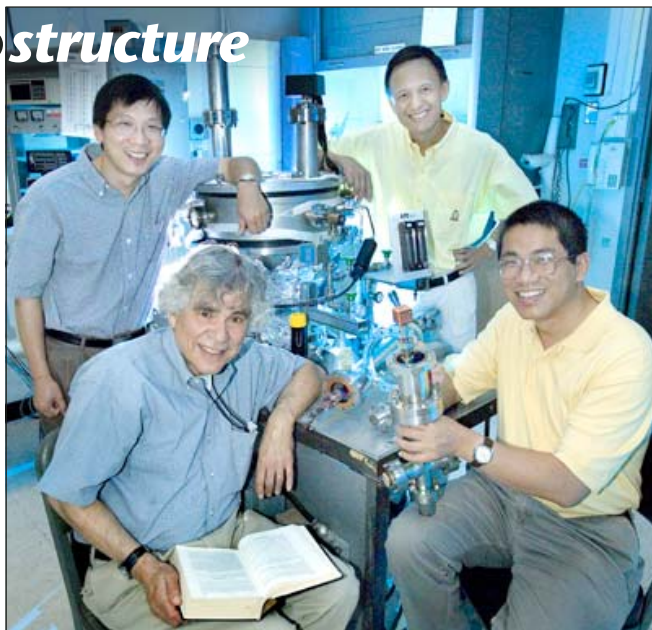


BNL Scientists Create New Nanostructure

In the lab where they created a new nanostructure — nanobelts bound to nanotubes — are BNL researchers (seated, from left) Myron Strongin and Wei-Qiang Han, (standing, from left) Lijun Wu and Yimei Zhu.



Roger Stoulenburgh D0220705

Funded by the Office of Basic Energy Sciences within DOE's Office of Science, BNL scientists have devised a method to create a new, intriguing nanostructure: ultra-thin, ribbon-like "nanobelts" bound to nanotubes.

The research achieves several "firsts" in the field of nanoscience, the study of materials on the scale of a billionth of a meter. Additionally, the new structure, described in *Nano Letters* in the June 4, 2005, online version and the July 13, 2005, print issue, is likely to have unique electrical and mechanical properties, and may be useful in many developing nanotechnologies.

"We have produced nanobelts that have controllable thicknesses of about two to five nanometers. It is significant work, since the controllability, the thinness, and the methods we used are all new achievements," said the study's lead researcher, Wei-Qiang Han of the Center for Functional Nanomaterials (CFN). "But, we are most excited about creating a brand-new type of nanostructure." Han's collaborators on this research are Myron Strongin of the Physics Department and Lijun Wu and Yimei Zhu, both of CFN.

"This new method is much better than other techniques, which typically yield nanobelts more than 10 nanometers thick," said Han. "Achieving smaller thicknesses is important, since thinner nanobelts have physical properties — better conductivity, for example — that are more suitable for applications, such as components in nanoscale electronic circuits. Also, because our nanobelts are bound to nanotubes, they will likely possess different properties than stand-alone nanobelts or nanotubes. We believe this new structure will enable many new advances in nanotechnology."

In future research, Han and his colleagues plan to study the nanostructure's properties, such as its ability to transport electrons. Understanding how the structure conducts will help them determine if it may be used as a component in nanoelectronic circuits.

— Laura Mgrdichian

For more information, including a description of how Han and his colleagues "grew" the nanobelts, see the press release of 6.27.2005 at www.bnl.gov/bnlweb/pubaf/pr/PR_archive.asp.

J. Patrick Looney Named ALD For Policy & Strategic Planning

J. Patrick Looney, a physicist who was Assistant Director for Physical Sciences & Engineering at the White House Office of Science & Technology Policy in Washington, D.C., has been named BNL's Assistant Laboratory Director for Policy & Strategic Planning. After joining the Lab in February on a part-time basis, he took on his new position full-time on July 1.

BNL Director Praveen Chaudhari created the new position to help increase funding for the Lab's scientific programs. BNL is funded primarily by DOE, and, for fiscal year 2005, the total Lab budget is \$467 million.

Chaudhari said, "As Brookhaven continues to experience an extended period of flat or slightly reduced DOE funding, we have a stronger need than ever for an individual who can focus on strategic planning for the present and future of this Laboratory and also maintain and build relationships with key policy-making personnel. Patrick Looney brings a host of policy-making and strategic planning skills to BNL."

Specifically, Looney will oversee the Lab's business plan, which develops the direction of its scientific programs, as well as the Laboratory Directed Research & Development Program, a competitive program for Lab scientists in which BNL designates funding for highly innovative and exploratory research that fits into the its mission. Looney will also be responsible for the Lab's technology transfer functions, including collaborations with industry and work for others; and for increasing funding from sources other than DOE.

According to Looney, the three major strategic thrusts currently at BNL are: the soon-to-be-built Center for Functional Nanomaterials, where scientists will study and make materials at the atomic level, with the aim of understanding how to improve materials' chemical or physical functioning; the National Synchrotron Light Source II, a proposed new facility that would extend the limits of the current Light Source by producing x-rays more than 10,000 times brighter for basic and applied research in numerous sciences; and the development of the QCD Lab,

the coupling of the Lab's world-class accelerator, the Relativistic Heavy Ion Collider (RHIC), and a nuclear theory component to propel BNL to the forefront of nuclear physics research worldwide. This includes BNL's proposed upgrade of RHIC to RHIC II, which would increase the collider's rate of particle interactions tenfold.

"I am very impressed with the



Joseph Rubino D2110605

J. Patrick Looney

outstanding science at Brookhaven," Looney said. "My view of management's role is to facilitate such science, which is the prime work product at Brookhaven. Since I've been responsible for the oversight for all physical sciences in federal programs, including the Department of Energy, my experience translates well into how to position Brookhaven Lab to compete for new funds."

After earning a B.S. in physics from the University of Delaware in 1984, Looney went on to Penn State University, where he earned two more degrees in physics: an M.S. in 1986, and a Ph.D. in 1987. From 1987 to 2002, he held several research positions at the National Institute of Standards & Technology (NIST) in Gaithersburg, Maryland, eventually becoming a program analyst, responsible for developing policy and program plans for all aspects of NIST research. In March 2002, he became the Assistant Director, Physical Sciences & Engineering, in the White House Office of Science & Technology Policy, where he worked closely with other White House offices, including the Office of Management & Budget, to coordinate policy development and set budget priorities. Looney is a Fellow of the AVS American Science & Technology Society.

— Diane Greenberg

Russian Academy Awards Dmitry Kayran

Dmitry Kayran, Collider-Accelerator Department, was one of three scientists who have been honored with the 2005 Russian Academy of Sciences Medal for Junior Scientists. The award is given to outstanding young scientists in an all-Russia competition. Kayran, with Alexander Matveenko and Oleg Shevchenko, both physicists at the Budker Institute of Nuclear Physics, Novosibirsk, Russia, were honored for their work in nuclear physics.

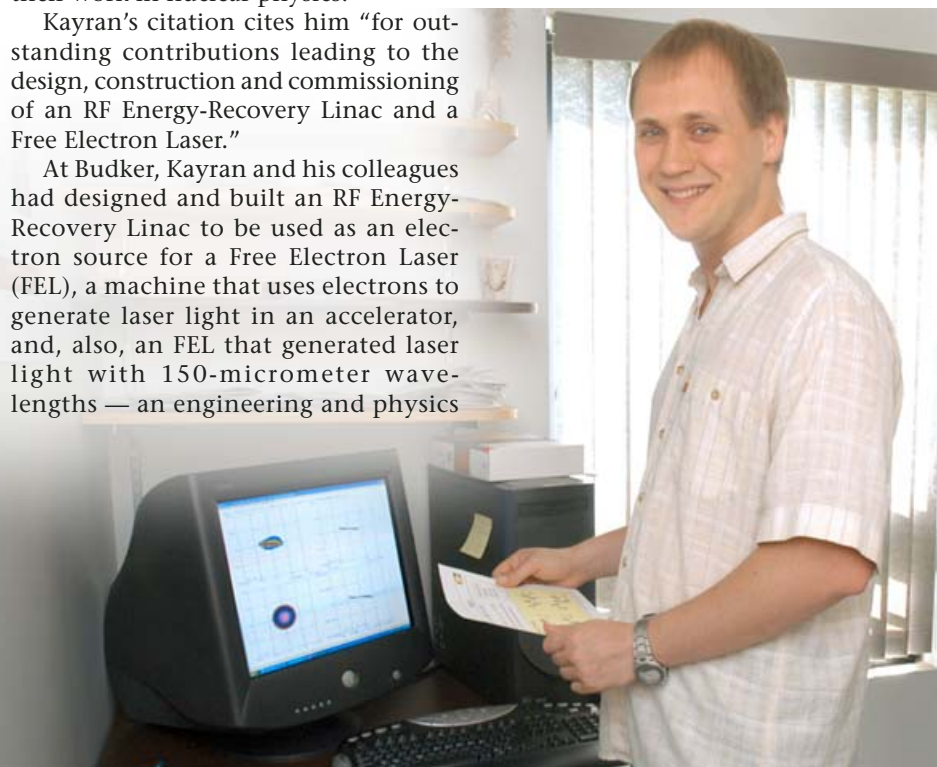
Kayran's citation cites him "for outstanding contributions leading to the design, construction and commissioning of an RF Energy-Recovery Linac and a Free Electron Laser."

At Budker, Kayran and his colleagues had designed and built an RF Energy-Recovery Linac to be used as an electron source for a Free Electron Laser (FEL), a machine that uses electrons to generate laser light in an accelerator, and, also, an FEL that generated laser light with 150-micrometer wavelengths — an engineering and physics

feat that they demonstrated for the first time. These wavelengths are important for biology experiments.

Funded by DOE's Office of Science and the U.S. Navy, Kayran is currently constructing an RF Energy-Recovery Linac at BNL as a demonstration project. For more details on this device, which can eventually be used as a key component of an upgrade of BNL's Relativistic

(continued on page 2)



Joseph Rubino D0220605

Lawsuit Against Lab Dismissed: Appeal Filed

Newsday of July 15, 2005, reported on the dismissal of a lawsuit against BNL in which, in 1996, 16 community members living primarily south of the Lab sued to recover damages for personal injury and property damage alleged to be the result of various toxic emissions into their air, soil, and groundwater from the Lab.

As was posted on BNL's internal homepage on June 8, 2005, New York State Supreme Court Justice Mary M. Werner dismissed the complaint in a decision dated May 18, 2005. Specific to radiation, Justice Werner found that since release of radioactive materials never exceeded federal limits, plaintiffs' causes of action based upon negligence and strict liability were dismissed. For the same reason, the court dismissed plaintiffs' claims for emotional damages based upon the fear of health problems related to the emissions as well as any claim for

medical monitoring. The court also dismissed plaintiffs' claim for a private and continuing nuisance on the grounds that any exposure the plaintiffs experienced from BNL could not be characterized as intentional or unreasonable.

The July 15 *Newsday* article, however, reported that an appeal and motion to reargue the case has been filed. Among the problems noted by Richard Lippes, one of the attorneys who brought the suit, is that no ruling was made by Judge Werner on claims of chemical water-contamination.

Said Michael Goldman, one of BNL's attorneys who is working on the case, "As BNL has already stated in the original answer to the suit, extensive tests by Suffolk County in 1996 of wells in the area showed no chemical contamination from the Lab. We believe that these tests will be of importance in the final resolution of the case." — Liz Seubert

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 Chris Carter, Ext. 2873.
- Additional information for Hospitality Committee events can be found at the Recreation Bldg. and at the laundry, both 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 —

Weekdays: Free English for Speakers of Other Languages Classes

Beginner, Intermediate, and Advanced classes. Various times. All are welcome. Learn English, make friends. See www.bnl.gov/esol/schedule.html for schedule. Jen Lynch, Ext. 4894.

Mondays: BNL Gospel Choir

5:15-7 p.m. Berkner Hall. All faiths are welcome. www.bnl.gov/bera/activities/choir/.

Mondays & Thursdays: Kickboxing

\$5 per class. Noon-1 p.m. in the gym. Registration is required. Christine Carter, Ext. 5090.

Mon., Wed., & Fri.: Tai Chi

Noon-1 p.m., Brookhaven Center North Room. Adam Rusek, Ext. 5830 or rusek@bnl.gov.

Tuesdays: Welcome Coffee

10-11:30 a.m., Rec. Hall. First Tuesday of every month is special for Lab newcomers and leaving guests. Meet in the gazebo in the apartment area. Cindy Ottemann, 849-2646.

Tuesdays: BNL Music Club

Noon, North Room, Brookhaven Center. Come hear live music. Joe Vignola, Ext. 3846.

Tuesdays: Jiu Jitsu Club

6:30-7:30 p.m. in the gym. All levels, ages 6 and above. \$10 per class. Tom, Ext. 4556.

Tuesdays: Toastmasters

1st and 3rd Tuesday of each month, 5:30 p.m., Bldg. 463, room 160. Guests, visitors always welcome. www.bnl.gov/bera/activities/toastmasters/default.htm.

Tues., Wed. & Thurs: Rec Hall Activities

5:30-9:30 p.m. General activities, large-screen TV, ping pong, chess, games, and socializing. Christine Carter, Ext. 5090.

Wednesdays: On-Site Play Group

10 a.m.-noon. Rec. Hall. An infant/toddler drop-in event. Parents meet while children play. Meet in in the apartment area playgroup. Kati Petreczky, 821-4131.

Wednesdays: Weight Watchers

Noon-1 p.m. Michael Thorn, Ext. 8612.

Wednesdays: Yoga

Noon-1 p.m., Brookhaven Center. Free. Ila Campbell, Ext. 2206, ila@bnl.gov.

Thursdays: Reiki Healing Class

Noon-1 p.m., Bldg. 211 Conference Rm. Nicole Bernholz, Ext. 2027.

Fridays: Family Swim Night

5-8 p.m. at the BNL Pool. \$5 per family.

Fridays: BNL Social & Cultural Club

6-9 p.m., North Ballroom, Brookhaven Ctr., dance lessons, 9-11:30 p.m. general dancing. Rudy Alforque, Ext. 4733, rudy@bnl.gov.

— THIS WEEKEND —

Sunday, 7/24

*Summer Sundays: Chemistry, Nanoscience

10 a.m.-3 p.m. Learn about BNL research on addition, ultra-fast chemical reactions, the study of materials one-billionth of a meter small. And create your own chemical reaction — make slime! See notice, page 4.

Hospitality Committee BBQ

5 p.m. Gazebo in the apartment area. The Hospitality Committee invites the Lab community to a summer BBQ. Hamburgers, veggie burgers, hot dogs, and drinks will be provided. Bring dessert to share with six people. All are welcome. For more information, contact Lisa Yang, lisayang@optonline.net or 878-3937.

— WEEK OF 7/25 —

Monday, 7/25

IBEW Meeting

6 p.m. Centereach Knights of Columbus Hall, 41 Horseblock Rd., Centereach. A meeting for shift workers will be held at 3 p.m. in the Union Office. The agenda includes regular business, committee reports, and the president's report.

Wednesday, 7/27

*BSA Noon Recital

Noon. Berkner Hall. Paul Galbraith, Guitarist, will perform. All are welcome at this free public event sponsored by BSA. Visitors to the Lab of age 16 and older must carry a photo ID. See notice on page 3.

BNL, Longwood Partner to Benefit Students Longwood Recognizes BNL's Terrence Buck

Longwood School District has recognized BNL for participating in the School-to-Career Program at the Senior High School. As BNL's representative for the program for the past five years, Terrence Buck, Senior Human Resource Representative in the Human Resources & Occupational Medicine Division, was presented with a framed certificate thanking him for "invaluable service to Longwood students by providing opportunities for them to experience the world of business at first hand."

Says Buck, "This is a very worthwhile program and it is a rewarding experience to work on it. At Longwood, I am in close consultation with Ms. Teri Brogden, the Senior Advisor. Together, we identify promising students whom I match to BNL mentors who can develop their career interests. "This is your opportunity to learn how to participate and get a start on your career," I tell the students.



Terrence Buck (center), Human Resources & Occupational Medicine Division, was honored by Longwood School District for his work on BNL's High School and College Cooperative Program. With him are Sean Wilson (left) and Andrew Trepanis, two interns who are working at the Lab for the summer through the program.

"With this experience behind you, it will be much easier when it's time for you to join the workforce for real."

Buck's work at Longwood is

part of his responsibility for BNL's High School and College Cooperative Program, in which selected students get credit and a stipend paid by HROM for

their internship with a BNL mentor during afternoons from October through May. An excellent student may be invited to remain through the summer, when they work 8:30 a.m.-5 p.m.

"Right now, two Longwood seniors, Andrew Trepanis, who is mentored by Peter Thanos of the Medical Department, and Sean Wilson, mentored by April Gray of Fiscal Services Division, have both been asked to work on through the summer," says Buck. "They will both have a better start in their working life because of this experience."

These programs provide an excellent start to talented students, but are limited partly by scarcity of mentors, Buck admits.

"It's a big commitment, but the BNL staff who become mentors do find satisfaction in this worthwhile effort, and many are ready to take another student, another year," he says.

If you have an interest in becoming a mentor, contact Buck at tbuck@bnl.gov or Ext. 8715.

BNL/Longwood Celebrate Mentoring Program's Tenth Anniversary

June 1, the day of our annual field trip, was the highlight of this year's mentoring program," says Peter Soo. "We visited the Long Island ScienCenter in Riverhead, and 14 schoolchildren and their mentors attended."

Soo, a retired Lab employee who is a guest scientist in the Energy Sciences & Technology Department, leads the BNL/Longwood Schools mentoring program, which marks its tenth anniversary this year. Initially set up by New York State, the program has been kept ongoing by BNL volunteers, who mentor selected children in four Longwood schools close to the Lab.

On June 1, after a bus ride to the ScienCenter and a quick picnic lunch, the group met with museum staff for a talk on "Flotation and Flying." The children were then shown how to use the information they had just learned in a hands-on project to determine the abilities of different materials to float in different liquids. "It was amazing to see the interest that children have in science when it is well presented," Soo comments.

Transportation to the museum was supplied by Longwood School District, while the BNL Volunteers in Partnership (VIP) program paid for admission and gave each child a VIP T-shirt, a sports bag, various educational items, and \$10 to buy science gifts from the museum shop.

Soo explains that BNL volunteers mentor children during one lunch period per week throughout the school year. Currently, mentoring is carried out in the Ridge Elementary School, the Charles E. Walters Elementary School, and Longwood's Middle School and Junior High School. The philoso-

Guidance counselors Nicki Favalloro, C.E. Walters Elementary School; Tracy Gerber, Ridge Elementary School; Linda Indelicato, Longwood Middle School; and Marilyn Star, Longwood Junior High School, joined 14 students and their BNL mentors on a trip to the ScienCenter.



At the ScienCenter in Riverhead: Peter Soo (above, right) and children from the BNL/Longwood Schools Mentoring Program group trip, in T-shirts donated by BNL's Volunteers in Partnership program.

phy is to work with each child in both academic and social areas, as each child desires.

"The children find it exciting to have a caring, sympathetic, non-judgmental adult who will give them undivided attention in matters of interest to them," said Soo.

To date, about 50 BNL staff have taken part in the program,

including Terrence Buck (see story above). At this time, 15 mentors are involved, and new ones are being actively recruited. Mentoring is on a one-on-one basis with same sex pairs, and mentors frequently follow their child from school to school as their relationship develops. The value placed on the program by the schools is shown in a letter

to the BNL mentors from Tracy Gerber, Ridge Coordinator.

"On behalf of the students in Longwood Schools, I want to give my sincere thanks for a wonderful year. Your generosity and kindness mean the world to the students. I look forward to next year," notes Gerber.

For more information, e-mail Peter Soo at soo@bnl.gov.

Russian Academy Awards Kayran (cont'd.)

Heavy Ion Collider, see press release at www.bnl.gov/bnlweb/pubaf/pr/PR_display.asp?prID=05-68.

Kayran earned a B.S. and M.S. in physics from Novosibirsk State University in 1995 and 1997, respectively, and a Ph.D. in accelerator physics from Budker in 2000. He worked at Budker until February 2004, then joined BNL.

— Diane Greenberg

Trip to Ellis Island, Statue of Liberty, 8/7

BERA will sponsor a trip on Sunday, August 7, to tour Ellis Island and the Statue of Liberty. The luxury coach will leave the Brookhaven Center at 8:30 a.m., and leave the city at 4 p.m. The cost of \$25/adult, \$20/children of 12 and under includes ferry, ticket to the Statue of Liberty, as well as coach fare. Buy tickets at the BERA Sales Office in Berkner Hall, weekdays, 9 a.m.-3 p.m.

Summer Music Festival at BNL Joins With Summer Sundays, 8/14



Sponsored by the BNL Music Club, the fourth annual outdoor summer music festival will be held at BNL from noon until 6 p.m. on Sunday, August 14. Part of the Lab's Summer Sundays program, the free public concert will feature blues, rock, reggae, and a combination of drumming and martial arts.

The concert will be held on the lawn next to Berkner Hall, rain or shine. Visitors to the Lab age 16 and over must bring a photo ID. All concertgoers are advised to bring their own blankets or chairs. Also, the BNL Music Club encourages everyone to bring a nonperishable food item for the BNL Food Drive, which benefits local pantries in Brookhaven Town.

Featured live on stage at the concert will be Sam "Bluzman" Taylor, Long Island Music Hall of Fame inductee; Brookhaven employee George Bostick and Blues House, playing Chicago and electric blues; the Doug Gordon Band, featuring original classic rock; T-Man and the Aggression, a reggae band; and Ryu Shu Taiko, performing an exciting blend of martial arts, folk dance, and drumming.



Looking for Safety Suggestions

A new program, similar to the successful Pollution Prevention (P2) program, has been created as part of BNL's Integrated Safety Management /Occupational Safety & Health programs. Safety Solutions (S2) will seek, evaluate, and implement employee suggestions for safety and health improvement projects across the Lab.

For FY05, the total funding available from the S2 program is \$20,000. As they do in the P2 program, employees will first complete a project suggestion form and submit it to the S2 Council, which will review the proposals and select projects to be funded. For FY05, project proposals are due by July 31.

Potential projects could include purchasing protective safety equipment, providing training on unique hazards, replacing hazardous equipment, making ergonomic improvements, and many others. Projects that target specific processes as well as site-wide safety enhancements are eligible.

All BNL employees, users, and guests are encouraged to submit ideas using the project suggestion form available at www.bnl.gov/esh/shsd/OHSAS/S2_home.page.asp. For more information, contact your organization's ESH Coordinator or the S2 Program Manager, Robert Selvey, Ext. 3066, selvey@bnl.gov.

Salsa Picnic, 7/30

The Hispanic Heritage Club invites all to a Salsa Picnic on Saturday, July 30, 11 a.m.-6 p.m. at the gazebo near the softball fields. DJ Alex will provide music for listening and dancing, and volleyball and other outdoor activities will be available. For children, games and face-painting will be provided, and hot dogs, hamburgers, and drinks will be available. Adults: Bring a dish to share with three or four people. For more information, contact Omar Gould, Ext. 2656, or Yvette Malavet-Blum, Ext. 5591.

Fall 2005 On-Site Courses

The following courses will be offered on-site for the fall 2005 semester and will satisfy requirements for most Suffolk County Community College degrees. A minimum of 12 students is needed for each course.

BA55 - Organizational Behavior

Study of the nature of people in a business environment, significance of work, and the human resource. Topics include job satisfaction and motivation, formal and informal work groups, organization and authority, employee relations with the public, decision making and problem solving, the needs and goals of both people and the business environment. No prerequisite, 3 credit hours.

EK11 - Current Economic Issues

Introduces use of economic methods for understanding social and political events dominating news headlines. Crime, health care, poverty, and taxes are issues important in our daily lives and may serve as topics in developing the course. No prerequisite, 3 credit hours.

Employees taking college courses may apply for tuition assistance. BNL offers tuition advances or reimbursements at a rate of 75 percent for undergraduate courses. For more information, contact Starr Munson, Ext. 7631.

In Memoriam

James Oster, who became a carpenter in the Plant Engineering Division on November 30, 1964, and left the Lab on December 31, 1982, died on March 6, 2005. He was 87.

Frederick Pond, who joined the Alternating Gradient Synchrotron Department on April 1, 1979, as a staff assistant, died on April 8, 2005, at age 81. On April 30, 1988, he retired as a supervisor after six years in the Supply & Materiel Division.

Norman Keller, who arrived at BNL on September 23, 1974, to join the Central Shops Division as an experimental machinist, and retired as a tool & instrument maker group leader on April 30, 1992, died on April 23, 2005. He was 75.

Kenneth Foley, who became a research associate in the Physics Department on September 25, 1961, and, with a continuing appointment, rose to be named Senior Physicist in 1983, died on April 26, 2005, at the age of 69. He left the Lab after 42 years, on April 11, 2004.

Joseph Forrest, who, as an associate technical specialist, joined the then Department of Nuclear Energy on March 1, 1955, died at age 82 on May 23, 2005. He was named Associate Chemist on March 1, 1977, and retired on April 30, 1986.

William Fleischman, who became a staff shop technician Ilin the then Instrumentation & Health Physics Division on March 30, 1959, and retired as a technical associate II on December 3, 1990, died at 86 years old on May 30, 2005.

John "Jack" Gannon, who joined BNL as a technical associate III on May 28, 1974, in the Instrumentation Division, and, by May 1, 1985, was promoted to Senior Technical Associate, died on July 1, 2005. He was 60. He left the Lab on May 6, 2005.

Recital

BSA Noon Recital

Guitarist Paul Galbraith

7/27



On Wednesday, July 27, prize-winning classical guitarist Paul Galbraith, lauded for his "exceptional artistry" by the *New Yorker* will perform at BNL. All are welcome.

In Galbraith's unique playing style, the guitar (which has two extra strings, one high, one low) is supported by a metal endpin, similar to that of a cello that rests on a wooden resonance box. Both the guitar's extraordinary design and Galbraith's playing style are considered groundbreaking development in the history of the instrument, increasing its range to an unprecedented extent. Today, Galbraith is a much sought-after artist at major concert halls throughout the world.

Noon recitals, which are sponsored by BSA, are free and open to the public. All visitors to the Lab age 16 and over must bring a photo ID.

Service Anniversaries

The following employees celebrated service anniversaries during May 2005.

40 Years

Bruce Style CEGPA

30 Years

MaryAnne McGrath HR&OM

25 Years

Jean Bunselmeyer Staff Svcs.

Hugh Rhodus Plant Eng.

20 Years

Yong-Nian Tang NSLS

Dana Beavis Physics

Roger Katz C-A

Linda Feierabend Physics

Vicki Feldman SSD

10 Years

Lihong Ma ESD

Divine Adika S&H Svcs.

Joseph Drozd C-A

Alice Cialella Env. Sci.

Marie-Luise Hobson Fiscal Svcs.

Steven Bellavia C-A

Paul Humbert Plant Eng.

The following employees celebrated service anniversaries during June 2005.

35 Years

Howard Gordon Physics

Frank Dusek C-A

30 Years

Brian Briscoe C-A

Ralph Giordano, Jr. Plant Engi.

Susan Rackett-Rossetti SSD

25 Years

David Schlyer Chemistry

Daniel Sheppard CFS

Ronald Hauser CFS

Dieter Schneider Biology

Joseph Curley C-A

Bruce Penn Budget Office

Joseph Tuozzolo C-A

Edward Gallagher BSD

Peter Daum Env. Sci.

Denise Miesell-Bingham Plant Eng.

Payton King Medical

Wu-Tsung Weng HENP

Richard Backofen CEGPA

Francis Loeb Physics

David Kirby Physics

20 Years

James Durnan S&H Svcs.

Christopher Robertson PPM

Catherine Osiecki CEGPA

Edward Grove ES&T

John White, Jr. C-A

Denise Monteleone Biology

David Lissauer Physics

10 Years

John Glass Medical

David Loughlin C-A

James Jardine Biology

Marcelo Vazquez Medical

Beth Lettieri Rad. Ctrl.

Arrivals & Departures

Arrivals

Iouri Smirnov Physics

Departures

Melissa Abramowitz NSLS

Kuo-Shyan Lin Chemistry

Calendar

(continued)

Saturday, 7/30

Trip to Six Flags Great Adventure

7 a.m. Brookhaven Center departure. BNL's Office of Educational Programs sponsors trip. \$40 covers breakfast, luxury coach transportation, park and safari admission. Cash only. The bus will leave the park at 7 p.m. Tabatha Wyche, Bldg. 438, Ext. 2870.

Sunday, 7/31

*Summer Sundays: Science Museum

10 a.m.-3 p.m. See notice, page 4. Explore interactive exhibits at BNL's Science Museum. New this year, a 3-D visualization theater. Also, the Long Island ScienCenter will feature a hands-on exhibit on the physics of toys, and the Goudreau Math Museum will offer math games. A science magician will uncover the science behind the tricks.

— WEEK OF 8/1 —

Sunday, 8/7

*Summer Sundays: NSLS

10 a.m.-3 p.m. See notice, page 4. The facility to be featured is the National Synchrotron Light Source. Learn about discoveries made with "invisible light" that impact everyday life.

— WEEK OF 8/8 —

Wednesday, 8/10

St. Joseph's College Demo

11 a.m.-1 p.m., Berkner Hall. Representatives from the St. Joseph's College Graduate Management Studies Program will present information about degree programs including the Executive Master of Business Administration and Master of Science in Management with Concentrations in Organizational Management, Human Resources Management and Health Care Management. The school will offer an EMBA with a concentration in accounting in the near future. Classes meet every other week, evenings, weekends. Matthew Colson, 447-3933

Sunday, 8/14

*Summer Sundays: Celebration and Music Festival

10 a.m.-3 p.m. All are welcome. See notices, top of pages 3 and 4.

— WEEK OF 8/15 —

Wednesday, 8/17

Marriott Residence Inn Demo

11 a.m.-2 p.m., Berkner Hall. Representatives from Marriott Residence Inn in Holtsville, a few exits west of the Lab, will present an overview of available services and discounted rates. Contact Donna Chider, 475-9500, Ext. 4908, dchider@colwenhotels.com.

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. Enter 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.

Tennis, Anyone?

Trip to U.S. Open, 9/6

Some seats remain on the BERA Tennis Committee's bus trip to the U.S. Open Tennis championships at the National Tennis Center, on Tuesday, September 6. The bus will leave from the Lab tennis courts parking lot at 8:30 a.m. and make one stop at the LIE exit 63 Park & Ride. Departure from the National Tennis Center will be at 7:30 p.m. The trip costs \$65 per person, which includes admission (now \$45), the roundtrip bus fare, and tip for the driver. Buy tickets at the BERA Sale Office in Berkner Hall, Ext. 3347.

Save Time, Plan Ahead

Use On-Site Service Station

Need your vehicle inspected, or your brakes or battery checked and/or replaced? This and much more can be done at the on-site service station while you are at work. Call Ext. 4034 for more information.

BNL Summer Sundays — This Sunday Features Chemistry, Nanoscience

This summer, combine free family fun and learning something about the tremendous discoveries at the Lab by visiting BNL on a Summer Sunday. You can try out interactive exhibits, see an entertaining science show, and each week, tour a different facility and meet a scientist who will tell you in nontechnical terms about some of BNL's forefront research.

Summer Sundays run through August 21. No reservations are needed. Visitors, including anyone from the Lab community, may arrive at any time between 10 a.m. and 3 p.m. All visitors

age 16 and over must bring a photo ID.

Every Sunday, the educational and entertaining “Whiz Bang Science Show” will be staged at 10:30 a.m., noon, 1:30 p.m. and 3 p.m. In addition, visitors may test their creative and problem-solving skills at the Brain Teasers exhibit in Berkner Hall lobby. Artifacts from Camp Upton — the U.S. Army base that occupied the Lab site during World Wars I and II — will also be on display. The Summer Sunday schedule of facilities to visit follows:

7/24 **Chemistry and Nanoscience:** Why do some people crave chocolate, nicotine, and cocaine? Hear scientists describe efforts to understand the brain and addictions. See the facility where scientists study ultra-fast chemical reactions. Talk with researchers about the new field of nanoscience. Create a chemical reaction — make slime!

7/31 **Science Museum:** Learn how to play with science.

8/ 7 **National Synchrotron Light Source:** See with invisible light, learn about discoveries impacting everyday life.

8/14 **Celebration Sunday:** See the Einstein & Beyond Magic Show, Blues/Jazz Concert, Camp Upton history, much more.

8/21 **Relativistic Heavy Ion Collider (RHIC):** Probe matter thought to have existed at the beginning of the universe.



Joanna Fowler, Chemistry Department

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 JOBSITE, 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/HR/jobs/default.htm.

The following positions have been exempted from the freeze by the Deputy Director:

LABORATORY RECRUITMENT - Opportunities for Laboratory employees

TB3422. ADMINISTRATIVE SECRETARY (A-2) - Requires four years' relevant experience, strong communication skills, excellent Microsoft Office skills — especially Access, Excel and PowerPoint, and BNL PeopleSoft system experience. In addition, must have strong knowledge of BNL credit card and purchasing system and be able to work independently with excellent organizational abilities. Will provide administrative/secretarial support including extensive foreign and domestic travel. Within a growing department, will work with scientific research groups, and provide assistance, as necessary, to generalized CFN activities. Center for Functional Nanomaterials.

TB3746. ADMINISTRATIVE SECRETARY (A-2) - Requires formalized secretarial training or the equivalent, plus four years of pertinent experience, and comprehensive knowledge of Laboratory practices, policies, and procedures related to assigned routine and non-routine administrative functions. Excellent oral and written communication skills are required as well as expertise in BNL's domestic travel system and collaborator/consultant reimbursements are also required. Proficiency with MS Work and MS Power Point is desirable. Will be responsible for providing clerical, secretarial and administrative support to the Department Chair, Chemistry Department staff and administrative personnel as well as maintaining confidential administrative records and reports with considerable planning, coordination, and follow-through. Chemistry Department.

Motor Vehicles & Supplies

04 VW JETTA GLS - 1.8 turbo, Tiptronic a/t, htd/seats, pwr. m/rf., Monsoon stereo, factory warr., 15K mi. \$17,000/neg. Ext. 7277.

03 MERCEDES C240 4MATIC WAGON - V6, silver, pwr.s/roof, See <http://usr.v7.com/ts/>. 21K mi. \$24,900/neg. Taka, Ext. 8408.

01 HYUNDAI ACCENT L - hbk., 5-spd., 4-cyl., 2 a/bags, a/c, am/fm/cass., 56K mi. \$4,750/neg. Georgia, Ext. 4082 or 321-604-1183.

00 HARLEY DAVIDSON ROAD KING - mdl. FLHRI, red, fuel injected, laced wheels, mint. 10,000 mi. \$15,000/neg. 516-238-5986.

00 FORD ESCORT ZX2 - a/c, p/s, p/w, p/l, am/fm/cass. red, rear spoiler, 2dr, 4cyl, a/t, excel. cond. 47K mi. \$6,950/neg. Ext. 5282.

00 CHEVROLET EXPLORER LTD SE - V8, 14" tv, vcr, grmd effect pkg, fog lamps, sofa, chairs. 66K mi. \$16,800/neg. 631-889-5302.

98 FORD 150 - V6, 4wd, a/t, a/c, p/s, ABS, new tool box, am/fm/cass, clean, strong truck. 52K mi. \$10,200. Ext. 7430 or 286-6492.

98 FORD CONTOUR SE - 4dr., auto, cruise, a/c, all pwr., new battery & tires, excellent cond. 88K mi. \$3,650/neg. Yiqun, 395-5474.

96 CHRYSLER CIRRUS LXI - 4-cyl, a/t, a/c, abs, c/c, p/w, leather, good cond., recent NYS insp. 75K mi. \$2,800/neg. Mark, Ext. 2247.

96 TOYOTA COROLLA - 1.8L, a/t, a/c, cp/w, p/b, p/s, am/fm/cass, new parts, 30/37 mpg. 166K mi. \$2,950/neg. Ext. 3509 or 886-1144.

96 ISUZU RODEO - 4x4, a/c, auto, alarm w/ rem. start, pwr. windows & locks, runs well, good tires. 109K mi. \$4,300/neg. 286-4651.

95 MERCURY VILLAGER - 6-cyl. minivan, p/b, p/w, p/l, p/s, c/c, abs, runs well. 157K mi. \$1,200/neg. Ext. 4457 or 751-2168.

95 FORD F250 - 4X4 8' bed no rust or dents, cap, cd, a/c, a/t. excel. cond. 103K mi. \$7,000/neg. Roy, Ext. 4843 or 727-6714.

94 TOYOTA CAMRY - LE V6, abs, air bags, p/b, p/l, p/s, p/w, very gd. cond.. 92K mi. \$4,900/neg. David, Ext. 2604 or 473-2473.

93 CHEVY CAVALIER - 2-dr., a/t, abs, a/c, cd. Engine runs well, some body damage. 129K mi. \$650/neg. Ext. 4826 or 821-3762.

92 CHEVY S-10 BLAZER - 6-cyl, a/t, abs, 4x4, am/fm, p/w, p/l, r/r/rk, clean, runs, 154K mi. \$998/neg. Ext. 3085 or 849-4167.

91 CHEVY CAPRICE CLASSIC - 8-cyl., c/c, p/b, p/s, p/w, A/C, abs, good cond. 63K mi. \$2,500/neg. Ext. 7129 or 516-779-3116.

91 GMC JIMMY - 6-cyl., 4dr., very reliable. 70K mi. \$1,500/neg. Lauren, 331-6493.

69 CHEVY EL CAMINO - runs well, needs restoration, 8-cyl a/t, must sell. 90K mi. \$400. obo. 875-9426.

RADAR LASER DETECTOR - Escort Passport 8500, like new, \$150. George, 725-4068.

Boats & Marine Supplies

14' QUICKSILVER 380 - inflatable w/hard bottom, trailer incl. \$700. (Without trailer, \$500.) Jerry, 874-0437.

OUTBOARD MOTOR - 5HP Mercury, like-new condition, fresh water use only, \$475. Lloyd, Ext. 5225 or 631-327-0106.

Furnishings & Appliances

AIR CONDITIONER - Low profile, for sash window, 6000 Btu, \$50. Peter, Ext. 3535.

AIR CONDITIONER - GE, rem. cont., portable, windowless, 7,000 Btu, used 1 season, \$125. Norman, Ext. 4669 or 319-0100.

AIR CONDITIONER - Friedrich 10,200 Btu sleeve w/digital temp controls, remote, warranty, Energy-Star. \$800 new, now \$300/obo. Frank, Ext. 2022 or 586-0779.

AIR CONDITIONER - 28,000 Btu Friedrich, 2 yrs old, 3 years left on service warranty, \$1,000/neg. Tom, Ext. 3085 or 849-4167.

BABY'S BASSINET - good condition, \$20. Chris, Ext. 2094 or 929-5008.

BEDROOM FURNITURE - pine, 2 night-stands. 2 dressers. headboard, chestnut stain, good cond. \$700. Richard, Ext. 3932.

BEDROOM SET - 5pc., contemporary, queen platform bed, triple dresser w/mirror, 2 night-tables, armoire. \$500. Ext. 5218.

BEDROOM SET - queen size, Ikea MALM, color beech veneer, 2 chests, dresser, \$250. Bernd, Ext. 3640.

BEDROOM SET - 6 pc. gray formica, queen hdbd, triple dresser, armoire, 2 3-dwr. night stands, \$125. Denise, Ext. 5055 or 929-7225.

CLIMBER/PLAY-LOFT - used indoors, adj. height loft. Scott, Ext. 7110 or 874-3652.

COMPUTER DESK - wood w/printer and file drawers, \$50. Tom, Ext. 3085 or 849-4167.

DAYBED - pink enamel iron frame w/porcelain finals, \$50; glass mirrors w/hdwre, two of 66x36 in., more, \$50 ea. Brian, Ext. 4028.

EXERCISE BIKE - \$5; VCR, \$10; Panasonic DVD player, \$40. Raman, Ext. 2770.

GARAGE DOOR OPENER - Craftsman 1/2 hp, all parts and remotes for installation, \$50. Tom, Ext. 3085 or 849-4167.

KITCHEN ITEMS - Juicer \$30, Fryer \$30, Bread mach. \$30, Zojirushi rice cookers (\$20 for 4-cup, \$40/10-cup). Yongjae, Ext. 8485.

LAMPS - (2) one floor, one table, cream color iron & shade. J.C. Penney, excel. cond. \$50/both. 821-1271.

MICROWAVE - Sharp, large, \$55. Also: air purifier, Holmes, with filters, almost new, \$75. Also: loft bed, \$85. 821-1435.

OCCASIONAL TABLES - 3-pc. Nichols & Stone, solid birch, two-tone finish. \$400. Excel. cond. Ext. 7918.

RADIATOR - Oil-filled radiator by Pelonis, 1500 W, excellent, \$25. John, Ext. 4028.

SEWING MACHINES - Singer: 1 model 237 elect. zigzag in walnut cab.; 1 antique cast iron w/cherry cab. \$50/ea. Brian, Ext. 4028.

SLEEP SOFA - Dbl. wide, green & white linen with pillows, \$200. David, 631-395-3483.

TV/DVD/VCR - Toshiba 24" flat screen, built in DVD & VCR, 1 yr. old, \$150. Ext. 7439.

WALL OVEN - 24" Magic Chef, gas, almost new, used twice. \$200. 514-9871.

Audio, Video & Computers

COMPUTER - 500Mhz P3 CPU, DVDROM dr., 128Mb RAM, 8.6Gb HD, keybd., Win2K OS, MS Off. XP, \$100. Ext. 7237 or 929-6571.

COMPUTER - Pentium III, 550MHZ, 256MB RAM, 6GB HD, Windows 2000, \$75/obo. 14" monitor, \$10. Gary, Ext. 2550 or 312-3205.

COMPUTER - PIII 866 MHz, 512MB ram, 100GB HD, CD, DVD RW 4x, Multimedia, 19" mon., \$250. Bernd, Ext. 3640.

COMPUTER - Intel 2.2 GHz d/top pc w/ 300GB HD, 1GB RAM, 16X DVD bmr., WinXP Pro, Off2K3 Pro, keybd, more, 471-2933.

MONITOR - Dell 17", \$25. 929-6571.

MONS/CAMERA - Samsung 17", \$200. KOGI 15", \$100. Olympus C-4040z 4MP dig cam.+more, \$250, all neg., Tolik, 662-4881.

PLAYSTATION 1 - w/game, controller, mem. card, \$50. Gameboy color, w/game, case and light pack, \$30. Chris, Ext. 2094 or 929-5008.

TV, VCR - 13" Panasonic TV, \$25, & VCR, \$15. Both gd. cond. Yongjae, Ext. 8485.

VCR - RCA, w/remote \$50; cordless phone, \$25; Epson 740 stylus color printer, \$35. 821-1435.

Sports, Hobbies & Pets

BICYCLE - 17" Land Rider, auto-shift, (as seen on tv), like new, orig. \$480, ask \$250. 725-4068.

TREADMILL - Sears, model C1800s, view at www.nordictrack.com, used one mo. Pd. \$800, ask \$450. Ext. 7009 or 471-7479.

VIOLIN STRINGS - full set, red label, 1/8 size, unused, \$8; Kun violin/viola shoulder rest, 1/4-1/8, \$10. Ext. 7113 or 751-2621.

YANKEES vs. TEXAS - 3 Main Box seats: Sat., Aug 13 at 1:05 p.m. Stadium club passes incl. \$120. John, Ext. 2745.

Miscellaneous

BOOSTER SEAT - Fisher Price, \$15; crib mattress, \$25; jewelry bx, \$12; brd. games, \$7/ea.; figurines, \$4 & \$5, more. 751-2621.

EXERCISE BIKE - Used 3 times, wheel encl., upper body attachmt., w/mon., \$75. 395-3483.

FRONT DOOR - alum., w/glass panels. 924-6475.

GUN COLLECTION - old rifles, various prices. Randi, 395-3483.

RELIGIOUS CROSS - lead crystal Cross, paperweight/decorative item, beautiful, heavy, approx. 7" x 4-1/2", \$25. 803-0506.

Wanted

LAPTOPS WANTED - Will pay cash for old or broken laptops. E-mail or call me with specs. laptops@myrtletek.com. 928-8389.

Yard & Garage Sales

HAUPPAUGE: Sat. 7/23, 10 a.m.-4 p.m., #532 Nichols Rd., Exit 58 off LIE, 1 mi. north.

For Rent

BLUE POINT - 1 bdrm apt, l/r, eat-in-kit, priv. ent. and yard, walk to beach, central A/C, cable, utils. incl. \$950/mo. 363-2268.

CENTER MORICHES - Female roommate wanted to share 4-bdrm house w/2 BNL women. Lrge. priv. bdrm, semi-priv. bath avail. 15 min. to BNL, on beach, fp. \$700/mo. Molly, Ext. 2362.

KISSIMMEE, FL - 2 mi. to Disney, 5 bdrm, 4 bath. pool/spa, game rm,8/6-13/05 or 8/20-27/05, price incl. taxes, www.family-vacation-homes.com \$980/wk. 889-5303.

MASTIC BEACH - 2-bdrm. first floor apt. for rent. Available 8/15. No smoking/pets. \$1,250/mo. Mario, 516-641-9866.

MEDFORD - 2-bdrm. basement apt., includes all. \$1,000/mo. Scott, 698-9016.

MEDFORD - new 2-bdrm.,10x10, 10x12 bsmt. apt., lg. kit. & dr/lr, side yard, off str. pkg, utils incl., no smkg/pets. \$1,200/mo. 374-3967.

MILLER PLACE - share lg. Col. house, furn. cac, internet, tv, big w/w bdrm, fenced back yard w/ deck, resid. area. 9 mi. to BNL. mature nonsmkr. \$700/mo. 744-8386.

MILLER PLACE - 3-rm apt, furnished, x-lg. bdrm, full kit., ceramic tile bath, internet, tv, resid. area. 9 mi. to BNL, resp. non smoker. \$900/mo. 744-8386.

MT. SINAI - Spotless 1 bdrm, l/r, eik w/sky-light, w/d, dw, full bth, pvt ent., no smkg/pets, 1 mo. sec. Avail. 8/1. \$1,150/mo. 331-3295.

NESCONSET - Newly renov., 2-bdrm. bsmt apt. Sep. ent., beauf. area, close to LIE. No smkg/pets \$1,200/mo./neg. 631-433-1614.

SHIRLEY - Lrg 1 bdrm. bsmnt apt., priv. ent., new appl. Suitable for 1, nr. beach, parks, Lab. One mnth + sec. \$850/mo. Ext. 3846.

WADING RIVER - new studio/lr/full kitch; priv. drive, ent., patio w/fp/BBQ; 10 min. to BNL; high speed internet; digital cable; util incl. \$1,000/mo.886-1411.

For Sale

ARUBA - Time share, Marroitt, ocean veiw, can exchange. \$16,500/neg. Ext. 7238.

FARMINGVILLE - 1 bdrm., l/r, kit., bath, own thermo., priv. ent., util. incl., no smkg/pets. \$850. 732-9324 or 516-909-7501.

ST. MARTIN, CARIBBEAN - Pelican resort. 2 apts connected, rentable toghr. or sep. Kitch, TV, a/c. Slps. 6. Terr. over bay. Beach, pools, tennis. \$11,500/neg. 821-1435.

WADING RIVER - 2,000 sq. ft. 4 bdrm., 2 bath ranch, 3/4 ac, 200 amp svc, new roof, app, SWR SD, 25x17 f/r w/Fr. drs, new kit & bths,10 min to Lab. \$459,000/neg. 929-7225.

Buffalo at BNL

As many Suffolk County residents may know, a small herd of bison is being developed at a farm near Riverhead. But BNL also has a home-grown American buffalo look-alike in the apartment area on site. Anthony Palmore of the Plant Engineering Division spotted this surprising formation, which, says Cultural Resource Coordinator Mark Davis of BNL's Environmental & Waste Management Services Division, is really an oak burl, caused by a viral infection.



Roger Stoutenburgh photos