

Danish House Opens Door To Cultural and Technological Exchange



Peter Horton

The Danish House is a 1,530-square-foot, L-shaped modular home built by Hosby Huse A/S. It is a standard model of typical Danish design and costs \$70,000 erected, excluding land and foundation. A team of Hosby builders built the house in three days and finished it in about three weeks. Eighty percent of the house was fabricated in the factory. Prefabrication permits the use of better materials and construction techniques, and assures greater energy efficiency.



U.S. DOE Assistant Secretary for Conservation & Renewable Energy Donna Fitzpatrick received the key to the Danish House from the Danish Minister of Housing Niels Bollmann. "The U.S. and Denmark share a common concern about energy," Fitzpatrick stated. "To reduce our demand for conventional energy, we are establishing this international housing village for the study of housing techniques." Added Bollmann, "The Danish House shows what a Danish family thinks is the best setting for family life. We hope that Danish style and form of living will be accepted by Americans, and that we can inspire each other to reach our common goal: the best housing for people."



Mort Rosen

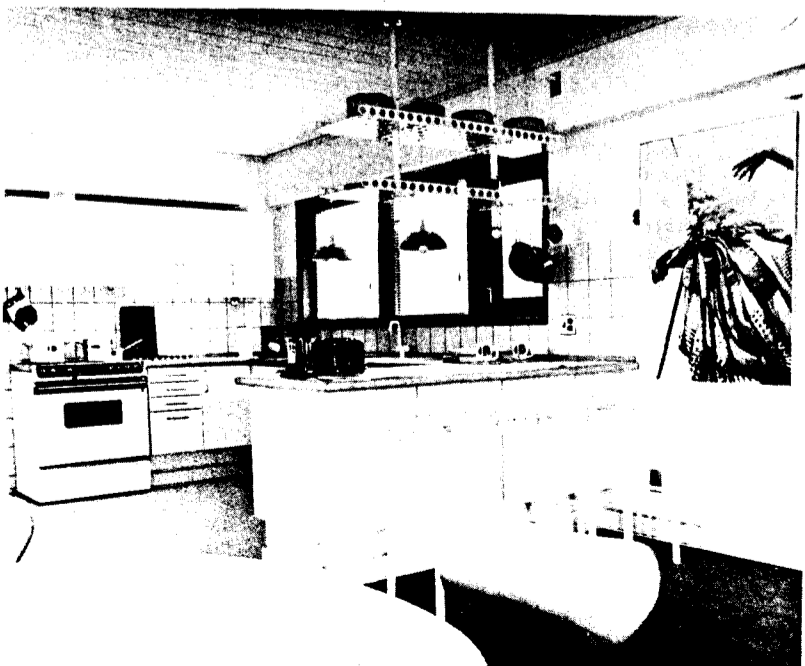
Mort Rosen

Laboratory Director Nicholas Samios (right) credited Assistant Director Jerome Hudis (center) with the idea for demonstration houses in an international village. In a memo dated September 24, 1980, Hudis wrote, "After viewing the Brookhaven House, I have the following suggestion: Why doesn't Brookhaven invite technologically sophisticated foreign countries each to build on our site an energy efficient house that incorporates each country's best idea, materials and hardware?" With Samios and Hudis is the New York Consul General of Denmark, Villads Villadsen.



Mort Rosen

Chairman of the Department of Applied Science Bernard Manowitz (not pictured) and DAS Associate Chairman Tom O'Hare (right) followed up on Hudis's idea for an international housing village, and four years later the first house, the Danish House, was built. Standing with O'Hare is Industrial Attache to the Danish Consulate Ebbe Johansen (center) and Carsten Schmidt, Commercial Counselor.



Roger Stoutenburgh

The kitchen, done in white formica with maple accents, opens to the dining area and has a small scullery towards the back.



Roger Stoutenburgh

Interior Designer Birgit Svane furnished the Danish House with the latest in Danish postmodern design, while incorporating classic pieces of Danish furniture designed in the 1950's and 60's. Coordinated textiles in complementary blues and yellows are used for the upholstery and curtains, and the bright colors contrast with the white walls and chrome furniture. The blue carpeting throughout the house ties the open layout and the decor together. The living room (above) is partitioned from the dining room and is accessible to the winter garden.

The Danish House will be open for public tours on Saturday, June 1, and Sunday, June 2, between 10 a.m. and 3 p.m.



Mort Rosen

Alvin W. Trivelpiece, Director of Energy Research at DOE has been meeting regularly, since May of 1982, with DOE's multiprogram laboratory directors and several Energy Research program-dedicated facility directors. The meetings have become an effective forum for exchange of information and discussion of issues, ranging from policy to administrative problems, involving Laboratory Directors and DOE Secretarial Officers. Discussion topics have ranged from publication policy to safeguards and security requirements; patent policy to general purpose facility needs. The most recent meeting was held at BNL on May 20 and the theme was interaction with the private sector. Those present were (from left) Col. Edward V. Badolato, Office of the Secretary; Carl Haussmann, Director at Large, Lawrence Livermore National Laboratory; B.G. Cook, Deputy Assistant Secretary for Security Affairs; David Shirley, Director, Lawrence Berkeley Laboratory; BNL Director Nicholas Samios; Herman Postma, Director, Oak Ridge National Laboratory; Danny Boggs, Deputy Secretary; Donna Fitzpatrick, Assistant Secretary for Conservation and Renewable Energy; William Wiley, Director, Pacific Northwest Laboratory; Alvin Trivelpiece; Harold Paxton, Vice President, U.S. Steel Corporation; A. G. Joseph, Director, Office of Field Operations Management, Office of Energy Research; Hilary Rauch, Manager, Chicago Operations Office; Alan Schriesheim, Director, Argonne National Laboratory; Robert Thorn, Deputy Director, Los Alamos National Laboratory; Harold Furth, Director, Princeton Plasma Physics Laboratory; and Robert Hansen, Director, Ames Laboratory.



Roger Stoutenburgh

The 2nd International Symposium on the Biology and Toxicology of Metals Using Nuclear Analytical Methods drew 95 participants to Brookhaven, May 20 through May 22. The symposium focussed on current research on trace elements that are biologically important either because they are essential to good health, or because they are toxic. Recent advances in analytical techniques now allow researchers to identify and quantify trace elements in the body with an accuracy that was not possible in the past. Symposium participants represented both the physical and life sciences and the emphasis was on multidisciplinary approaches to trace element research. Over 40 researchers from universities, hospitals and laboratories in the U. S. and abroad presented papers describing their recent work. Members of the Program Committee were (foreground) Albert Hanson, BNL; Jyrki Räsänen, University of Helsinki; B. Gonsior, Ruhr-Universität Bochum; and Reinier Beuwkes, Smith, Kline & French Laboratories; (back-center) Ananda Prasad, Wayne State University; and Klas Malmqvist, Lund Institute of Science and Technology.

Engineering Seminar Radio Telescope

Construction of the 140-foot Radio Telescope at the National Radio Astronomy Observatory in Green Bank, West Virginia, will be detailed in a film shown on Wednesday, May 29, at 3 p.m. in Room B, Berkner Hall. Max Small, who was project manager for the telescope's construction, will be on hand to narrate the film and comment on this engineering feat.

Small retired from Brookhaven in 1978. During his 31-year career at the Lab, he worked on a variety of projects, including construction of the Cosmotron and the AGS. He left the Lab in 1961 to oversee construction of the Radio Telescope and, on his return in 1965, became involved with special projects, principally a novel sewage treatment that returned fresh water to the ground water supply.

This event marks the third Engineering Seminar sponsored by the Physics Department. Everyone is welcome to attend.

Farmers' Market Opens Next Week

A sure sign of summer is the return of the Farmers' Market to the site. For the fourth year, local farmers will bring their produce to the parking lot on Brookhaven Avenue, opposite the cafeteria, every Wednesday. They will start on May 29 and end on October 30. The hours are from 11:30 a.m. to 1:30 p.m. It is expected that two farmers will start off the season and, as the harvest increases, up to six will truck in the summer bounty.

GRAF Values

May	60.81	June	61.71
July	60.35	August	66.91
September	66.75	October	66.70
November	65.69	December	67.04
January	72.01	February	72.38
March	72.35		

April \$71.97

BNL Lecture Cycles of Photosynthesis

Geoffrey Hind, senior biochemist in the Biology Department, travels abroad to train students from developing countries in techniques for the measurement of bioproductivity. Thus, he links the basic research done in his lab to the problems of food and fuel in other lands.

Hind's career, to date, has been dedicated to the investigation of photosynthesis, a process wherein green plants use the energy of intercepted sunlight to manufacture sugars from carbon dioxide and water. And, as he says, "this input of energy winds the mainspring of life and provides us with food, fuel and fiber."

In the next Brookhaven Lecture, "Photosynthetic Cycles and Plant Productivity," he will describe this remarkable process with reference to four distinct cyclic mechanisms. The lecture will take place at 4:30 p.m. on Wednesday, May 29, in Berkner Hall.

Photosynthesis takes place in specialized cellular subunits, the chloroplasts. Techniques are now available that permit isolation of intact chloroplasts and, thus, study of the complete conversion of CO₂ and water into sugar products outside of the plant. Associated with this photosynthetic conversion, and essential to it, are four distinct cyclic processes, two of them molecular and two electronic. As Hind will explain, cyclic processes have distinctive kinetic features and also impose special constraints on non-cyclic pathways with which they interact. The lecture will emphasize physiological aspects of the interplay between cyclic and non-cyclic pathways, and show how this can determine plant productivity. His own work concerning the identification of cycle components and study of cycle regulation will be outlined in the context of these broader considerations.

Geoffrey Hind obtained an M.A. in biochemistry from Downing College, Cambridge, England and his Ph.D. in



Geoffrey Hind

Roger Stoutenburgh

1961 from Queen Mary College, University of London. He joined the staff of the Biology Department in 1964 after three years postdoctoral work at Johns Hopkins University. In addition to his research work, Hind serves as deputy chairman of his department.

Since 1980 he has participated in the United Nations Environmental Program, which was set up to provide field training and lab techniques to help students understand the role of photosynthesis in the productivity of agricultural, forestry or aquatic systems. The U. N. teams adapt this training to meet the needs of the area and, for the most part, rely on local facilities. So far, Hind has spent three weeks each in Mexico, Yugoslavia, Kenya and Thailand and is scheduled to conduct another training course in China next month.

All those interested in getting together after the lecture are invited to go with the lecturer to a restaurant off site. If you want to be part of this group, call George Rabinowitz, Ext. 7637.

Speakers Bureau

Richard Lambrecht (Chem), N. Y. Society of Professional Inventors, Developments for Biomedical Purposes, March 27.

Rudy Alforque (Phys), ASME Student Section at SUNY Stony Brook, Careers in Mechanical Engineering at BNL, April 2.

E. Gail Williams (DO), Soroptimist International of Suffolk County, BNL Education Programs, April 15.

James Davenport (Phys), Gelinas Junior High School Science Fair, Science Fair Judge, April 23.

Donald Gardner (Accel), Career Day at Bellport Middle School, Careers in Engineering, April 26.

R.C. Anderson (Ret), Huntington Masonic Lodge, Nuclear Power, April 29.

Y.Y. Chu (Chem), Chemistry Club of Queens College, Frontiers of Modern Alchemy, April 29.

Martha Heine (Med), Career Day at Schem High School, Careers for Women in Science, April 30.

Norman Holden (DNE), J. S. Dowd Junior High School Science Club, Metrology, Controversy and Discovery in Physics, May 7.

Leon Green (DNE), Newfield High School Career Day, Laboratory Engineers and Scientists, May 16.

Michael Creutz (Phys); Raymond Davis (Ret); Martin Plotkin (Ret), Suffolk County Science Explorations, Careers at BNL in Physics, Chemistry, Science and Engineering, May 20. **Michael Creutz** (Phys), Nassau County Science Explorations, Elementary Particles, May 21.



NASA photo

Coming Up: Astronaut Joseph P. Allen will talk about "Satellite Retrieval," in a Special Lecture, Thursday, June 6, at 8 p.m. in Berkner Hall.

Equipment Demo

The Gilford Company will demonstrate their spectrofluorometer and UV-VIS spectrophotometer in the Large Conference Room of the Medical Department on Thursday, May 30, from 10:30 a.m. to 4 p.m.

DID YOU KNOW? that matter is being created out of energy in the National Synchrotron Light Source (NSLS)? At the NSLS, electrical energy is used to accelerate electrons to nearly the speed of light. In the process, some of the expended energy is converted to electron mass, so the electrons weigh more than 1000 times as much as usual — almost as much as protons.

BROOKHAVEN BULLETIN

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Arrivals & Departures

Arrivals

Vicki E. Feldman P&GA
John M. Killelea DNE
William E. Kilmartin S&ES
Donald S. Makowiecki Physics
DeMing Shu NSLS

Departures

This list includes all employees who have terminated from the Laboratory, including retirees:
Robert A. Feindt Medical
Thomas H. Snowden Pl. Eng.

WIS Meeting

Brookhaven Women in Science will hold a lunch meeting on Wednesday, June 5, at noon in Room A, Berkner Hall. The guest speaker is Therese Keelan, Consultant Nurse and Epidemiologist for the Suffolk County Health Department. The title of her talk is "Ticked Off on Long Island - Epidemiology of Suffolk County." A short business meeting will precede the program. The meeting is open to all interested individuals.

Diners Note

The Center Club will be closed Sunday, May 26, the day preceding Memorial Day, and will reopen on Monday, evening May 27. The cafeteria will be open from 9 a.m. until 2 p.m. on Saturday, Sunday and Monday, May 25, 26 and 27. The vended food service in Bldg. 912 will be in continuous operation.



-Roger Stoutenburg

On a Saturday in May, a hundred and fifty Harleys, riding two abreast, came roaring past the main gate onto the Laboratory site. They were members of the International Harley-Davidson Dresser Touring Association of the Northeast and had come for a tour of Brookhaven. A dresser is a fancy motorcycle heavily ornamented with trim and accessories, and the undisputed star dresser of the day was the motorcycle above, sporting 45,000 rhinestones. The tour was arranged for the group by the Public Relations Tour Program. The regular Lab tour program officially begins on Sunday, July 14 and continues through August 25, on Sundays only. If you visit the Lab on a tour Sunday, you won't likely see such motorcycles as the one above, but you will see the Lab's popular slide show "Quest," you'll get a bus tour of the site, and you'll visit the Exhibit Center.

BERA News

Tennis

Court Reservations

Two tennis court reservation systems will go into effect on Monday, June 10. The rules for court use are posted at courtside and in the BERA Sales Office, Berkner Hall.

Under the advance reservation system (A), three of the courts may be reserved for weekday play the day before play (thus Friday for Monday play). On-court scheduling (system B) offers the three remaining courts on a first come-first served basis to players who sign the blackboard at courtside at the time of play.

Reservation sheets for system A are held at the BERA Sales Office from noon to 1 p.m. on the day preceding play. Reservation sheets for the day's play will be posted at courtside in the morning, where players may reserve any courts that remain open. Only group 1 from the priority players list below may use system A. Only groups 1 and 2 may use system B.

1. Laboratory employees, including Visiting and Guest appointees.

2. Laboratory employees playing with family members or personal guests.

3. Immediate family members of Laboratory employees.

4. Personal guests of Laboratory employees.

Tennis Ladder

Men and women are invited to compete in the Tennis Ladder, which will begin on Monday, June 10. Sign-up sheets and ladder rules are now posted at the BERA Sales Office. Player rankings will be posted by Friday, June 7 and will be according to the order of sign-up. Players will be allowed one free challenge until June 28. Thereafter, the posted rules will apply. The ladder will be run this summer by tennis committee member George Oldham. Other members of the committee are Eena-mai Franz (chairman), Naresh Bhagat, John Elmore, Marilyn McKeown, Steve Shapiro, Niels Schumburg, Paul Valli and Gail Williams.

Annual Tournament

The tournament will get under way on Saturday, July 20 and players can sign up at the BERA Sales Office beginning June 21. Further details will be given in a later issue of the Bulletin.

Note: It is against Laboratory policy for anyone to use Lab facilities for profit. This includes use of the tennis courts for conducting paid, private tennis lessons.

Afro-American Club

An Installation Dinner Dance, sponsored by the Afro-American Culture Club, will be held Saturday, June 1, from 7 p.m. until 2 a.m. at the Brookhaven Center. The night will feature entertainment by the MJB Jazz Band, with Jean Sells vocalizing, and continuous music by Mr. T the D.J.

There will be an open bar and great food. The attire will be after-six and the mood will be festive.

The tickets are \$22 per person, in advance only. No tickets will be sold at the door.

Microcomputer Club

On Thursday, May 30, a demonstration by MTI Systems of the AT&T Personal Computer line will be given, along with a display of several low cost printers, one of which has color output. One AT&T model (6300) is IBM PC compatible and the 7300 is Unix based. Demonstration of a networking system (Intel OpenNet) and other add-in expansion boards (by Emulex) will also be given. The meeting is from noon-1 p.m. in Building 463 (Biology). Contact Jim Hainfeld, Ext. 3372, for more information.

Cricket Club

The Cricket Club will hold practice sessions the next two Friday evenings at 5:15 p.m., June 7 and 14, at the ball field. The first match of the season will be at home against Staten Island Cricket Club on Saturday, June 15, at 1 p.m.

Anyone interested in playing or learning is invited to come along. For further information, call Dave Cox, Ext. 3818, or John Millener, Ext. 3853.

Bowling

Purple League

Four of a Kind are the winners in this league. Congrats to Sharon Moore, Bob Jones, Mary Grace Meier, Ed Meier.

White League

The Gropers are the winners after a roll-off with the Purr Haps. Congrats to Sandy Asselta, Ken Asselta, Sharon Smith, Gene Hassell.

Red/Green League

High games were bowled by K. Riker 246/211/636 scratch, E. Sperry 240, T. Prach 216, T. Holmquist 212, R. Larsen 209, A. Natoli 201, C. Tomesch 200.

Pink League

B. Jones bowled a 199-98 pins over average, E. Kristiansen 194, K. Kissel 185, M. Reynolds 181.

Gym Summer Schedule Effective May 28

Workdays

11:00 a.m. - 2:00 p.m.

General Activities (employees only)

5:00 p.m. - 9:30 p.m.

General Activities

(employees/families/*guests)

Saturdays & Sundays

Closed

Lab Holidays

Closed

***Guest Ruling:** One guest per employee is permitted at any of the recreation facilities. Advance arrangements for additional guests (but not more than five at any one time) may be made at the Recreation Office.

Cafeteria Menu

Week Ending May 31

Monday, May 27

Snack bar service - 9:00 a.m.-2:00 p.m.

Tuesday, May 28

Lentil soup	(cup) .65
	(bowl) .85
Kielbasy & sauerkraut	2.10
Braised beef liver & onions w/1 veg.	2.10
Hot Deli: Pastrami	(bread) 2.10
	(roll) 2.30

Wednesday, May 29

Chicken rice soup	(cup) .65
	(bowl) .85
Swiss steak jardiniere & onions w/1 veg.	2.30
Ham & noodle au gratin & 1 veg.	2.15
Hot Deli: BBQ chicken breast	(bread) 2.15
	(roll) 2.35

Thursday, May 30

Beef noodle soup	(cup) .65
	(bowl) .85
Corned beef cabbage & parsley potatoes	2.35
Spanish macaroni & 1 veg.	2.15
Hot Deli: Top round of beef	(bread) 2.10
	(roll) 2.30

Special: Top your own baked potato served with chili & cheese sauce, plus a choice of two additional toppings 1.25

Friday, May 31

Seafood chowder	(cup) .65
	(bowl) .85
Seafood platter	2.35
Veal patty Parmesan & 1 veg.	2.25
or w/spaghetti	2.45
Hot Deli: Chicken patty club	(bread) 2.35
	(roll) 2.55

Classified Advertisements

Placement Notices

The Laboratory's placement policy is to select the best-qualified candidate for an available position, with consideration given to candidates in the following order of priority: (1) present employees within the department, with preference to those within the immediate work group; (2) present employees within the Laboratory as a whole; and (3) outside applicants. In keeping with the Affirmative Action plan, selection decisions are made without regard to age, race, color, religion, national origin, sex, handicap or veteran status.

Each week, the Personnel Office lists new personnel placement requisitions. The purpose of these listings is, first, to provide open placement information on all non-scientific staff positions; second, to give employees an opportunity to request consideration for themselves through Personnel; and, finally, for general recruiting purposes. Because of the priority preference policy stated above, each listing does not necessarily represent an opportunity for all candidates. As a guide to readers, the listings are grouped according to the anticipated area of recruitment.

Except when operational needs require otherwise, positions will remain open for one week following publication date.

For further information regarding a placement listing, contact the Employment Manager, Ext. 2882.

LABORATORY RECRUITMENT - Opportunities for Laboratory employees.

2252. TOOL AND INSTRUMENT MAKER - (4 openings) Central Shops Division.

2253. LAMP CLEANER - (Temporary 5/20/85 to 9/29/85). Plant Engineering Division.

OPEN RECRUITMENT - Opportunities for Laboratory employees and outside applicants.

2254. PROJECT ENGINEER - Requires BS degree in architecture or equivalent and extensive experience performing a broad range of architectural activities, including preparation of preliminary sketches, working drawings, specifications and estimates for commercial and industrial-type buildings. Must be knowledgeable in all types of construction. CAD experience helpful. Plant Engineering Division.

2255. LABORATORY TECHNICIAN - (Half time) Requires an AAS degree in microbiology or biochemistry or equivalent work experience. Duties include high pressure liquid chromatography and biochemical isolations. Knowledge of BASIC computer programming is necessary. Biology Department.

2256. TECHNICAL POSITION - Requires an AAS degree in electronics or equivalent with 10 years experience in prototype construction, testing and troubleshooting various types of electronic devices. This includes high current regulated, poly-phase and pulse-type power supplies. Must have thorough knowledge of both analog and digital circuitry. Alternating Gradient Synchrotron Department. (Reposting of Job #2236.)

Autos & Auto Supplies

81 DATSUN 200SX - 78k orig. mi., good mech. cond.; 71 Volkswagen Super Beetle, good mech. cond., few rust spots. Ext. 2253.

70 DODGE - slant 6, new radial tires, trans., starter, alternator, battery, runs well, 125k mi., \$650. Shiu, Ext. 4391, 4396 or 751-8224.

76 MUSTANG - a/c, p/b, good cond. Don, Ext. 5329 or 878-2215 evs.

70 MONTE CARLO - runs well, front end rebuilt in March, just tuned, \$900. Jacques, Ext. 4213 or 3009.

76 FORD GRANADA - p/s, p/b, a/c, excel. cond., \$1,200. 821-9265 after 6 p.m. weekdays.

Notice

An orientation meeting scheduled for film badge wearers on May 29, has been cancelled. Classes will resume on June 5 and will be held from 10:30 a.m. to noon.

