

BNL Celebrates Maurice Goldhaber's 90th Year

The secret of Maurice Goldhaber's activity at 90, he says, is very simple: "I have no time to age."

The age of BNL Distinguished Scientist Emeritus Maurice Goldhaber, however, was the reason that Brookhaven Lab took time to celebrate, at a symposium, reception, and dinner held in Goldhaber's honor at Berkner Hall on July 26.

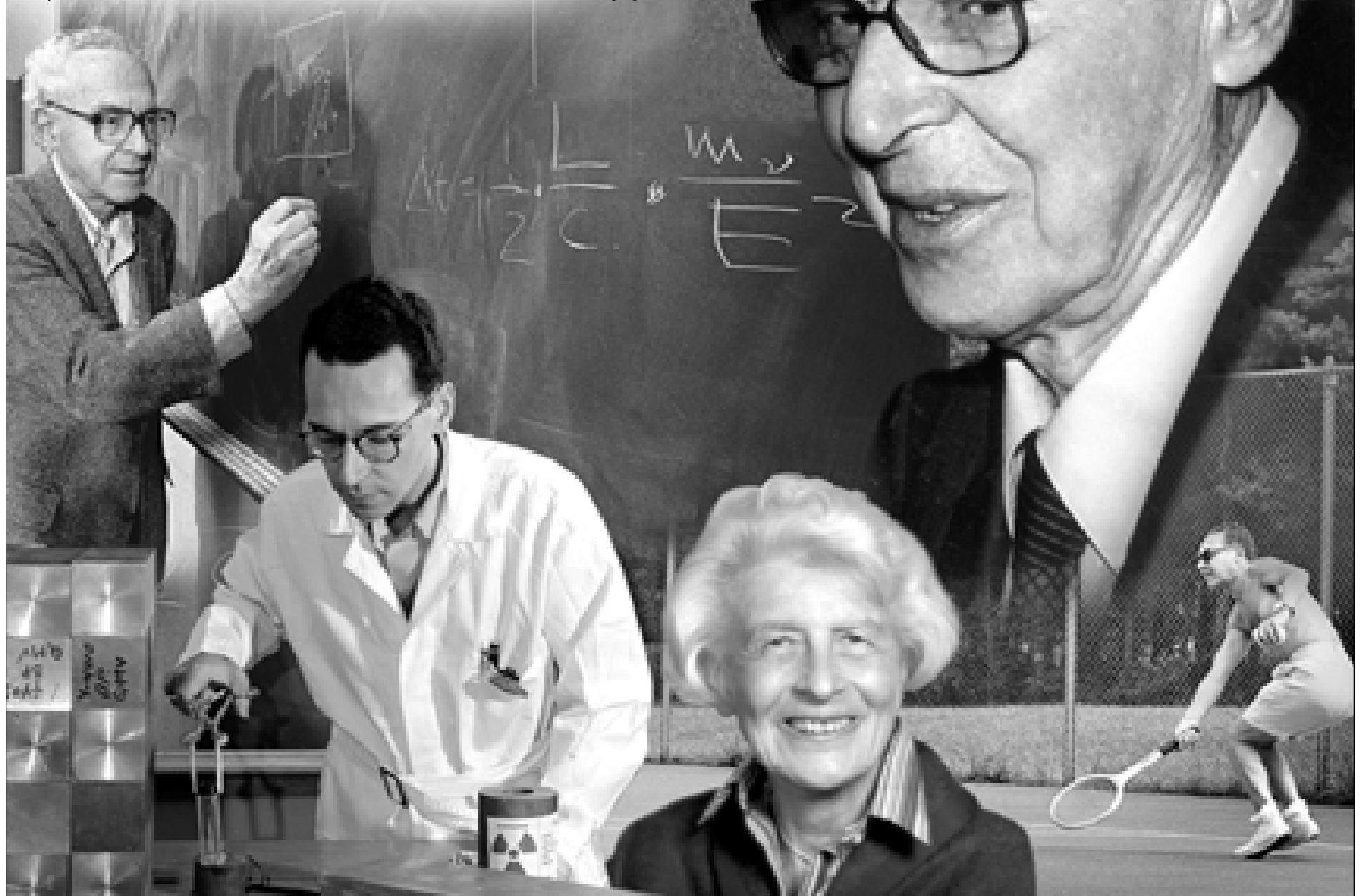
Goldhaber, who continues his research interests at BNL, joined BNL's Physics Department in 1950, became Physics Chair from 1960 to 1961, and served as the third Laboratory Director from 1961 to 1973. His numerous honors include the 1971 Tom W. Bonner Prize in Nuclear Physics, the 1982 J. Robert Oppenheimer Memorial Prize, the 1983 National Medal of Science, the 1991 Wolf Prize in Physics, and the 1999 Enrico Fermi Award.

Several hundred friends and members of the BNL community attended the afternoon symposium (see inside). At a reception afterward, refreshments and more reminiscences of Goldhaber's science, wit, and elegance flowed.

Approximately 160 of Goldhaber's family, friends, and colleagues then attended a dinner at which BNL Director John Marburger spoke of Goldhaber's timelessness, humor, productivity, and intellectual insights.

"What Brookhaven is today really bears Maurice's stamp," Marburger said.

(continued on page 2)



Save the Date: September 11

Marburger Celebration Party Set

All employees, facility users, and guests are invited to attend a party sponsored by BSA for Laboratory Director John Marburger, on Tuesday, September 11, from 4 to 7 p.m., at Berkner Hall. Refreshments and entertainment will be provided.

A Senate confirmation hearing will be scheduled later this fall for Marburger, who was selected by President George W. Bush for nomination as Assistant to the President for Science & Technology Policy. Marburger will continue to serve as Lab Director until the confirmation process is completed.

RHIC & AGS Users Meet Today

The Relativistic Heavy Ion Collider (RHIC) and Alternating Gradient Synchrotron (AGS) Annual Users' Meeting which started yesterday, Thursday, August 9, continues today in Berkner Hall.

Topics being covered are: RHIC experiments and theory, RHIC experiments in review, a poster session, and a Users' Group business meeting.

For more information, contact the RHIC & AGS Users' Center at userscenter@bnl.gov, Ext. 5975, or visit www.bnl.gov/userscenter/.

RHIC Update

PHOBOS Presents First Full-Energy Physics Results

Just two weeks after achieving full-energy collisions at the Relativistic Heavy Ion Collider (RHIC), the PHOBOS collaboration announced the first full-energy physics results to a standing-room-only crowd in the Physics Department's large seminar room.

The key finding, presented by Gunther Roland of the Massachusetts Institute of Technology (MIT), was a moderate increase in energy density in these full-energy collisions — which take place at a center of mass energy of 200 billion electron volts (GeV) per nucleon pair — compared with last year's collisions at lower energy (130 GeV per nucleon pair).

That result fits with predictions made by several theories of what should happen as energies increase. However, fur-

ther experimental tests and comparisons will be needed to see which theory provides the best fit with this and other RHIC findings. Those experiments and analyses will take place as the current run proceeds.

"It is exciting that we are creating these extremely high energy densities — the highest produced in the laboratory — and equal to those that existed in the early universe," said Wit Busza, spokesperson for the PHOBOS collaboration.

The energy density was estimated based on the number of particles produced in the collisions. The PHOBOS team used four different methods to measure the production of particles, and all four agreed with one another, lending validity and reliability to the result.

Also, measurements made on earlier collisions this year at 130 GeV correlated well with those at the same energy last year. This shows that the PHOBOS detector is working as expected, and makes it fair to compare the new numbers from 200 GeV collisions with the lower-energy events last year.

The analysis was made by looking at only the most central, head-on collisions — 639 events. "That may not sound like a lot, but it's ten times as many events as we used in our first publication last year," Roland said.

Busza, who is also from MIT, credited the entire Collider-Accelerator Department and BNL as a whole for the quick production of exciting physics, saying, "Without you all, none of this would have been possible."

— Karen McNulty Walsh

Calendar
of Laboratory Events

- The BERA Sales Office is located in Berkner Hall and is open weekdays from 9 a.m. to 3 p.m. For more information on BERA events, contact Andrea Dehler, Ext. 3347; or M. Kay Dellimore, Ext. 2873.
- Additional information for Hospitality Committee events can be found at the Lollipop House and the laundry in the apartment area.
- The Recreation Building (Rec. Bldg.) is located in the apartment area.
- Contact names are provided for most events for more information.
- Calendar events flagged with an asterisk (*) have an accompanying story in this week's Bulletin.

— EACH WEEK —

Mondays: Arts & Crafts
4-5 p.m. Rec. Bldg. \$5 per month covers materials. Marcia Leite, Ext. 1040.
— Hospitality event

Tuesdays: Welcome Coffee
10-11:30 a.m. Rec. Bldg. Newcomers meet friends. Mimi Luccio, 821-1435.
— Hospitality event

Tuesdays: Yoga Practice Sessions
12-1 p.m., Brookhaven Ctr. North Room. Free. Ila Campbell, Ext. 2206.

Wednesdays: BNL Ballroom, Latin & Swing Dance Club: beginner to advanced lessons

Register now for series 1 of the 10th anniversary 2001-02 season, which starts on Wednesday, September 12 in the North Ballroom, Brookhaven Center. Marsha Belford, belford@bnl.gov or Ext. 5053; Ron Ondrovic, ondrovic@bnl.gov or Ext. 4553; Sue Perino, perino@bnl.gov or Ext. 2483.

Wednesdays: Cooking Exchange
5-6 p.m. Rec. Bldg. \$1 per evening covers the cost of ingredients. Marcia Leite, Ext. 1040.

Wednesdays: On-Site Play Group Now Meets at Playground
9:30 a.m.-11:30 a.m. Playground in Apt. area, weather permitting. Parents meet while children play. Bring drinks, snacks. Free. Monique de la Beij, 399-7656. Lisa Fugleberg, 205-5128. — Hospitality event.

Wednesdays: Weight Watchers
noon-1 p.m., Brookhaven Center South Room, Mary Wood, Ext. 5923.

Mon., & Thurs.: Cardio Kickboxing
\$5 per class. Mon. & Thurs. from noon-1 p.m. in the Gym. Thursday evenings from 5:15 to 6:15 p.m. in the Brookhaven Ctr. Registration is required. Contact, Mary Wood, Ext. 5923, or wood2@bnl.gov.

— THIS WEEKEND —

Friday, 8/10

GLOBE Meeting
For more information about BNL's gay and lesbian club, and the location of this month's meeting, contact Mike Loftus, Ext. 2960, or Chris Gardner, Ext. 4537.

BERA Summer Bash
6 p.m., Rock Hill Country Club in Manorville. \$15 per person includes hot buffet from 7-8:30 p.m., DJ, and cash bar. Contact Andrea Dehler, Ext. 3347; John McCaffrey, Ext. 2075; Lou Nieves, Ext. 4897; or Laurie Pearl, Ext. 5520.

— NEXT WEEK —

All Week: Food Drive
Can you spare a can? Give to the BNL food drive in the bins in each building.

BNL Celebrates Goldhaber's



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Goldhaber's 90th (cont'd.)

Also at the dinner, Goldhaber's sons Michael and Alfred, and grandson David, paid tribute to their father and grandfather, respectively. Marburger read a letter from Peter Rosen, DOE Associate Director for High Energy & Nuclear Physics, who was unable to attend, and presented Goldhaber with a DOE plaque in honor of his many extraordinary contributions to science and to BNL.

In his thank-you speech, Goldhaber commented that being toasted in the afternoon and evening "makes for a warm feeling." In referring to Bill Marciano's afternoon talk on proton decay research, Goldhaber recalled one of his own "Goldhaberisms" on the proton: "May it live forever — but if it dies, let it die in our arms." More seriously, he gave this advice to the young: "Listen to your inner voice, and do not run with the crowd."

By listening to his inner voice, Goldhaber has produced research contributions in the fields of nuclear physics and fundamental particles that cover experiment, systematics, technique, and theory. Some of the research in which he has participated includes: the discovery of the nuclear photo-effect, the role of spin in nuclear reactions, making the first accurate measurement of the mass of the neutron, observing the helicity of the neutrino, and pursuing a wide variety of physics research that has supported the standard model.

Goldhaber is a member of the National Academy of Sciences and a fellow of the American Academy of Arts & Sciences, the American Association for the Advancement of Science, and the American Physical Society, of which he was president in 1982.

— Liz Seubert



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90th Year

(Right) From the Director's Office: (seated) Maurice Goldhaber, BNL Director 1961-1963; John Marburger, present BNL Director; (standing) Nicholas Samios, BNL Director 1982-1997, and Peter Bond, BNL Interim Director, 1997-1998.



(Below) Six former BNL Physics Department Chairmen: (front, from left) Norman Ramsey, Maurice Goldhaber, Joseph Weneser, (back, from left) Peter Bond, Nicholas Samios, and Ronald Rau.



(Photographs on these pages are by Roger Stoutenburgh.)



Maurice Goldhaber (center) is seen with symposium speakers: (from left) Martin Deutsch, Bill Marciano, Norman Ramsey, and Stuart Freedman.

The two sessions of the symposium held for Maurice Goldhaber were chaired respectively by Peter Bond, Special Assistant to the Director and former BNL Interim Director; and Martin Blume, Editor-in-Chief, American Physical Society, and former BNL Deputy Director. The afternoon's topics included: a welcome and presentation of the first Goldhaber fellowships (see below) by BNL Director John Marburger; "My Many Memories of Maurice," by Norman Ramsey, Harvard University and BNL's first Physics Department Chair; "Reminiscences of Time and Reversals," by Stuart Freedman, Lawrence Berkeley National Laboratory; "Maurice in My Past," by Martin Deutsch, Massachusetts Institute of Technology; and "Proton Decay," by Bill Marciano, BNL, Physics.

By arrangement, many attendees, including Goldhaber's brother Gerson, told "Maurice" stories, describing many facets of this respected, admired, and loved physicist, Laboratory Director, and Renaissance man.



BNL Creates Gertrude, Maurice Goldhaber Fellowships

At BNL's celebration of the 90th year of Distinguished BNL Scientist Maurice Goldhaber, the first Gertrude and Maurice Goldhaber Distinguished Postdoctoral Fellowships were awarded by Laboratory Director John Marburger to Young-June Kim, Elena Lymar, Bernd Surrow, and Hua Gen Yu.

"These fellowships were created to continue Brookhaven's tradition of attracting the best and brightest scientists. There can be no better way to commemorate the impact of Maurice and Gertrude Goldhaber on BNL," said Marburger.

Administered by Leonard Newman, Scientific Director, Laboratory Directed Research & Development, the fellowships are funded by Battelle and Stony Brook University.

The fellowships are open to scientists who are a maximum of three years past receiving their Ph.D. Candidates must have a strong desire for independent frontier research within the missions of BNL: the advancement of physics, chemistry, biology, and medical, energy, or environmental sciences; or the use of facilities that accelerate particles or heavy ions or produce synchrotron light.

The three-year fellowships have a starting salary of \$65,000 per annum. Each fellow will collaborate closely with a member of the BNL scientific staff and

may qualify for Lab scientific staff positions after completing the appointment.

The first four recipients of the fellowships are:

- **Young-June Kim**, a physicist, will do research in condensed-matter physics using the National Synchrotron Light Source. He is a post-doc at the Massachusetts Institute of Technology, with a Ph.D. from Harvard University. With John Hill, Physics Department, as his mentor, Kim will study the behavior of electrons and their correlations in complex materials such as high-temperature superconductors and colossal magnetoresistance compounds.

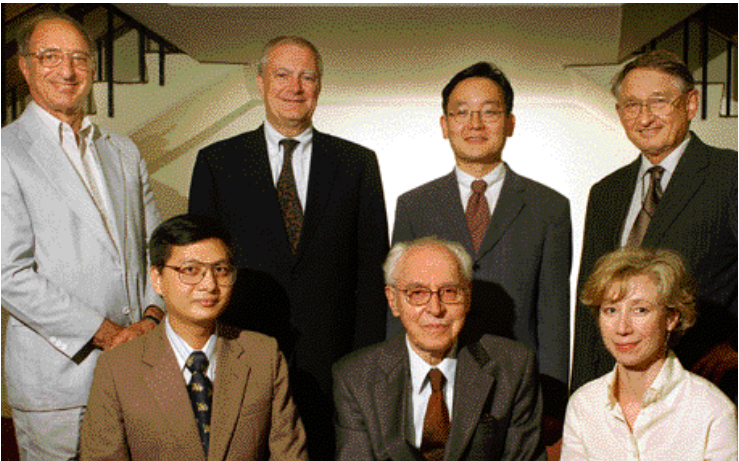
- **Elena Lymar**, a biologist, performs structural and functional analysis of human DNA. She is a postdoctoral associate at the Rockefeller University, with a Ph.D. from Washington State University. Lymar's research focuses on structural and functional analysis of the human DNA double-strand break repair mechanism. Her aim is to characterize the complex formed by DNA-end activated protein kinase, which plays a central role in DNA repair. Lymar's BNL mentor is Carl Anderson, Biology Department Chair.

- **Bernd Surrow**, a physicist, is interested in the study of proton measurements and structure. A

staff physicist at DESY, Hamburg, Surrow was a CERN, Switzerland, fellow and has a Ph.D. from the University of Hamburg, Germany. He has studied electron-proton scattering to map the proton's structure from the hard, high-resolution scattering region to the soft scattering region, using a device he designed and built. He also developed a detector to study photon structure in electron-positron collisions at LEP at CERN. Surrow will study the spin structure of the proton at the Relativistic Heavy Ion Collider using the STAR detector. Surrow's BNL mentor is Gerry Bunce, Physics Department.

- **Hua Gen Yu**, a chemist, studies quantum theory and dynamics. He was an associate professor with the Chinese Academy of Sciences, China. His Ph.D. is from Goteborg University, Sweden. Yu's interests include developing new techniques to extend the application of quantum scattering methods to complex reactions; exploring the dynamics of reactions involving multiple electronic states and the role of non-adiabatic processes in reaction or spectroscopy; determining the structure and energetics of reaction species and investigating chemical reactivity in quantum mechanical detail. His mentor is James Muckerman, Chemistry Department.

— Liz Seubert



Pictured are: (back, from left) Scientific Director, Laboratory Directed Research & Development Leonard Newman, BNL Director John Marburger, Goldhaber Fellow Young-June Kim, BNL Deputy Director for Science & Technology Peter Paul; (front from left) Goldhaber Fellow Hua Gen Yu, BNL Distinguished Scientist Maurice Goldhaber; and Goldhaber Fellow Elena Lymar. Not present: Goldhaber Fellow Bernd Surrow.

Calendar (continued)

Tuesday, 8/14

Verizon Wireless Demo

From 11 a.m. to 2 p.m. a representative will be in Berkner Hall presenting BNLers with special rates on wireless service.

Wednesday, 8/15

Voicestream Wireless Demo

10 a.m.-2:30 p.m., Berkner Hall. A representative will present BNLers with special rates on Voicestream wireless network. Richard Goll, (516) 343-5900.

Divorced & Separated Support Group

noon-1 p.m., Berkner Hall, Room D. Mary Campbell, Ext. 4776, maryc@bnl.gov.

Thursday, 8/16

Brookhaven Advocacy Council Meeting

Open Session, 12:30-1 p.m., Berkner Hall, Room C. Nancy Warren, Ext. 7548.

BERA Bridge Club

7 p.m., Berkner Hall cafeteria Morris Strongson, Ext. 4192, mms@bnl.gov.

Friday - Sunday, 8/17-19

Balloon & Music Festival

BERA offers discounted tickets for the Waldbaum's Balloon & Music Festival at Calabro Airport. Tickets available in the BERA Sales Office, weekdays, from 9 a.m. to 3 p.m. Andrea Dehler, Ext. 3347, or M. Kay Dellimore, Ext. 2873.

Saturday, 8/18

Foxwoods Casino Trip

Bus leaves Brookhaven Center at 8:15 a.m. and returns at approximately 8:15 p.m. \$39 per person includes bus, SeaJet Ferry, \$10 food voucher, two free Keno plays, and a \$10 match table play. Pre-paid reservations can be made at the BERA Sales Office, weekdays, 9 a.m.-3 p.m.

— WEEK OF 8/20 —

Wednesday, 8/22

Apheresis Blood Drive

Brookhaven Center. BNL volunteers from the previous apheresis drive are scheduled to donate platelets. Sue Foster, Ext. 2888, or foster2@bnl.gov.

Noon Recital

The Daedalus String Quartet will perform at noon in Berkner Hall. Noon recitals are free and open to the public. Bring your lunch and come and go as you please. For more information, see www.music.bnl.gov.

— WEEK OF 8/27 —

Monday, 8/27

IBEW Meeting

Note: This calendar is updated continuously and will appear in the Bulletin whenever space permits. Submissions must be received by the preceding Friday at noon to appear in the following week's Bulletin. Please enter the information for each event in the order listed above (date, event name, description, and cost) and send it to bulletin@bnl.gov. Write "Bulletin Calendar" in the subject line.

Retirement Counseling

A TIAA-CREF representative will visit BNL on Monday and Tuesday, September 10 & 11, to answer employees' questions regarding the TIAA-CREF retirement plan in one-on-one sessions. You might ask about:

- TIAA and CREF differences
- allocating funds between TIAA and CREF
- options, flexibilities for existing dollars with TIAA-CREF
- retirement options

To arrange a 45-minute appointment call Duane Walden, (800) 842-2733, Ext. 7289 (not the on-site Ext. 7289).

Precertify Hospital Stays

All participants in the CIGNA PPO medical plan are reminded to obtain hospital precertification from CIGNA. Precertification is mandatory for a one-or-more-night's stay in the hospital, but not for ambulatory surgery procedures for which patients are admitted to and released from the hospital the same day. If you are retired and covered by Medicare, you *do not* have to precertify.

If an employee, retiree, or family member fails to notify CIGNA regarding precertification or emergency hospital admission, medical insurance benefits will be reduced to cover 50 percent of the amounts otherwise payable, with a maximum of \$500.

Expectant mothers *must* call CIGNA before the end of their *first* trimester to precertify their maternity-hospital admission. They or a family member *must* also call within 24 hours following admission by the hospital for the delivery.

For hospital preadmission certification, call CIGNA at (800) 982-8958 before hospital admission or within 48 hours of an emergency admission. The phone number is on the back of the CIGNA identification card. Employees and retirees should advise their families of the precertification requirement, so, in an emergency, they will make the required phone call to CIGNA.

SCCC On-Site Business Course

A informational and preregistration meeting on fall courses at Suffolk County Community College (SCCC) will be held on Wednesday, August 15, at 5:15 p.m. in the Human Resources training room, Bldg. 459. Interested employees are invited.

For the fall 2001 semester, SCCC's BA25 - Business Communications course for 3 credit hours will be offered on site. It will explore principles of business communication relating to contemporary business organization. The instructor may excuse the prerequisite SCCC EG11 English course.

BNL offers employees tuition advances or reimbursements at a rate of 75 percent for undergraduate courses. For more information, contact Marilyn Pandorf, Ext. 5251, pandorf@bnl.gov, or Starr Munson, Ext. 7631, or munson@bnl.gov.

AMERICAN PHYSICAL SOCIETY HEAD OF MEDIA RELATIONS - The American Physical Society seeks a media relations professional to promote physics in the popular media. Based at APS Headquarters in College Park, MD this person will develop and coordinate all media relations for APS. Responsibilities include working as part of a team that identifies physics news stories, locates press contacts in the physics community, and pitches the stories to the national media. Opportunities to travel exist. Must have a bachelor's degree in science, and preferably additional scientific work experience (physics a plus). Considerable experience interacting with the media is necessary. Excellent oral and written communication skills are required. Competitive starting salary and outstanding benefits package offered. To apply, send cover letter including salary requirement, resume, and contact information for three professional references to: Alan Chodos, APS Associate Executive Officer, by e-mail to chodos@aps.org. or to 1 Physics Ellipse, College Park, MD 20740.

Classified Advertisements

Placement Notices

The Lab's placement policy is to select the best-qualified candidate for an available position. Candidates are considered in the following order: (1) present employees within the department/division and/or appropriate bargaining unit, with preference for those within the immediate work group; (2) present employees within the Laboratory; and (3) outside applicants. In keeping with the Affirmative Action Plan, selections are made without regard to age, race, color, religion, national origin, sex, disability or veteran status. Each week, the Human Resources Division lists new placement notices, first, so employees may request consideration for themselves, and, second, for open recruitment. Because of the priority policy stated above, each listing does not necessarily represent an opportunity for all people. Except when operational needs require otherwise, positions will be open for one week after publication. For more information, contact the Employment Manager, Ext. 2882; call the JOBLINE, Ext. 7744 (344-7744), for a list of all job openings; use a TDD system to access job information by calling (631) 344-6018; or access current job openings on the World Wide Web at www.bnl.gov/JOBS/jobs.html.

OPEN RECRUITMENT - Opportunities for Laboratory employees and outside candidates.

MK2217. POSTDOCTORAL RESEARCH ASSOCIATES (2 positions) - Requires a Ph.D. in chemistry, physics, materials science or chemical engineering and extensive experience in UHV surface science, photoelectron or IR spectroscopy of surfaces. Will perform experimental studies of surface intermediates on model catalysts using synchrotron based photoelectron, x-ray absorption and IR spectroscopies. Under the direction of J. Hrbek. Chemistry Department.

NS7235. PUBLIC AFFAIRS REPRESENTATIVE (A-4, term appointment) - Requires a bachelor's degree in an appropriate field, a science writing background, excellent teamwork and interpersonal skills, the ability to meet deadlines, manage simultaneous tasks and keep skills current. Experience using computers for composition and layout of editorial material is also required. Responsibilities include completing complex science writing and general assignment writing projects, handling calls from the press, conducting research based on press requests and supplying requested information. Will also perform editorial duties such as editing, rewriting as required. Community Involvement, Government & Public Affairs.

NS 8885 CUSTOMER SUPPORT ADMINISTRATOR (I-3, term appointment, reposting) - Requires technical training or experience and a minimum of 1-2 years experience supporting hardware and/or software. Knowledge of standard networking/computing hardware and operating systems, and the ability to troubleshoot problems independently and proactively. Will test and implement software modules, provide technical on-line computing assistance to users, ensure that critical files systems are backed-up, and implement software/hardware installations and upgrades. Under general supervision, will be responsible for the administration, maintenance, and real-time support of computer systems for the STAR Detector. Physics Department.

DD7533. REGISTERED NURSE (A-3) - Responsibilities include routine nursing care, assisting with case management for Worker's Compensation cases, first aid, drug and alcohol testing, travel medicine, health education, immunizations and assisting with physical examinations. Experience in occupational medicine preferred; New York State Registered Nurse License required. Occupational Medicine Clinic.

Summer Sunday Tours Continue Through August 26

This Sunday, Visit Brookhaven's

National Synchrotron Light Source

NSLS

This Sunday, August 12, Summer Sunday visitors to BNL can take a tour of the National Synchrotron Light Source, where more than 2,200 visiting scientists from 350 institutions worldwide come annually to perform experiments. Visitors will see how infrared, ultraviolet, and x-ray synchrotron light produced in the NSLS is used for scientific research by visitors and BNL staff in biology, chemistry, medicine, physics, and many other fields, including criminal investigations.

In addition, visitors may take guided bus tours of the Lab site that will run continuously

throughout the day; participate in the Whiz Bang Science Show, presented four times between 10 a.m. and 3 p.m. in Berkner Hall; and view the Camp Upton Historical Collection, which displays the history of the BNL site during its pre-Lab days as a U.S. Army camp in World Wars I and II.

Organized by BNL's Museum Programs of the Community Relations Office, BNL's Summer Sunday tours begin at 10 a.m. and visitors must arrive before 3 p.m. The tours are free, open to the public, and no reservations are needed.