

## BNL/Stony Brook Will Train Environmental Disease Specialists

BNL's Medical Department and the Pathology Department of SUNY Stony Brook's Health Sciences Center will join forces this fall to train scientists specializing in environmental pathology of the respiratory tract. The National Institute of Environmental Health Sciences has awarded \$587,500 in funding to a five-year joint program which will provide both pre-doctoral and postdoctoral training in the field of environmental health and respiratory disease.

Stony Brook officials called the program "a major development in interdisciplinary activity for the Health Sciences Center and the University," which will bring together faculty from several other Stony Brook departments, including Medicine, Biochemistry, Pharmacology and Mechanical Engineering.

A vital resource for the program will be BNL's new inhalation toxicology facility. Now in the final stages of completion at the Medical Research Center, the new facility will be used by some of the trainees to investigate the health hazards presented by airborne contaminants which result from the burning of fossil fuels. Significant health problems are posed by these contaminants, particularly in light of the proposed shift from oil back to coal as the major source of fossil energy over the next few decades.

The NIEHS funding will support two trainees at the pre-doctoral level and two at the postdoctoral level during the first year of the program, according to project director Philip Kane, Assistant Professor of Pathology at Stony Brook, and co-director Robert Drew, head of BNL's inhalation toxicology program. Four trainees will be supported at each level during the second year, and six at each level in the third through fifth years.

Trainees will attend formal lecture and laboratory courses as well as special seminars in environmental biology and pathology, said Drew, who is also a Research Associate Professor of Pathology at Stony Brook. The funding will allow trainees to travel and attend scientific meetings, and will support visits to Stony Brook by leading environmental scientists from other institutions.

Trainees will also conduct their own research projects, either at the Stony Brook

campus or at BNL's Medical Department.

Although most of the program's courses and seminars will be given at Stony Brook, BNL's inhalation toxicology facility will be an important research aid for some of the trainees, said Drew. The facility's extremely sophisticated equipment will allow controlled exposure of animals to highly toxic compounds, and combinations of compounds, which might be found in air pollution. "For students interested in animal research, the new facility will be a unique resource which is not available at Stony Brook," Drew said.

The BNL facility would be ideally suited for research projects on changes in lung architecture or biochemistry due to exposure to chemical pollutants, he explained. Other projects might include studies of the different ways in which sick and well animals respond to pollutants - research which will increase our understanding of why people with chronic pulmonary disease are at greater risk than healthy people during periods of heavy air pollution.

Drew says that it is possible that some of the trainees - particularly on the postdoctoral level - will be in residence at the Lab, doing the bulk of their work in the inhalation toxicology facility.

Pre-doctoral students in the program  
(continued on page 2)

## Winsche Named Deputy Director

The appointment of Warren E. Winsche as Deputy Director, effective February 1, was announced on Tuesday by Laboratory Director George H. Vineyard.

In his new post, Dr. Winsche will assist the Director in all phases of the general administration of the Laboratory, and will stand in for the Director in the latter's absence. Winsche has been Associate Director for

Energy for the past three and one-half years and will continue to have responsibility for the applied science and energy technology programs of the Laboratory, which includes overseeing the Department of Nuclear Energy and the Department of Energy and Environment.

Warren Winsche has been associated with Brookhaven since 1946 when he came to head the Pile Engineering Division. He participated in the design of the Brookhaven Graphite Research Reactor and the Hot Laboratory, and later was appointed Assistant Chairman of the Reactor Department.

In 1952, Winsche left Brookhaven to join E.I. duPont de Nemours as Senior Research Supervisor. He remained there for 10 years and became Research Manager of the Chemical Separations Engineering Division at the Savannah River Plant.

In 1962 he returned to Brookhaven as Chairman of the Nuclear Engineering Department (later Applied Science) and headed that department until July 1, 1975 when he was appointed Associate Director for Energy.

Under his leadership, a broad base of energy-related programs has been developed at Brookhaven, including energy systems analysis, energy storage development, reactor safety, nuclear materials safeguards, atmospheric sciences, coastal oceanography and energy materials development.



Warren Winsche

## Lab Will Stress Minority Participation in ISABELLE Construction

Brookhaven has announced that contractors bidding on construction contracts for the new ISABELLE accelerator will be required to submit a minority business enterprise plan aimed at increasing the contractor's use of minority business subcontractors on the job.

Contractors will be required to include a minority business enterprise plan along with their bids, and a detailed plan acceptable to the Laboratory must be included in the contract, said Laboratory Director George Vineyard.

The decision to require such a plan was made following a meeting held in late December, between officials of Brookhaven and DOE and representatives of the Suffolk County Human Rights Commission and the Long Island Minority Coalition. The purpose of the meeting was to discuss ways of securing stronger participation of minorities in the new construction projects now getting underway at the Laboratory. These projects are the \$275 million ISABELLE accelerator and the \$24 million National Synchrotron Light Source.

According to Dr. Vineyard, the meeting was "extremely helpful in focusing on the problems and finding ways to surmount them." He said that the representatives of the Long Island Minority Coalition agreed to assist the Laboratory in locating potential bidders from the minority community. It was agreed that further meetings with the Laboratory and DOE officials will be held periodically in order to assess progress and explore other means of bringing minority businesses and minority workers into these projects.

Dr. Vineyard noted that Brookhaven has for a long time exerted special efforts toward insuring equal opportunity for all races and for both men and women. The Laboratory has a number of special recruitment and training programs directed toward these ends. The Laboratory also has a Small Business/Minority Business Liaison Office, which has the responsibility of assuring that minority-owned businesses and small businesses are given full opportunity to bid on Laboratory procurements and contracting actions. The Office is headed by Joseph Haeg, who is assisted by William Rogers.

Dr. Vineyard noted that in the last four years, while the Laboratory population has increased 29%, the number of minorities employed has increased 54%, and the number of women has increased 50%. Minorities now represent 13.5% of the staff, and women 21.4%.

## Speakers Bureau January

**William Graves (DEE)**, Kiwanis Club of Southampton, "Energy Conservation and Solar Applications, January 4.

**Edward McFadden (Math)**, Career Day at Commack North High School, "Careers in Computers," January 8.

**Bruce Martin (Math)**, Career Day at Adelphi University, "Careers in Computing (Scientific Applications)," January 10 and 11.

**Karen Schaich (Med)**, Career Day at Adelphi University, "Careers in Biochemistry, food science, and nutrition," January 11.

**Harvey Thomas (DO)**, Career Day at Adelphi University, "Careers in Engineering," January 10 and 11.

**Julio Acevedo (Med)**, American Lung Association of Nassau-Suffolk, "Synergistic Effects of Smoking with other Environmental Hazards," January 18.

## Assertiveness At BNL

Another series of Assertiveness Workshops conducted by Francine Berger has been scheduled. The Workshop Meetings will be held on February 16, 23, and March 2, from 12:30-2:00 p.m.

The objective of the workshop is to improve the participant's ability to communicate and interact with others, both on the job and in their personal lives.

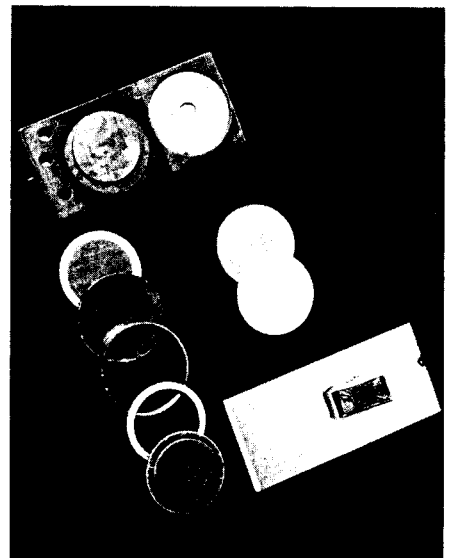
This program is open to all employees work permitting. Enrollment forms are available at the Personnel Office reception desk and must be completed by Monday, February 5. For information please call Robert D'Angio, Ext. 2878.

## Patent Awarded To Distenfeld

Carl Distenfeld, a health physicist in S&EP, was recently awarded patent number 4,100,414 for a "Method for Measuring Dose-Equivalent in a Neutron Flux with an Unknown Energy Spectra and Means for Carrying Out that Method."

The patented method is a significant improvement over prior personnel dosimeters. "The detector measures two different parts of the exposure spectrum," Distenfeld said, "so that the combined result can more correctly describe the neutron dose that the wearer was exposed to."

Information taken from the high and low energy detectors are compared allowing an improved interpretation for the low energy albedo neutron detector. The neutron dose equivalent is the combined interpretation of the high energy thorium fission dosage track detector and the adjusted



Composite albedo damage track personnel neutron dosimeter. —photo by Rosen

lower energy albedo neutron thermoluminescent detector.

"The improved interpretation method is unique and significantly improves the state of the art," stated Distenfeld, who was also issued a patent for "Mixed Species Radioiodine Air Sampling Readout and Dose Assessment System" earlier this year.

Although not yet in use at the Lab, Distenfeld noted that "the largest scale use of the dosimeter is potentially by those in the

(continued on page 2)

## Korean Delegation



Representatives from the Korean Institute of Energy Conservation visited Brookhaven recently on the first step of a U.S. tour, with a view toward establishing an R&D program and identifying opportunities for technical exchange. Lewis Jacobson, BNL's Energy Conservation Coordinator arranged the agenda for their visit here and, at one point, they visited the Alternate Liquid Fuel (ALF) area. Examining a sample of ALF are (from left) Park Young Jae, Chief Engineer, Kim Jee Dong, Director of Technology and Shin Dong Ryul, Chief Researcher, with Jack Hennessy (Plant Engineering).

## Jill Kaufman Among Glamour's Top Ten

Jill Kaufman has known since October of last year that her picture, work and academic history would appear in the February issue of *Glamour*, one of the most widely read women's magazines in the country. Selected as one of the magazine's ten outstanding U.S. working women for 1979 from a field of 700 applicants, Jill manages not to let the considerable honor overwhelm her. In fact, when the magazine came in her mail earlier this month, "it was a long time," she said, "before I got up enough courage to open it, to see my picture and read about myself." Jill has since grown accustomed to the publicity.

*Glamour's* "Success Choices" is an annual competition sponsored by the magazine to find ten outstanding young working women. Selections are made on the basis of the applicant's age, level of education and how much she has accomplished in her field. Jill is the youngest of this year's winners. She is the only female engineer in BNL's Reactor Safety Division. Her work involves finding a new way to predict the behavior of a nuclear reactor during a large-scale accident.

Jill was prompted to enter the contest when she read about the women chosen for 1978. She felt that her accomplishments and education made her as equally qualified as past winners. "I saw the application in last February's issue," said Jill "and sent for the information. It meant I had to write an essay about myself and how I used my education to attain my career goal." "Writing it," she continued, "was terrible. I waited until the last minute."

In October, *Glamour* conducted a telephone interview with Jill at the Lab which left her "white as a ghost." Shortly after, Jill was notified that she'd been selected as one of the winners.

Jill received her undergraduate degree from Rensselaer Polytechnic Institute in mechanical engineering and received her M.S. from M.I.T. where, as a professor's research assistant, she wrote a computer code to predict the behavior of a cooling system in the event of an accident. As a result of her graduate work, Jill was offered her job at the Lab.

One of the most exciting features of being selected as a winner, Jill commented,

### BNL/Stony Brook (Cont'd)

will be working toward a Ph.D. in pathology, and it is expected that trainees will go on to careers in basic or applied research in government or private industry, or in research and teaching at academic institutions.

The new program will help fill "a pressing national need for qualified individuals in environmental medicine," noted Marvin Kushner, Dean of Stony Brook's School of Medicine.

## New York Train Trip

The Hospitality Committee is planning a group railroad trip to New York City on Wednesday, February 7. Departure will be at 8:28 a.m. from the Patchogue LIRR station. Round-trip fare for adults is \$2.45, children under six years ride free.

Reserve a ticket by sending your fare through the U.S. mail to P.O. Box 322, Upton, New York 11973, no later than Thursday, February 1. Make checks payable to Brookhaven National Laboratory. Your tickets will be given to you on the train. Refunds will be made only if cancellations are received by the Friday preceding the scheduled trip.

Group railroad trips to the City are normally scheduled for the first and third Wednesdays of each month. If there is a change in the schedule, a notice will appear in the *Bulletin*. Listed below are the scheduled train trips to the City for 1979.

- February 7 & 21
- March 7 & 21
- April 4 & 18
- May 2 & 16
- June 6 & 20
- July 11 & 18
- August 1 & 15
- September 5 & 19
- October 3 & 17
- November 7, 21, & 27 (Tuesday)
- December 5 & 19



Jill Kaufman

was being photographed for *Glamour* in their Manhattan offices. "Because I was interested in what was going on while I visited, I was taken out to lunch and then to a fall fabric showing," she noted.

*Glamour* didn't ask, however, about Jill's activities outside the office. She has played French horn for half her life and performs six concerts a year with the University Orchestra at Stony Brook and with the Bellport Community Chamber players. She is a member of the BNL Roadrunners and competes in on-site softball and volleyball. Jill also has a student's pilot license.

"I work with nice people here," Jill said, "and I enjoy my work. I like the Lab's relaxed atmosphere and I can continue to learn." But she is not a big fan of Long Island: "It seems to lack an identity," she thought.

Jill has plans of returning to school "eventually" but feels no pressure to attain her Ph.D. immediately. She is considering pursuing an M.B.A. and hopes to move into a management position as a technical advisor in the future.

## Laredo To Replace Frantz in BERA Concert

Justus Frantz, the pianist scheduled to perform in Berkner Hall on February 2, broke his wrist earlier this week. BERA is fortunate to have as his replacement, Ruth Laredo, who has been enthusiastically received at Brookhaven in two previous concerts.

Her program, which starts at 8:30 p.m., will include three mazurkas of Chopin and his Sonata in B flat, the Poeme, Op. 32, and the Sonata #9, the "Black Mass" of Scriabin, Rachmaninoff's Etude Tableau in C Minor and two Moment Musicaux of Op. 16 and La Valse by Maurice Ravel.

As soloist with major U.S. orchestras, Ruth Laredo has achieved a reputation as one of today's foremost pianists. Her sensational debut with Boulez and the New York Philharmonic during the 1974-75 season was greeted with raves.

She has won wide recognition for her recordings of the complete Scriabin Sonatas and Preludes, as well as for her recordings of Ravel and the complete piano solo works of Rachmaninoff.

Her career has had many facets, and her interest in a wide range of music has given her a reputation of enormous versatility and energy. She has, for example, performed virtually the entire chamber music repertoire. In a feature article about her in the *New York Times*, entitled, "At the Keyboard, This Lady is a Tiger," John Gruen said, "If luck and the stars are with her, she may just possibly become the pres-



Ruth Laredo

ent generation's first truly major American woman pianist."

Tickets are \$4.00 general admission, \$2.00 for students and persons over 65 and \$1.00 for persons under 18.

## CREF Values

January	\$35.72	February	\$34.96
March	36.15	April	39.28
May	39.62	June	38.94
July	41.03	August	42.17
September	41.86	October	38.18
November	38.80		
		December	\$39.44

## Service Awards

The following employees will receive service awards during the month of January.

### Thirty Years

- Sophie P. Kostuk.....Chemistry
- Gerhard H. Tiller.....Instrumentation
- Donald R. Tuttle.....Physics
- George S. White.....Biology

### Twenty Years

- Gerald W. Bennett.....Nuclear Energy
- Gwendolyn B. Bergin.....Energy & Env.
- George J. Hummer.....Physics
- George Kissel.....Energy & Environ.
- Lois J. Konon.....Medical
- John B. Laurie.....Photog. & GA
- Leslie L. Lawrence.....Appl. Math.
- Gerald S. Levine.....Safety & Env. Prot.
- George R. Reisert.....Plant Engrg.
- Richard J. Sutter.....Physics

### Ten Years

- Anthony Brown, Jr.....Plant Engrg.
- Stephen E. Eiseman.....Accelerator
- Joanna S. Fowler.....Chemistry
- Donald E. Grant.....Safety & Env. Prot.
- Henry J. Henck.....Central Shops
- Eddie J. Hobson.....Plant Engrg.
- Leroy James.....Physics
- Roosevelt S. Lee.....Safety & Env. Prot.
- Alexander B. Park.....Accelerator
- George L. Turpin.....Plant Engrg.

## Patent Award (Cont'd)

pressurized water power reactor field and by personnel working around large accelerators such as the AGS." The newer badge, which is slightly longer than the one currently used at BNL, also measures the gamma and neutron exposure components (like the film badge), except that the neutron portion is measured by two components which allow a variable interpretation for a more accurate estimate of the wearer's dose equivalent.

Distenfeld, a Lab employee for twenty years, is involved with special developmental projects such as instrument development for environmental measurements subsequent to power reactor accidents. His current project involves designing and overseeing the construction of the HFBR computer controlled stack monitoring facility.

## Arrivals & Departures

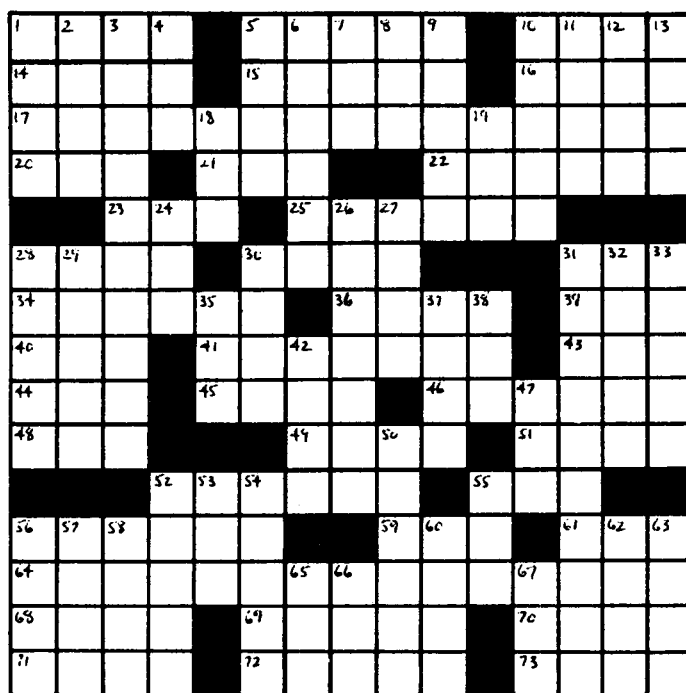
### Arrivals

- Elizabeth T. Coyle.....Medical
- Carl G. Holmstrom.....Central Shops
- Robert Kaszuba.....Ofc. of Manage. Sys.
- Kenneth G. Morton.....Accelerator
- Robert W. Siemon.....Accelerator
- Donald W. Swinford.....Nuclear Energy
- James R. Wangelin.....Medical
- Fay Y. Yang.....Biology

### Departures

- Gerald K. McKenna.....Safety & Env. Prot.

## Crossword Puzzle



### Across

- 1 Administrative..... Abbr.
- 5 Road past the Chemistry Dept.
- 10 Court coups for Ryu Iwai
- 14 Nightclub name, for short
- 15 Variety of figs
- 16 Study at the library
- 17 It smiled on Bill Greenberg
- 20 Pearlstein of Nuclear Energy
- 21 Part of i.e.
- 22 Choose
- 23 TV band
- 25 Isolate
- 28 Rational
- 30 In..... (bored)
- 31 Prince of Roadrunners
- 34 ..... one's word (believe)
- 36 Subject of DOE-BNL symposium, Nov. 6-7, 1978
- 39 Suffix with differ or defer
- 40 Mr. Baba
- 41 E.N. Shaw's department
- 43 Narrow inlet
- 44 Half a sawbuck
- 45 Lover of Narcissus
- 46 Like our Cafeteria fare
- 48 Dried fruit
- 49 Seed of a patent
- 51 Some chemical tracers
- 52 Building 134 is .... from Building 459
- 55 Inquire
- 56 Largest arteries
- 59 Craggy peak
- 61 Voucher of a sort
- 64 Recent events for ISABELLE and NSLS
- 68 Famous British school
- 69 Whitetails
- 70 Concerning

- 71 Feature of the HFBR building
- 72 Leavening agent
- 73 Requirement

### Down

- 1 "Come Blow Your Horn" segments
- 2 N.Y.C. section
- 3 Mountain Club activity
- 4 Children's game
- 5 Employees Collier and Colsmann
- 6 Kind of beetle
- 7 Saturated
- 8 Gremlin
- 9 Dr. ...., children's author
- 10 "Thanksgiving Special" pie choice
- 11 "Great Soda Debate" item
- 12 Crump of Applied Math
- 13 In the mail
- 18 Third man in the ring

- 19 Brooks or Torme
- 24 .....-haw
- 26 Mixed league volleyball team
- 27 "And ..... , my lord, have not been idle": Anon.
- 28 ..... Services, W.S. Webster's group
- 29 Small Hawaiian tree
- 30 Suffix with symptom or emblem
- 31 Our applicant for Torch Bearer
- 32 Undergo fusion
- 33 Works overtime
- 35 Seifert of Plant Engineering
- 37 Turkish noble
- 38 Caustic
- 42 Its area codes are 216, 419, 513 and 614
- 47 Regular "Bulletin" feature

- 50 Oleates and acetates
- 52 Whistle ..... (act carefree)
- 53 Is able
- 54 "I Am Woman" singer
- 55 Genesis vessel
- 56 Advanced toward retirement
- 57 "..... take arms against a sea of troubles"
- 58 Office
- 60 Tobacco kiln
- 62 Fairy tale villain
- 63 Like some merchandise in 47 down
- 65 Stinger
- 66 U.S. cartoonist Gardner
- 67 ..... twelve thousand, none —from *Richard II*, Shakespeare



