



## Commissioner Thompson Killed In Plane Crash

AEC Commissioner Theos J. Thompson, who on Thursday, November 19, delivered the Dedication Address at Berkner Hall for the Tandem Van de Graaff Facility, died on Wednesday, November 25, in a plane crash.

Dr. Thompson; his aide, Col. Jack Rosen; and Bill Smith, of the Reynolds Electrical and Engineering Company, were killed when a light plane in which they were passengers crashed into Lake Mead, Nevada.

According to authorities the Cessna 206, operated by the United States Park Service, disintegrated when it hit the surface of the lake.

Of the four persons aboard the plane for a routine observation patrol, only the pilot, Charles Roland, was rescued.

Dr. Thompson, a nuclear engineer, had been a member of the Atomic Energy Commission since May, 1969, when the Senate confirmed his nomination a month earlier by President Nixon.



Theos Jardin Thompson

Dr. Thompson, who was born in Lincoln, Nebraska, on August 30, 1918, was on the staff of Los Alamos Scientific Laboratory from 1952 to 1955, specializing in reactor design and construction.

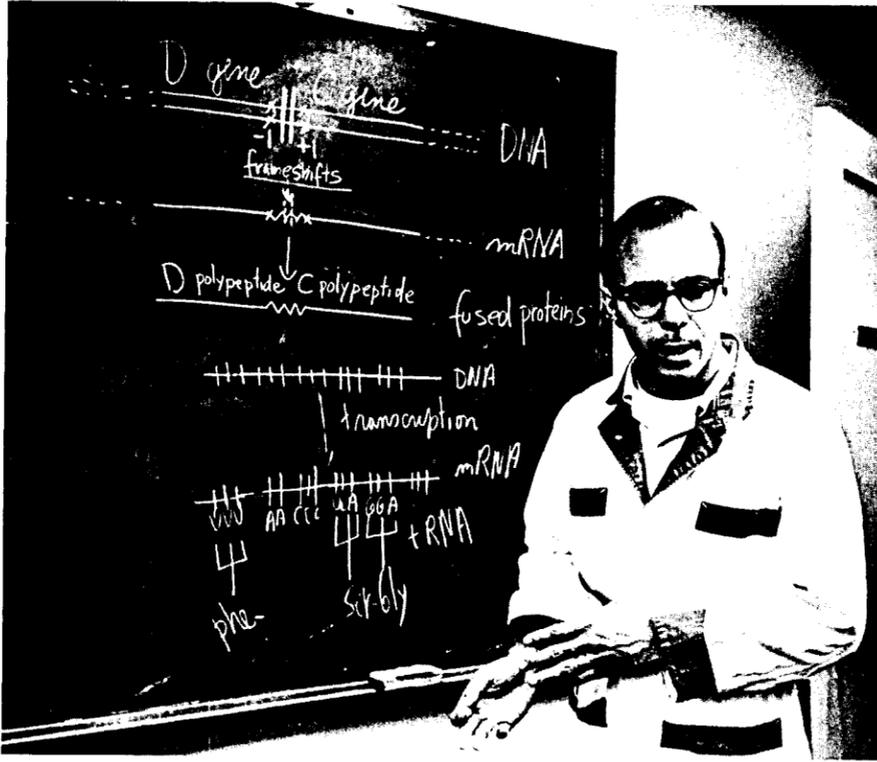
In 1955, he was appointed professor of nuclear engineering at the Massachusetts Institute of Technology, where he was also director of its nuclear reactor. Two years later he was appointed to the Atomic Energy Commission's advisory committee on reactor safeguards.

Dr. Thompson was one of five scientists named in 1964 by the commission to receive a \$5,000 Ernest O. Lawrence Memorial Award for outstanding contributions to nuclear research. He was cited by the commission "for leadership in developing safe, useful and economic nuclear reactors, and for teaching of nuclear engineers."



Commissioner Thompson (right) and Colonel Jack Rosen on an inspection tour of the AGS after the Tandem dedication.

## Evolutionary Puzzle Answered?



Dr. Joseph Yourho, Biology, explains the process by which a complex protein molecule was made in a laboratory at BNL. Yourho and Tadahiko Kohno worked in Building 421 (opposite Central Shops) because their research involved the use of a strain of *Salmonella* which could harm laboratory animals. Their research has shown a plausible mechanism by which complex protein molecules could have evolved.

## Van Slyke Awarded Honorary Degree

Dr. D.D. Van Slyke, Medical Research Center, was awarded an honorary degree of Doctor of Medicine by the University of Ulm, by Dr. Theodor Fliedner, Professor of Clinical Physiology, University of Ulm, and former member of the BNL staff. The degree was awarded for Dr. Van Slyke's many and significant contributions to medicine and to science in general.

The school of science and medicine of the University of Ulm has taken its credo (to integrate the natural sciences into medicine and to use scientific methods in the diagnosis and treatment of disease) from the pioneering work of Dr. Van Slyke in these endeavors.

The Departments of Biology and Medicine at BNL, initiated by Dr. Van Slyke in 1949, have been host to a number of foreign scientists since that time. The School of Science and Medicine of the University of Ulm now wishes, through the present award to Dr. Van Slyke, to act as spokesman for these many scientists in expressing gratitude for the stimulation, invaluable training and encouragement received during their stay at BNL.

It is the intention of Ulm to organize a Symposium next spring, at the Schloss Reisenberg near Ulm, entitled "Quantitative Methods in Medicine," in honor of the pioneering efforts of Dr. Van Slyke in this field.

## Tandem Dedicated With Ceremony Of Speeches And Tours

As is befitting for a pair of "Emperors" all due homage was paid to the Tandem Van de Graaff facility on its dedication on November 19.

In addition to the people who worked on the project as craftsmen or scientists, wives and sweethearts joined the scientific and governmental notables who made November 19 a memorable day for BNL.

Dr. Maurice Goldhaber, who opened up the ceremony in Berkner Hall, spoke of the "new baby" in warm terms. He mentioned that Brookhaven provides the finest tools and the best climate for research, as demonstrated by the Tandem facility.

Commissioner Thompson, who gave the dedication address, congratulated all those concerned with the project for their ability to hold the financial line and build such a

## 97th BNL Lecture On 30-MeV Tandem

Dr. Harvey Wegner, Manager of the Tandem Van de Graaff Facility at Brookhaven, will deliver the 97th BNL Lecture on Wednesday, December 9, at 8 p.m. in Berkner Hall.

Dr. Wegner, always an interesting and dynamic speaker, will lecture on the subject dearest to his heart: The New 30-MeV, 3 Stage Tandem Facility.

When Harvey Wegner first joined the Lab in 1953, he worked on the 18" and the 60" cyclotrons. From 1956 to 1962, he left Brookhaven to become a member of the Physics Division of Los Alamos as a member of the cyclotron group. After rejoining the Brookhaven staff in 1962, he became project manager for the Tandem Van de Graaff Project.

Dr. Wegner, his wife, and their three children reside in Bellport.

A buffet supper will be served at the Brookhaven Center before the lecture starting at 6 p.m. Reservations should be made in advance by calling Ext. 2283 before 5 p.m. Refreshments will be available in the lobby of Berkner Hall immediately after the conclusion of the lecture.

## Coming Attractions

12/9 Brookhaven Lecture - "The New 30 MeV, 3 Stage Tandem Facility" by Dr. Harvey Wegner  
Berkner Hall - 8 p.m.

magnificent facility with a fixed amount of funds.

After a humorous description of the way a tandem machine works, Thompson concluded his remarks by saying, "Bon Voyage to the Emperor on its trip to the unknown in research. Let us dedicate ourselves today to enlightening answers."

Harvey Wegner, Project Manager, gave a short historical presentation on the Tandem, illustrated with slides of some of the more important phases in the construction.

Denys Wilkinson, who had spent some time at BNL during Cosmotron days, included in his speech a humorous anecdote about a startup of that machine which ended disastrously for him. The rest of Wilkinson's speech was devoted to technical aspects of research at the Tandem.

Dr. Bromley, the last speaker, pointed out new frontiers that could be explored with the new facility.

At the conclusion of the formal ceremony at Berkner, the audience and guests toured the Tandem building and were treated to an inside look at the giant machines.

## Plausible Mechanism For Man's Evolution Duplicated In Lab

Two Brookhaven geneticists, working in a laboratory here, have made an important contribution to Biology research.

A plausible mechanism of how man has evolved via the production of complex protein molecules has been duplicated in laboratories at Brookhaven and at the University of California at Berkeley.

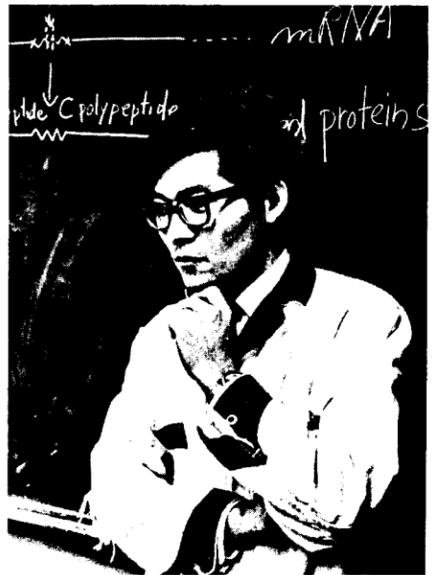
The mechanism is called gene fusion, which simply means that the normal signals to end making one protein and to begin making the next on messenger RNA have been erased by mutation, thus causing a single, large, bifunctional protein enzyme to be made instead of two, small, functionally distinct protein enzymes. It was the result of a mutation in each of two successive genes in the messenger RNA chain.

The findings were reported in the November 28 issue of *Nature* in a paper entitled "Enzyme Evolution: Generation of a Bifunctional Enzyme by Fusion of Adjacent Genes," authored by Dr. Joseph Yourho and Tadahiko Kohno of the Biology Department at Brookhaven and Dr. John R. Roth of the Department of Molecular Biology at the University of California, Berkeley Campus.

The fused genes were produced almost completely by accident at Brookhaven and Berkeley as part of a study on gene suppression, which involved bacteria that would grow weakly without an outside source of the amino acid, histidine. The scientists were using a "polar" mutant in the histidine operon of *Salmonella typhimurium*, which forms colonies that appear smooth under the microscope and which require an outside source of histidine to grow. Normal "non-polar" bacteria form wrinkled colonies and do not require histidine to grow. What Yourho and Kohno were looking for and isolated in Building 421 at Brookhaven was a rare strain that combined some of the properties of each, i.e., one that would form a colony that was smooth in appearance, was still polar, but which had the ability to manufacture its own histidine in low but sufficient quantities to grow without adding more from an outside source. This was attributed to a second mutation in yet another gene, termed a suppressor of the polar histidine mutation. From this smooth (polar) strain, Dr. Roth in Berkeley used a special technique to isolate some non-polar strains which produce normal wrinkled colonies.

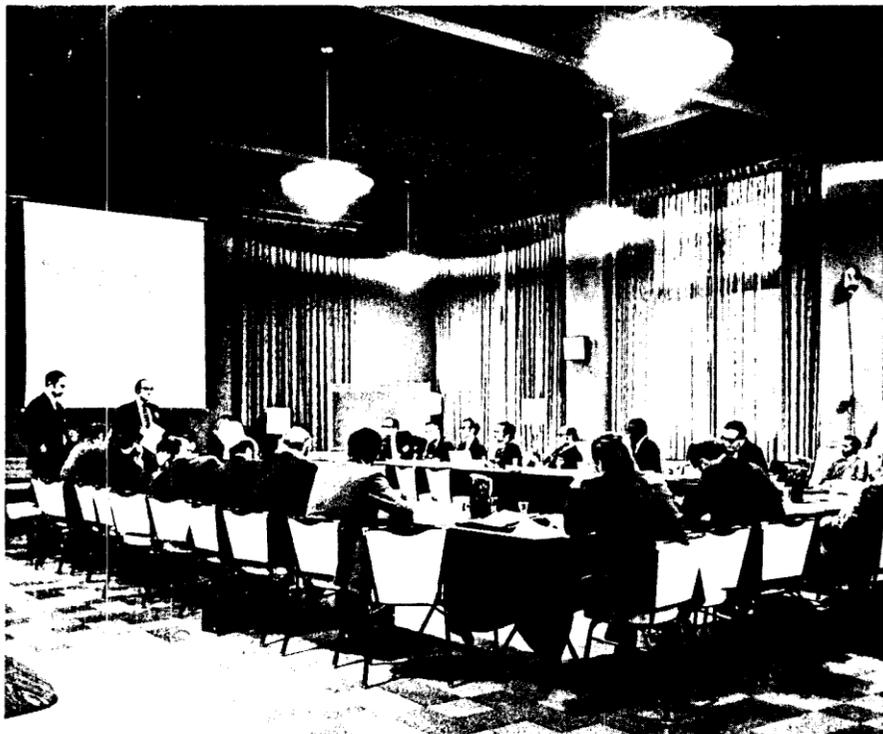
A normal DNA and messenger RNA chain contains many nucleotides, which are significant in that every group of three successive nucleotides represents a coded message to be read as a blueprint to pro-

—continued on page 3



Tadahiko Kohno, 25 year old Research Associate in the Biology Department, worked with Dr. Yourho in developing a bifunctional enzyme at BNL. Kohno started at the Lab in June, 1969, and hopes to go to Yale, Stanford or Berkeley when his appointment at BNL is finished in another 6 months. Kohno received his bachelor's degree in genetics from the Waseda University in Japan.

**Atmospheric Diagnosticians Meet**



A recent annual information meeting of participants in the Atmospheric Diagnostics Program was held at Brookhaven, to discuss current status of the program and future plans.

The following groups were represented at the meeting which was held in the North Room of the Brookhaven Center: Division of Isotopes Development of the AEC and the National Air Pollution Control Administration of HEW, who jointly fund the program; the utilities actively cooperating by making their facilities available for field operations, Consolidated Edison of N.Y. for its Arthur Kill Station, Long Island Lighting Company for its Northport Station, Pennsylvania Electric Company for its Keystone Station, and United Illuminating Company for its English Station, New Haven.

Also, the Edison Electric Institute; Electric Power Council on the Environment; Bituminous Coal Research, Inc.; American Petroleum Institute; New York City Department of Air Resources; New Haven Bureau of Environmental Health; Nassau County Bureau of Air Pollution Control; Suffolk County Division of Environmental Health Services; Battelle Memorial Institute.

Representing Brookhaven Lab were: Dr. Warren E. Winsche, Chairman, Department of Applied Science; Bernard Manowitz, Head, Radiation Division; Maynard E. Smith, Leader, Meteorology Group; and Dr. Leonard Newman, Leader, Analytical Chemistry Group. From the Atmospheric Diagnostics Program were: Walter D. Tucker, Project Engineer; Lester Cohen, Meteorologist; Joseph Forrest, Analytical Chemist; and Dr. Russell Dietz, Chemical Engineer.

**Anticipation And Realization**



At 1:43 a.m. Wednesday, November 18, technicians, scientists and interested spectators gathered around the control panel #9 (above) at the 200 MeV linac. A beam was achieved in tank #9. A minute later (below) tension in the crowd was broken when the level of 200 MeV was reached. Years of planning and months of tuning paid off for all of the 200 MeV linac crew.



**Here and There**

Claire Lamberti

Paul Craig (Physics) testified before the City Council of Buffalo, N.Y. on Atmospheric Lead Pollution, on November 25.

Arnold M. Peskin (AMD) gave a paper entitled "Associative capabilities for mass storage through array organization" at the Fall Joint Computer Conference in Houston, Texas on November 19.

Herbert Susskind (DAS) presented a paper entitled "Reactor Operating and Maintenance Costs" at the Winter Meeting of the American Nuclear Society in Washington, D.C., November 15-19.

Garman Harbottle (Chemistry) spent one month at the Central Research Institute of Atomic Physics in Bucharest on a scientific exchange visit sponsored by the National Academy of Sciences under the terms of a treaty between the U.S. and the government of Romania.

Joel S. O'Connor (Biology) recently presented a seminar on "The Benthos of Moriches Bay, Long Island" at the Marine Biological Laboratory in Woods Hole, Massachusetts.

Kurt Fuchel and Arnold Peskin (both AMD) were speakers at Computer Science Department colloquia at SUNY at Stony Brook on November 3 and November 10, respectively.

Myron C. Ledbetter (Biology) recently attended the presentation of the Louisa Gross Horwitz Awards to Dr. G. Palade (Rockefeller University), K. Porter (University of Colorado) and A. Claude (Belgium) at Columbia University, New York City.

Robert F. Smith (Photography) recently returned from a series of lectures in Germany and Switzerland; one was at the University of Tuebingen, Germany, and the other at the University of Bern, Medical School, Switzerland. The subject of the lectures was optical staining methods in microscopy and photomicrography and the study of living cells and tissues.

**Selected Reading**

- Bull. At. Sci. 26, November 1970
- Hierarchical growth. J. Platt. 2-4
- An international challenge. G.T. Seaborg. 5-7
- Physics and politics in Latin America - a personal experience. L.M. Falicov. 8-10
- Chandrasekhar - on scientists and society. H. Chandra. 11-14
- Segrè and Heisenberg: Genesis of the atomic age. (Excerpts from two new books) 32-9
- Science 170, November 6, 1970
- Science policy: Daddario panel urges new study, changes in OST. L.J. Carter. 612-14
- Science 170, November 13, 1970
- Environmental protection in the City of New York. M. Eisenbud. 706-12

**Vacation Credit Reminder**

The maximum number of vacation days that may be carried over from one calendar year to another is 36.

For weekly and hourly employees, any days in excess of 36 must be taken by Sunday, January 3, 1971. Monthly exempt and nonexempt employees must take any vacation days in excess of 36 by January 25, 1971. Any accrual for January, 1971 will not be affected by the 36-day carry-over.

**Opera Tickets Still Available**

The Recreation Office has the following Metropolitan Opera tickets on sale:

December 28	Andrea Chenier
January 5	Andrea Chenier
March 4	Werther
March 9	Werther
March 18	Werther
March 22	Werther
April 12	Werther

**Arrivals & Departures**

Arrivals	
None	
Departures	
Karen B. Moyer	Medical
Branko Soucek	I & HP

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**Letters To The Editor**

Dear Sir:  
 I wish to express my thanks to Charles Geonie and the membership of Local 2230 of IBEW as well as all my friends at BNL. Their thoughtfulness and kindness during my recent illness are deeply appreciated.  
 Danny Zelem

Dear Sir:  
 November was indeed a great month for the AGS Conversion Project. Not only did the new linac reach 200 MeV (as so well reported in your November 19 issue) but also the new Siemens Main Target Power Supply excited the AGS magnet to 6600 Amps (6150 A corresponds to 33 BeV) with an 0.8 sec flat top. The complete cycle time was less than 2 seconds.  
 However, I must call attention to one omission in your November 19 article about the linac. You failed to note that during the late hours of November 17 and early hours of November 18, Ken Green was very much in evidence. Ken called from home early in the morning to see what the progress was. It evidently took only five minutes after the call before he succumbed to the excitement and proceeded to join us.  
 —George Wheeler

Editor's Note: Even editors get "buck fever" when covering such exciting events as the startup of a huge accelerator. While the linac was being tuned to the 200 MeV level, at one point Ken Green remarked to the editor of the Bulletin, "If you take 40 men and have them twist 40 dials all at once, maybe that is what is needed to make the machine work." Finally, at 1:35 a.m., Ken Green looked at the action around the #9 control panel and said, "It will either work in the next 15 minutes, or we can all go home." At 1:44 a.m., 9 minutes later, Ken's prediction came true, and he and Mrs. Green joined in the celebration of the happy event.  
 —Carl Thien

Dear Sir:  
 How quickly the flurry about conservation and pollution seems to have disappeared!

We would like to propose a plan for the recycling and conservation suggested by Mary Hall. We feel sure that there is a real concern on the part of large numbers of laboratory employees who would like to participate in a method for recycling waste products starting with paper and aluminum cans.

So we propose a central depot at BNL to which clean paper goods and aluminum cans could be brought for shipment to some business which recycles such products. If we can ship by truck- or trainload, surely it would be profitable for a dealer to buy from us.

We have heard that ALCO is offering .5¢ a can for scrap aluminum but that some villages which wanted to start collection gave it up because it didn't seem "profitable" enough. If everyone at the Lab took the trouble to bundle up newspapers and bag their scrap cans, wouldn't there be volume enough to make it worthwhile, not necessarily from a financial standpoint, but from the purely practical ecological view of not using up new resources as fast? Somewhere it was said that one ton of scrap paper saves 17 trees, living trees, which oxygenate the air we breathe; one ton of scrap aluminum means that much less ore which has to be mined and processed (with its attendant pollution).

We would like to ask the following question: Is there an empty building or warehouse on site to which employees could bring recycleable wastes for storage until we have a large enough quantity for someone to buy?

We would be serving our country and the world by:

1. Re-using material which is now thrown away.
2. Conserving new material for future use.
3. Reducing the amount of trash for disposal.
4. Keeping possible litter off streets and highways.
5. Showing that we care and are willing to suffer some inconvenience in order to get some benefit for all.
6. Demonstrating that a small beginning may lead to larger efforts.

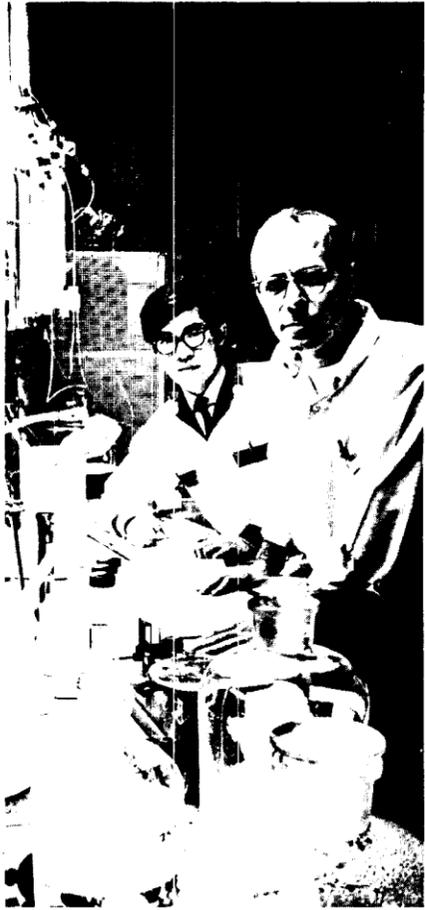
In order to insure our own survival and that of future generations it is becoming clear that we must live within the world's ecosystem and limit use of earth's resources. Brookhaven could set an example in line with Dr. Weinberg's talk on National Environmental Laboratories. What better place to start than at home?  
 Mary Hall Claire Hull

## Plausible Mechanism For Man's Evolution

(Cont'd from page 1)

duce enzyme products of precise amino acid sequence.

Periodically in the messenger RNA chain there are successive groups of three that tell the cell to stop making one protein and start making the next. The polar mutation which could grow slowly without histidine was later found not to be carrying a suppressor mutation, but to be missing a single nucleotide at the end of one



Dr. Joseph Yourno (right) and Tadahiko Kohno in their laboratory in Building 421. The two geneticists first isolated a fused gene as part of a study to find bacteria that would grow without histidine.

gene. As a result the signals to stop making the protein controlled by this gene and to start making the protein controlled by the next gene were not read in the proper groups of three. The first gene, therefore, continued to be read while the next gene was starting to be read. This mutation is termed a "frameshift." It turned out that in the strain produced by Dr. Roth there was an additional frameshift in the form of an extra nucleotide just after the beginning of the next gene.

This created a situation where the coded messages were back in frame in the next gene to continue a normal reproduction process. The net result was that the border between the two genes was missing, being between the two successive mutations. The protein normally produced as an individual enzyme by the first gene never really stopped, and to this was automatically added the production of the enzyme normally produced by the next gene. This became clear when the joined enzyme was isolated and examined at Brookhaven National Laboratory.

Thus was created a single new enzyme whose composition and size exactly equalled the total of the two individual enzymes that would have been produced from two normal genes. These results suggest how evolution can occur at the most fundamental, molecular level. Many important complex proteins may have evolved in nature by just such a sort of gene fusion.

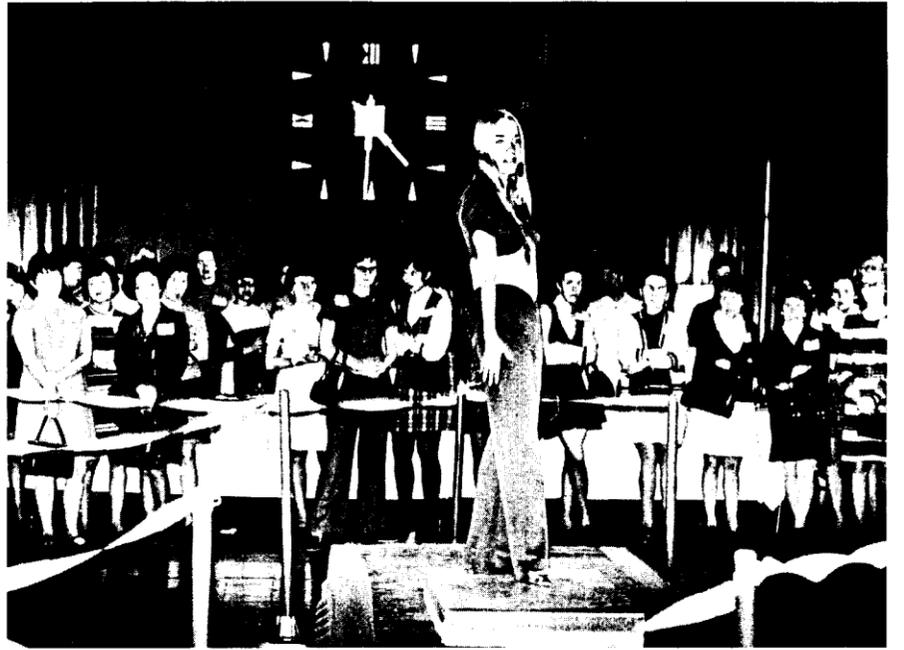
The bacterium used in this research was *Salmonella typhimurium*, which is not pathogenic to man. The double mutation occurred at the end of the histidine D gene and the start of the histidine C gene.

Dr. Joseph Yourno, who headed the research effort, is a geneticist with the Biology Department. He joined the Laboratory staff in 1965, after post-doctoral work at Johns Hopkins. Yourno, his wife, Pamela, and their two children live in St. James.

Tadahiko Kohno is a research associate who joined Dr. Yourno's staff in 1969 for a two year stay. In 1971, he plans to enter graduate school in pursuit of his Ph.D. Kohno, who is single, presently lives onsite.

Dr. John R. Roth is Assistant Professor of Genetics in the Department of Molecular Biology, University of California, Berkeley Campus.

## Tea, Sherry, and Fashions



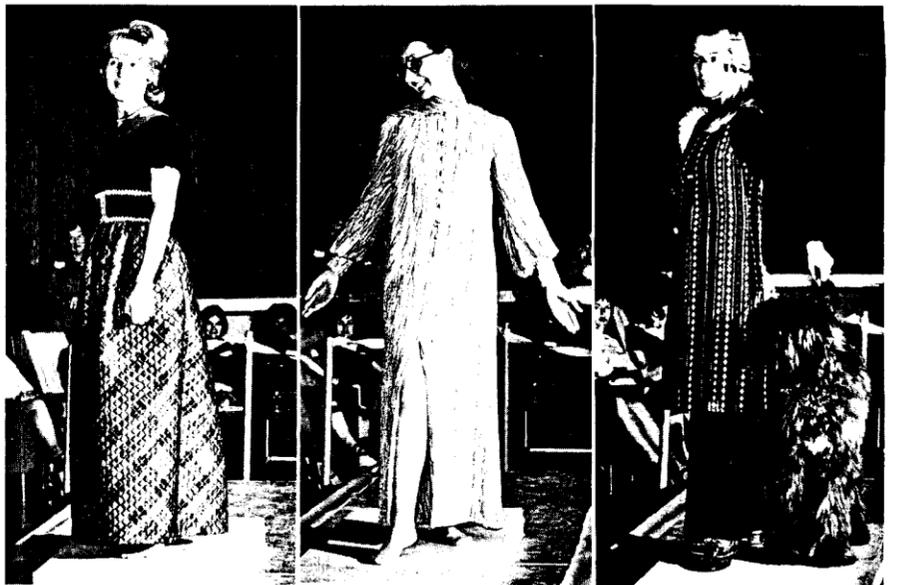
There seems to be no doubt about the proper length for women's skirts from this picture taken at the Hospitality Committee's Tea and Fashion show at the Brookhaven Center. Suzanne Mughabghab models a jump suit.



Lucy Kinne

Bunnie Elliot

Marta Kevey



Evonne Hammond

Rullie Suda

Suzanne Mughabghab

## Christmas Gift

Here's that unique gift you have been looking for to give to that special person.

The Glorious World of International Cookery, Volume II is now on sale at the Recreation, Film Service, Swimming Pool Offices, and the Recreation Building.

Volume II which is priced at \$2.10 (tax included) is a completely new book compiled by our Cooking Exchange from selected recipes demonstrated over the past three years.

Its 180 plus pages contain everything from Aebleskage on page 171 to Yule Cookies on page 164. It features offerings of good taste from Japan, England, Peru, Germany, France, Holland, India and many other countries too numerous to mention. Oh yes! the USA is included with a Holiday Salad as well as several other treats.

## Carolers Attention!



The Season is here! The first rehearsal of the BERA Unorganized Carol Singers will be held at Berkner Hall promptly at noon on December 8, 1970. New faces are welcome!

## BNL Greeting Cards

The Film Service Office, located in the Gymnasium, has now available for immediate purchase the 1970 edition of the BNL Seasons Greeting card. This year's card features a colorful photograph of a molecular model of a crystal.

Stop by and pick up a card for 25¢, or 50 for 18¢ each, or 100 for 15¢ each.

While you're there, pick up your holiday supply of film and flash equipment.

If you need help call Extension 7221.

## Cafeteria Menu

### Week Ending December 10, 1970

<b>Friday, December 4</b>	
Manhattan Clam Chowder	
Fish'n Chips w/Tartar Sauce	.75
Grilled Chopped Beefsteak w/Onions & 1 Veg.	.80
Shrimp Creole on Rice w/1 Veg.	.85
<b>Monday, December 7</b>	
Cream of Tomato Soup	
Round Roast of Beef w/Gravy & 1 Veg.	.80
Veal Pattie Parmigiana w/1 Veg.	.85
Frankfurters w/Baked Macaroni	.70
<b>Tuesday, December 8</b>	
Chicken Gumbo Creole Soup	
Salisbury Steak w/Saute Sauce & 1 Veg.	.80
Chicken Patties w/Cream Sauce & 1 Veg.	.80
Veal & Pepper a l'Italienne on Buttered Rice	.95
<b>Wednesday, December 9</b>	
Beef Vegetable Soup	
Roast Leg of Lamb w/Green Mint Jelly & 1 Veg.	.80
¼ Roast Chicken w/Stuffing, Cranberry Sauce & 1 Veg.	.80
Poached Filet of Sole w/Shrimp Sauce & 1 Veg.	.95
<b>Thursday, December 10</b>	
Minnestrone Soup	
Pot Roast of Beef w/Vegetable Brown Gravy & 1 Veg.	.80
Cider Basted Ham Steak w/Pineapple Rings & 1 Veg.	.85
Braised Chicken Legs w/Barbecued Sauce & 1 Veg.	.80

## Bowling News

Grace Fales

### Red League

It's getting to be a close battle between the Old Timers and the Alphas, with the Old Timers leading by one point. It seems that everybody went crazy, with 11 - 200 games. Here goes - S. Kiss 219, B. Brehm 214, J. Ferrante 213, H. Marshall 212, G. Schuette 212, G. Spiro 211, J. Ruscica 210, R. Adams 205, W. Reams 204, J. Berech 202, and P. Klotz 201. R. Nelson still holds high average though dropping to 187.

### Ping League

The Hopefuls widened their lead on first place by taking 7 points from the Fiscal Assets. The Medigals helped them along by taking 5 from the Pinsplitters. Highs for the night were Marge Stoeckel 167/469, Anne Kirkpatrick 180/478, Kay Hunt 162, Audrey Bangel 176, Marion Mayhew 156, Ellie Murgatroyd 183, and Jo Gazzola 164.

### Black and Blue League

No bowling due to holiday.

### Green League

No news this week.

## Bowling Extras

At a recent meeting of the Bowling Board it was voted to award a prize for the high gross game of all Leagues the week of 12/14. The entry fee for each interested bowler will be 25 cents, which will be collected by the League Representatives the week before. R. Larson will be in charge of the event. If it is successful, it is the Board's intention to hold this event on a semi-regular basis.

The Board has also decided to run a Mixed Tournament sometime during the month of February. Prior to setting this up, we would like to know how many people would be interested and if they have any suggestions. If enough interest is shown, entry blanks will be sent out shortly after the first of the year. Those interested should call either Marge Stoeckel, Ext. 7160, Grace Fales, Ext. 2164, or any member of the Bowling Board.

## Personnel Services

At the Recreation Office

Open Daily 9:00 a.m. to 1:00 p.m.

## The Inside Story At The Tandem



Dr. Maurice Goldhaber, BNL's Director, introduces guest speakers at Dedication ceremonies at Berkner Hall. Seated (from left to right) are: The Late Commissioner Theos Thompson, Harvey Wegner, D. Allen Bromley, and Denys Wilkinson. —Humphrey

## Stony Brook Events

### Friday, December 4

"The Heart is a Lonely Hunter," a film based on a novella by Carson McCullers, will be shown at 7 p.m., 9:30 p.m. and midnight in Room 100 of the Lecture Center, admission \$1.00.

Euripides' tragedy "The Bacchae" will be presented on Friday, Saturday and Sunday at 8 p.m. in the Gym Theatre, admission \$1.50.

### Saturday, December 5

Continuing a Childrens Film Festival five movies for young children - "My Own Yard to Play In," "The Owl and the Pussycat," "A Scrap of Paper and a Piece of String," "Stone Soup" and "Millions of Cats" - will be shown at 10 a.m. and 2 p.m. in the Union Theatre, admission 50¢.

### Sunday, December 6

The University Band and the Long Island Brass Philharmonia, will perform a concert featuring works by Purcell, Dukas and Dellojoio at 7 p.m. in the Gym.

### Monday, December 7

The New York Pro Musica will perform a concert at 8:30 p.m. in Room 100 of the Lecture Center, admission \$2.50. Tickets may be purchased in the Gym Ticket Office.

Joe Flaherty, a writer for the "Village Voice," will speak on "Managing Mailer and Breslin -

the Inside Story" at 8:30 p.m. in the Cardozo College Study Lounge.

As part of his "Science and Culture" lecture series Biology Professor Elof Carlson will discuss "Jensenism: IQ and Race," studying the controversial subject of intelligence measurement and its interpretations regarding race, at 7 p.m. in Room 100 of the Lecture Center.

### Wednesday, December 9

A Trio Concert will feature works by Mozart, Bloch, and Mendelssohn at 8:30 p.m. in Room 105 of the Lecture Center.

### Thursday, December 10

Mass Transit, a "street dance group" from New York City, will interpret poetry read by contributors to "The Harp," a campus poetry magazine, at 8 p.m. in the Kelly Cafeteria Lounge. A workshop following the readings will teach methods of constructing impromptu dance responses to poetry.

Herbert French, author and editorial research director for "Holiday" magazine, will speak on "Of Rivers and the Sea" at 8:30 p.m. in the Cardozo College Study Lounge.

Jean-Luc Godard's film "Alphaville," a futuristic spy thriller, will be shown at 8:30 p.m. in Room 100 of the Lecture Center. Tickets should be picked up in Room 294 of the Administration Building between 2 and 10 p.m. Monday through Wednesday.



Guests who attended the dedication of the Tandem Facility were allowed to inspect the inside of one of the giant containment tanks. Here, a woman is being helped up the steps to get a close look at the inner workings of the world's highest energy Van de Graaff installation.

## Classified Advertisements

### Positions Available

The Brookhaven Bulletin each week will list job openings which have come to our attention and may be of interest to lab employees. Each listing will be repeated (if still available) only once.

SENIOR TELEPHONE OPERATOR (1) Staff Services. Application deadline: December 9, 1970.

TELEPHONE OPERATOR (1) - Staff Services. Expected duration: 8 months. Application deadline: December 14, 1970.

JANITOR - Plant Engineering & Planning.

TECHNICIANS - National Accelerator Laboratory. Require five or more years of bubble chamber experience. Contact G.T. Mulholland, National Accelerator Laboratory, Batavia, Illinois 60510. (FTS) 8-312-231-6242.

For further information, please contact Employment Supervisor Ext. 2109 or 2513.

### Auto & Auto Supplies

69 VW - Dk blue, Empi equipt, radials, Konis, excel cond. \$1575. Mike, Ext. 2582/7169 after 5.

64 CORVETTE - \$1900. B.R. Gwathney, 589-8533.

14" PONTIAC WHEELS - Good cond, \$6/pr; 12 v Chevy gen, \$7.50; 12 v Corvaire gen, \$6. Bob, Ext. 2450, 289-0357.

63 FORD GALAXIE CONV 500 XL - Blue/white top, ps/pb, V8 cruiseomatic, am/fm, 4 new tires, new batt, muff & gen, good cond. \$450. Ext. 2524.

MOTORCYCLE - '66 Sears, 250 cc, dual exhausts, new batt, less 2000 mi orig, excel cond. \$225. Ken, Ext. 7668.

61 PLYMOUTH - V8, auto trans, ps, r/h, 2 dr hdtp, inspected, runs well. \$125. Dusek, Ext. 2411, 271-5551.

70 VW - Lt blue, excel cond, 19,500 mi, warranty. \$1650. Enrico, Ext. 2962.

69 VW BUG - Radio, undercoat, 23,000 mi. L. Decker, Ext. 2431.

46 DODGE - 4 dr sedan, heater, good rubber, no rot, good transportation. L. Decker, Ext. 2431.

69 VW BUG - Tan, radio. \$1250. L. Decker, Ext. 2431, 286-0128.

NEW CHROME AIR CLEANER - For 327 & 350 eng. \$5. George, Ext. 2154.

69 PLYMOUTH FURY III - 9600 mi, air cond, ps/pb, auto trans, many extras, perf mech cond. H. Lobe, Ext. 2314.

66 DODGE MONACO 9 PSGR WAGON - Ps/pb, elec rear window, roof rack, good cond. \$995. HR3-1523.

64 TR-4 - Good cond, tonneau cover, winterized, red/blk int, must sell. 288-6394.

64 BUICK LE SABRE - 4 dr hdtp, ps/pb, auto trans, tires new, body immac, excel running eng (reg gas), many extras, garaged, \$399. Zinna, Ext. 2556, 589-4243.

69 PONTIAC FIREBIRD - 12,000 mi, like new, perf cond, floor console shift, many extras, must sell. H. Lobe, Ext. 2314.

66 PONTIAC GTO - 4 spd trans, mags, new wide track tires, excel cond. 475-5392.

62 RAMBLER - 6 cyl, std trans, r/h. \$200. W. Tremel, Ext. 2457.

63 PONTIAC BONNEVILLE - 2 dr hdtp, r/h, auto trans, ps/pb, pwr windows, 2 new tires, excel cond, orig owner. Ron, Ext. 366, 751-8403 after 6.

2-14" RIMS - 5-hole, for GM cars. \$7. EM3-6940.

TOYOTA RIMS - 1 pr/\$8. Used snow tires as free bonus. J. Kirz, 751-1187 eves.

70 VW - Lt blue, 19,500 mi, warranty, excel cond. \$1650. Enrico, Ext. 2962.

SNOW TIRES - 2 w/studs, 6.45x14, 4-ply Goodyear Suburbanite, like new. \$30. 286-8945.

### Boats & Marine Supplies

SLOOP - 21' Mass Bay Indian CB, Marconi rigged, pretty, seaworthy, safe, outboard & trailer. \$1500. AT6-0798.

"PENGUIN" SAILING DINGHY - New, class #9085, ready for this fall frostbite sailing. C. Davis, Ext. 2420, HR3-1816.

16' GAFF RIG CB SLOOP - Shallow draft for G.S.B., Ratsey sails. Asking \$300. L. Decker, Ext. 2431.

### Miscellaneous

MOD BEDRM SET - Lt wood, dbl dresser, mirror, chest of drawers, 2 end tables, full bed. \$60. E. Bihn, LT9-2184.

TRICYCLE - W/2 deck step-to-plate, blue, \$8; maple crib, \$18. 744-9822.

CHILD'S SEWING MACHINE - Singer, w/AC adapter, used 3 times, excel cond, apron kit. \$10. 289-1883.

RABBITS, FRYERS, - \$1.50. John, 924-3528 after 5.

BANJO - Vega-Fairbanks, 4 string, very good cond, w/solid case. \$50. 585-8322.

WINCHESTER - Bull barrel cal. 30-06, like new. \$30. John, Ext. 560.

MOD LIMED OAK DESK & CHAIR - \$25; 2 mod table lamps, \$10. E. Bihn, LT9-2184.

BOYS' BUNK BEDS - Wagon wheel style, lt blue. \$50. Regina, 281-7116.

ENCYCLOPEDIA BRITANNICA - 13th ed, made from plates of classical 11th ed plus 2 later summary vols., best offer. L.K. Dahl, Ext. 2861.

ST BERNARD PUPPIES - AKC, 1 male, 1 female, will be ready for Christmas. \$250. 732-2204 after 5.

BALLET SLIPPERS - Size 2 1/2, never used, \$3; Girl Scout leader uniform, 2 pc, sm size 10, plus hat, \$10. HR3-9180.

MAGNUS ELEC ORGAN - Hardly used, w/song-books. \$100 new, sell for \$50. Ken, Ext. 7668.

DOORS - Varnished birch veneer-6'8", 1-30" swinging, 2-30" regular, 2-24" regular, excel cond, best offer. L.K. Dahl, Ext. 2861.

BB GUN - Daisy, good cond, \$5; weights, 120-lb Dan Lurie, w/barbells, good cond, \$10. Charlie, 589-4284 after 6.

4 PC COLONIAL SECTIONAL - Good for den or play rm, must sell. \$65. EM3-6427 after 5.

FREE - 3 cute puppies, avail Christmas week. J. Dispartii, Ext. 7415, 12-12:30; 281-8943 after 5:30.

MEN'S FIGURE ICE SKATES - Blk, size 9. \$15 value for \$9. Geo. Lilja, Ext. 657.

WOMEN'S FIGURE ICE SKATES - White, size 8. \$12 value for \$8. Geo. Lilja, Ext. 657.

HAMILTON BEACH ELEC MIXER - 10 spds, beaters, 2 pyrex bowls, never used, \$18; Northern facial sauna, never used, \$5. Ext. 2943.

10 GAL FISH TANK - Lights, plants, etc. \$6.69. Robert, Ext. 7198.

GARDEN TRACTOR - W/plow, Harrow, grass mower & riding sulky, eng needs repair. \$50. Ext. 614.

PICNIC TABLE - 10' long, new, w/seats. 878-2134 after 5.

MANGLE IRON - Excel cond. \$30. Ext. 597, 286-0436.

TYPEWRITERS - 1 portable, \$10; 1 office model, \$30. Ext. 597, 286-0436.

SCHWINN "CONTINENTAL" - 10 spd bike, like new cond. Cost \$100, asking \$70. Ext. 597, AT6-0436.

HO AURORA RACING SET - 26 cars, 2 controls, 2 pwr packs, 60 tracks, 1 banked curve. \$65. 724-6661.

HI-FI EQUIPMENT - In good order, tube type mono-aural, 12 w. RMS amplifier, \$10; fm tuner, \$10; stereo record player, \$15. Ron, Ext. 610.

WROUGHT IRON RM DIVIDERS - 8'x29". \$25/pr. Warkentien, Ext. 7541, 473-7546.

ELEC "DROP-IN" STOVE - Westinghouse, coppertone. \$100. R. Warkentien, Ext. 7541, 473-7546.

BOYS' HOCKEY SKATES - Size 3. Ext. 2524.

POOL TABLE - Antique 4x8 slate top comp rebuilt & refinished. \$495. Joe, Ext. 698.

OPERA TICKETS - La Traviatta at Met Opera, Fri 12/11, 2 seats in Family Circle, Row F, center. B. Baldwin, Ext. 7686/7683.

MISC HOUSEHOLD GOODS - Incl brand new storm & screen door. Bob, Ext. 2246, 475-3618 after 6.

17" SHARP TV - 18 mos old, very good. \$50. Enrico, Ext. 2962.

### 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 Rent

SKI CHALET - 4 mi from Mt. Snow, avail from Thanksgiving to May 1, sleeps 16, only 2 shares left. D. Dunn, Ext. 7187.

### Wanted

HI-RISER - Good cond. Carol, ED3-7637.

WANT A TV OR FM ANTENNA INSTALLED? - Call R. Perry, Ext. 2960, GR5-1636 after 5:30.

CLARINET - Suitable for ambitious beginner. Kinne, Ext. 7115.

PORTABLE DISHWASHER - Good working cond. A. Luther, Ext. 7285, 744-8928.

HELP! - Boy Scout Troop 287 Ridge needs donations of equipment, rope, canvas, uniforms, etc. George, Ext. 7204, 929-4818.

SKI RACK - For Corvette coupe. George, Ext. 2154/674.

SM ANIMAL CARRIER - For toy size dog, must fit under airliner seat, reasonable. A. Daly, Ext. 2532.

PLOW, DISC - Other attachments for sm 8 hp tractor, any cond, can repair & adapt. Ext. 597, 286-0436.

TREE REMOVAL - Will do tree removal & chain saw service, home painting, etc. Bob, 732-9517.

HOME - For white pigeon, presently living on site. R. Hulliger, Ext. 7556.

HELP - Our Sunday school urgently needs an upright piano, will gladly transport any offer. Please call, Ext. 2702.

### Carpools

JOIN OR FORM - Carpool in Patchogue area, formal or informal arrangement acceptable. M. Strongson, Ext. 2727.

### Classified Ad Policy

#### Deadline is 12 noon Friday for publication the following 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.

5. Ads not carried because of space restrictions will be held for publication in the next issue.

6. Ads are run only once and must be resubmitted if they are to be repeated.

7. Ads should be restricted to 20 words or less and typed or printed on the form provided, and must bear the employee's signature.

- |  |                                       |  |
|--|---------------------------------------|--|
| <input type="checkbox"/> For Sale: Auto & Auto Supplies    | <input type="checkbox"/> Wanted       | Check <input checked="" type="checkbox"/> the heading applying to your ad.<br>Print or type your ad in 20 words or less. |
| <input type="checkbox"/> For Sale: Boats & Marine Supplies | <input type="checkbox"/> Carpools     |  |
| <input type="checkbox"/> For Sale: Miscellaneous           | <input type="checkbox"/> Lost & Found |  |

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 112, 40 Brookhaven Avenue.

(Name & Phone No. To Call)

Employee's Signature ..... Life No. .... Ext. ....

Send to: Brookhaven Bulletin, 40 Brookhaven Avenue