Wednesday, April 26 — Secretaries' Day</b>	
Soup: Spring vegetable	(cup) .75 (bowl) .95
Roast beef w/brown gravy & pot. or veg.	3.10
Virginia ham w/pineapple & pot. or veg.	3.10
Lite-line: Tortilla basket stuffed w/lettuce, tomatoes, cucumbers and your choice of egg, tuna or chicken salad	2.50
Hot deli: Veal Parmesan hero	2.85
<b>Thursday, April 27</b>	
Soup: Seafood bisque	(cup) .75 (bowl) .95
Chicken pot pie w/puff pastry	3.10
Beef macaroni & cheese	3.10
Lite-line: Ham & cheese quiche w/fruit	2.95
Hot deli: BBQ ham	2.85
<b>Friday, April 28</b>	
Soup: Beef barley	(cup) .75 (bowl) .95
One-half Cornish hen w/stuffing & veg.	4.65
Lite-line: Broiled whitefish w/pot. or veg.	3.10
Hot deli: Hot ham & cheese croissant	2.85

# BROOKHAVEN BULLETIN

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