March/April 2001

ON TARGET

THOMAS JEFFERSON NATIONAL ACCELERATOR FACILITY • A DEPARTMENT OF ENERGY FACILITY

Sakurai winner!

Nathan Isgur receives American Physical Society award for 2001

Nathan Isgur, Jefferson Lab's Senior Theorist and Chief Scientist, was one of three physicists recognized in March by the American Physical Society as this year's recipients of the J.J. Sakurai Prize for Theoretical Particle Physics.

The prize is shared by the team of Isgur and Mark Wise of Caltech, and independently by Mikhail Voloshin of the University of Minnesota.

These three developed a theory that allows physicists to deduce the individual quark behavior of the very heavy bottom quark by showing how its properties can be directly inferred from the measurements of the charm quarks. The detailed properties of the heavier quarks have been difficult to determine experimentally because it is dramatically harder to create and study pairs of them than is the case for pairs of lighter quarks.

Scientists like to examine objects individually but this is impossible with quarks in nature because they are always bound to other quarks in pairs or groups of threes. The six different quarks that have been identified in nature (in order of increasing mass) are: up, down, strange, charm, bottom and top. The heaviest quark (the top) is about 100,000 times the mass of the lightest quark (the up). Deriving useful conclusions about quarks can now be better addressed due to the discovery made by Isgur and Wise, and Voloshin.

Continued on page 2

Nathan Isgur takes a break during the chiral dynamics workshop held at JLab last summer.

Nathan Isgur's comments on being awarded the Sakurai Prize

Receiving the Sakurai Prize from the Division of Particles and Fields (DPF) seems odd to me: I wish this work could have been recognized jointly by the DPF and the Division of Nuclear Physics (DNP).

My uneasiness has something to do with the fact that most of my work on this problem was funded by the DNP of the DOE, and a great deal to do with my current tongue-in-cheek definition of a DPF physicist who works on QCD versus a DNP physicist who works on QCD: the former studies the strong interactions to get rid of them, while the latter studies them because they are fascinating! This dichotomy existed in the field when the work for which I am being recognized was done, but it is even more acute now.

At the time, the big issue was the probability for the newly discovered "beauty" quark b to decay into a "charm" quark c, and my collaborator Mark Wise from Caltech and I were focussed on that (DPF-type) problem. As collaborators, I brought mainly my knowledge of hadron dynamics (B mesons (made of a b quark confined to an ordinary "constituent" light quark with glue), their cousins, and the dynamical models for their behaviour) and Mark mainly brought his knowledge of quark dynamics (b quarks and how to treat their field theory). It was having just the right mixture of expertise that brought us success.

Today we can systematically eliminate strong interactions from many key b quark matrix elements. In other cases we have encountered serious roadblocks in doing so (often ones which Mark and I foresaw would be roadblocks based on hadron dynamics, not quark dynamics.)

Today we have also used the *fascinating side* of heavy quark symmetry to make great strides forward in understanding the strong interaction. Bjorken said it right at the very beginning in his plenary talk at the International Conference on High Energy Physics in Singapore in the summer of 1990: "At last I know what a constituent quark is: it is whatever the hell it is circulating around the b quark in a B meson". Even today the simple empirical picture (see the Figure) one would sketch based on this remark is haunting:

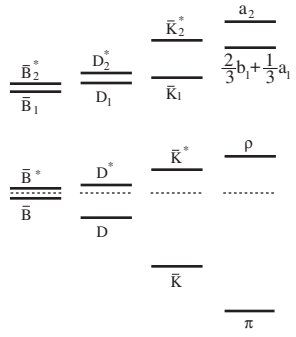


Figure: The $Q\bar{q}$ meson spectra as a function of the "heavy" quark mass.

We see from this picture that in mesons containing a single heavy quark, $\Delta E_{orbital}$ (the gap between, for example, the (D_2* and D*), is approximately independent of m_Q while $\Delta E_{hyperfine}$ (the gap between, for example, the D* and D) varies like $1/m_Q$ in both the ground and excited states, as expected in the heavy quark limit.

It is very striking from this Figure that the basic properties of these hadrons are changing slowly as a function of $1/m_Q$, *i.e.*, a heavy-to-light mass extrapolation seems to work, even though in the heavy quark limit a hadron is dominated by a single Q plus its associated "brown muck" (the name I gave to the complex light quark and glue system which combines with the Q to make the meson), with neither $Q\bar{Q}$ loops nor Q relativistic propagation. The success of such an extrapolation is not immediately reconciled with the usual treatment of the u, d, and s quarks as chiral (nearly massless) objects, which undergo spontaneous chiral symmetry breaking to produce the $\rho - \pi$ splitting.

In closing, let me just remark that I had always hoped that our work would be considered worthy of the Sakurai Prize, but I never expected it to be so honored. I am very moved.

Nathan Isgur
Spring, 2001

Nathan Isgur receives APS award. . .

Continued from page 1

The citation for the prize recognizes Isgur, Wise, and Voloshin "For the construction of the heavy quark mass expansion and the discovery of the heavy quark symmetry in quantum chromodynamics, which led to a quantitative theory of the decays of c and b flavored hadrons."

Measurements on the properties of mesons, or quark pairs, containing the heavy bottom quark are currently underway at the Stanford Linear Accelerator Center in California and KEK the High Energy Accelerator Research Organization in Japan. These studies may provide new information that can be used to solve the puzzle of the matter-antimatter asymmetry in our universe.

The family and friends of J. J. Sakurai — an internationally known particle physicist — endowed the annual prize in 1984 as a memorial to and in recognition of the accomplishments of Sakurai. The purpose of the prize is to recognize and encourage outstanding achievement in particle theory. This year's winners were announced during the March meeting of the American Physical Society in Seattle.

Isgur has also recently been recognized by ISI Thomson Scientific for being among the world's most cited authors — comprising less than one-half of one percent of all publishing researchers.

Introducing

Warren Funk brings extensive experience, knowledge to Lab, SNS project

by Judi Tull

As a young boy growing up in a small town in Canada, Warren Funk took to reading science fiction. "There wasn't much to do there," he recalls with a laugh.

By the time he got to high school in the province of Manitoba and started to think about a career path, he realized it had to be science. "When I looked at what I really enjoyed, that had to be it," he says.

As the Project Services Manager for Jefferson Lab's part in building the Department of Energy's Spallation Neutron Source, Funk is living out his youthful vision.

After graduating from the University of Manitoba, he went on to the University of British Columbia at Vancouver where he earned his doctorate in plasma physics. His first job was at the Chalk River Nuclear Laboratory in eastern Ontario, which he refers to as the Canadian equivalent of Argonne. He spent 18 years there working in accelerator physics, beginning on small electron accelerators for cancer therapy applications. His next project was on a radio frequency system as Canada's contribution to a partnership with the German HERA project.

As a result of that work, he was offered a position to work on the Superconducting Supercollider project and moved to Texas in 1990. He worked there as the manager of the Linear Accelerator group until the project was cancelled, and then stayed on to work with a fledgling partnership between a teaching hospital and a small company.

In his next position, with Westinghouse at DOE's Savannah River Site from 1996 to 2000, Funk served as "the accelerator guy" on a project that was run out of Los Alamos National Laboratory. He prepared and managed a training program for several hundred people on the Accelerator Production of Tritium.

During this time, his family — wife Dorothy and sons Christopher and Geoffrey — were still living in Texas since his younger son was still in school. As luck would have it, he traveled frequently from South Carolina to New Mexico, and Dallas was just about halfway between.

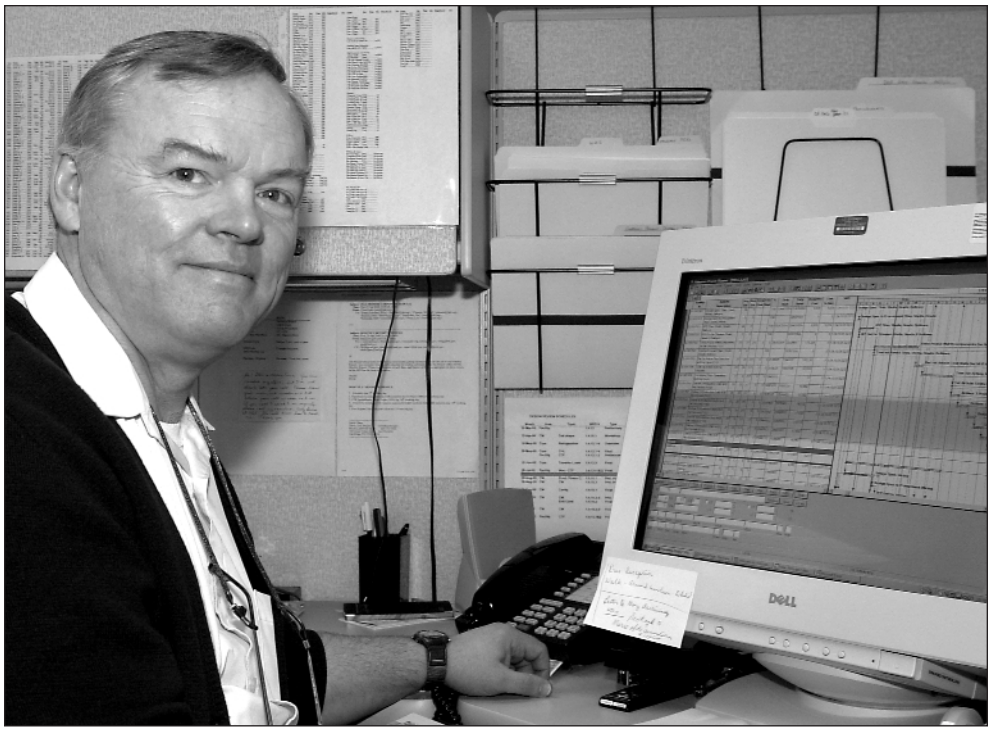
Funk and his wife Dorothy moved to Williamsburg and he started work here on May 23, 2000. His primary responsibilities are to provide cost analysis and scheduling support to Claus Rode, Director of the Accelerator Division's Projects Department, and Project Manager for Jefferson Lab's contribution to the $1.4 billion Spallation Neutron Source (SNS) being built at Oak Ridge, Tenn. He also assumes Rode's project responsibilities when the latter is away from the office.

He has recently been involved in initial discussions about the process for assuring a successful handover of JLab-produced systems and components to the SNS, a particular challenge since this type of partnership among the national laboratories has never been tried before.

Although he's not directly involved in the technical work, Funk says he likes to keep in touch with the technical staff as much as possible, not just because it promotes better working relationships but also out of his personal interest in the science.

"It was easy getting used to working here," Funk comments, "because everyone has been helpful and friendly. Meeting people has been easy, since the Lab is a relatively small organization, especially compared to Los Alamos."

Funk and his wife are enjoying Williamsburg and visit historical sites and other local attractions during their leisure hours. They are both licensed single-engine and glider pilots, and both have instructed in gliders, although they've gotten away from their favorite hobby over the years and would like to get back to it. "Gliding is the purest form of flying there is," he says.



Warren Funk takes a moment out of his busy day to pose for a photo.

New APS Fellow

Gwyn Williams, FEL basic research program manager, earns peer recognition

Gwyn Williams, Jefferson Lab's Free Electron Laser Basic Research Program Manager, was named a Fellow of the American Physical Society during March.

Williams' citation recognizes him "For the development of synchrotron radiation as a bright infrared source and for its application to studies of surface dynamics." Williams was presented his certificate of Fellowship during the APS DCMP (Condensed Matter) annual meeting in Seattle.

He said he is honored to be elected an APS Fellow. "It's something you aspire to," Williams commented. "It is a medal of honor given by your peers, recognizing your professional contributions and accomplishments to physics knowledge and understanding."

The APS Fellowship Program was created to recognize members who have made advances in knowledge through original research and publication, or made significant and innovative contributions in the application of physics to science and technology. Each year, no more than one-half of one percent of the then current membership of the Society are recognized by their peers for election to the status of Fellow in the APS. This year 194 new Fellows were named.

APS Fellows at Jefferson Lab

Southeastern Universities Research Association (SURA)
Jerry Draayer

Director's Office
Christoph Leemann
Ron Sundelin

Accelerator Division
Swapan Chattopadhyay
Charlie Sinclair
Gwyn Williams

Physics Division
Larry Cardman
Franz Gross
Nathan Isgur
Anatoly Radyushkin
Dennis Skopik

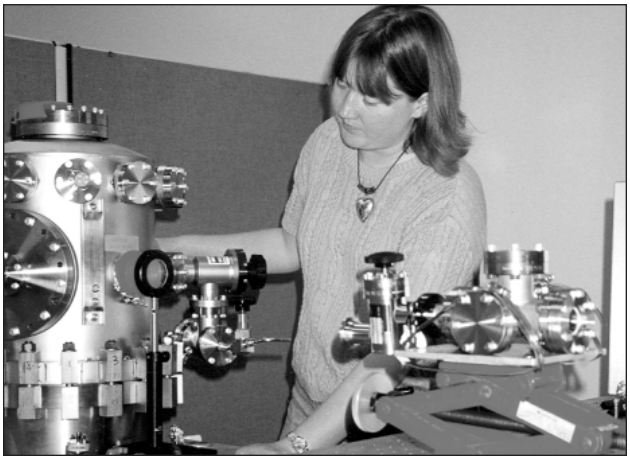
Career winner

Anne Reilly receives National Science Foundation award

Anne Reilly, College of William and Mary physics professor and Free Electron Laser user, received a prestigious CAREER award from the National Science Foundation during March.

The highly competitive Faculty Career Development (CAREER) Awards are designed to encourage research and teaching among young scientists in the early stages of their academic careers.

Reilly's award amounts to $450,000 over a period of five years. She earned her Ph.D. at the University of Michigan, Ann Arbor, in 1996 and worked for Jefferson Lab and William and Mary in a bridge appointment from August 1998 through August 2000. She specializes in optical techniques applied to the study of novel materials. With her research money, Reilly will work with graduate and senior undergraduate students at JLab's Free Electron Laser and in her laser lab in the William Small Physical Laboratory on the W&M campus. At the same time she plans to create hands-on experimental modules for use in teaching optics and materials science.



Anne Reilly sets up equipment for an experiment in an FEL user lab.

Reilly uses ultrashort laser pulses to study the magnetic behavior in ferromagnetic thin films, such as nanometer-thick films of cobalt or nickel grown on silicon. One major question in these materials is how fast the magnetization can be flipped back and forth. Such work has important technological implications for hard-drive read sensors and the next generation of computer devices called "magnetoelectronics" or "spintronics".

Introducing

Rusty Sprouse takes on top Plant Engineering job

by Judi Tull

When John "Rusty" Sprouse and his staff are doing their jobs, you probably don't even notice it. And that's the whole point, according to Jefferson Lab's Plant Engineering director.

"If everything is done right, people don't even think about us," he said. "We're transparent."

Sprouse's department's responsibility is to support the Lab's mission and the scientists who come here, by managing the site's everyday issues such as janitorial service, site-wide security, grounds maintenance, and upkeep of the electrical and mechanical systems in most of the Lab's buildings, including many of those within the Accelerator enclosure. They're also responsible for mail delivery, property inventory of large items, and overseeing plans, designs and construction of new buildings as well as additions and modifications to existing spaces.

"We don't want people to have to worry about these things," he explained. "We do our jobs so everyone else can do theirs."

Sprouse came on board to run the 22-person department last summer, after spending 26 years in the U.S. Coast Guard. He has two master's degrees — one in civil engineering and another in engineering management. By the end of his military career, Sprouse had attained the rank of captain and was in charge of the Coast Guard's Design and Construction Center in Norfolk. As the director there, he oversaw all capital construction east of the Rocky Mountains. Before coming to the Lab, he spent almost a year as the interim Associate Vice Chancellor for Facilities Management at the University of North Carolina at Charlotte.

He is pleased to be at the Lab. Sprouse said he found the staff to be immediately friendly, and very focused on getting their jobs done. "Sometimes on a new job it takes time to get in the groove," he said. "Here, you're in it from the git-go. This is a great job."

Many of his staff have been at the Lab a long time, giving him access to an extensive corporate history. "We don't have a lot of turnover, and everyone wears two or three hats," he pointed out. "They carry the history of the Lab and its facilities in their heads."

Sprouse made talking to other managers one of his first priorities, and continues to do so. "I ask them 'What do we do that's important to you?' I also want to know what we're doing well and what we can do better," he added. "Our job is all about customer service."

One of his primary focuses is to make managers more aware of progress on jobs that affect them and making sure his department is handling those tasks in a timely manner. To do that, he's working on new software that will make communication among departments easier, and a way to list on-going maintenance management so other managers can check status easily on the Intranet.

Not long after his arrival he got to work on the 10-year Strategic Facilities Plan. Now he's identifying the Lab's needs for the coming months, including planning for Hall D, 12 GeV upgrade facilities, Free Electron Laser additions, and their associated lab, office and computing space.

Like everyone else, Sprouse is mindful of energy crises across the country. He and his staff are working to improve some of the Lab's equipment to make it more energy efficient. Heating and cooling systems in office spaces, for instance, may be pre-set in the future so that the temperatures will be adjusted for stretches of time, such as weekends, when no one is in them. In addition, some of the Lab's air conditioning systems are as much as 35 years old and require upgrading.

Sprouse also arrived during the implementation of the new security system, called CANS or the Central Alarm Notification System, which integrates the fire alarms and entry system site-wide. The system has done away with key access, and the badge scanners ensure that only people with proper authorization and training are allowed into controlled areas. "CANS has greatly improved the Lab's safety controls," Sprouse said.

Rusty Sprouse reviews the CEBAF Center floorplan.

While he was in Charlotte, Sprouse spent most of his time away from home, returning only on weekends to be with wife, Nancy, and son Kevin, who attends York High School. Daughter Jenn attends Elon College in North Carolina. He didn't have much time for the leisure activities he enjoys, such as working in his yard, fishing, attending soccer games and going to the beach. But now that he's back in town — and the weather's getting warm — he's looking forward to his favorite pastimes.

Students write about African-American scientific contributions; vie for Lab externships at Black History Month essay contest

Six Newport News 11th graders have won paid, six-week externships at Jefferson Lab. The six youth were finalists in the Lab's African-Americans in Science Essay Contest.

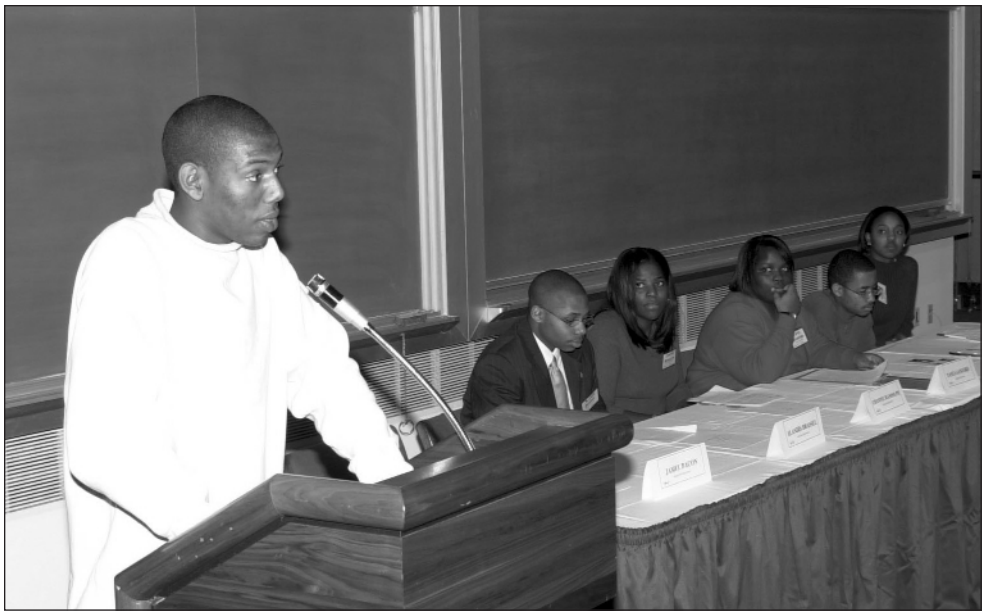
Winners are Jamel P. Bacon, Menchville High School; Alandis K. Brassel, Woodside High School; Chantel Randolph, Woodside High School; Tanya Sanford, Heritage High School; Reggie Stephens, Warwick High School; and Monne' Williams, Woodside High School.

The Lab as part of its Black History Month celebration sponsored the essay contest and oral presentation. The topic for the 500-word essay competition was a 20th century African-American who made a significant contribution to science and/or technology.

"There were so many scientific and technological achievements made by African-American scientists, doctors and inventors during the 1900s," points out Lisa Surles-Law, JLab Science Education specialist. "Hosting this essay contest helps make people more aware of the significant impact African-Americans have had on society and our quality of life."

"We also felt an essay contest was a great way to encourage students' interest in science and technology," she continued, "and to be supportive of the scientific aspirations of today's youth."

Each externship will include three weeks in two different departments at the Lab. Each student will have the opportunity to experience a technical environment and an administrative environment, according to Surles-Law. The externships will begin June 18, and each student will earn $1,680 for his or her work.



Jamel P. Bacon, Menchville High School, takes the podium as he begins the public speaking segment of Jefferson Lab's African-Americans in Science Essay Contest. Behind him sit the other five finalists in the competition. Sitting from left to right are Alandis K. Brassel, Woodside High School; Chantel Randolph, Woodside High School; Tanya Sanford, Heritage High School; Reggie Stephens, Warwick High School; and Monne' Williams, Woodside High School.

The six finalists visited Jefferson Lab Feb. 28 for a morning of activities; then that afternoon they orally presented their essays in the CEBAF Center auditorium before Lab staff and a panel of judges. Before presenting their papers, each student answered the question: What was the most compelling or interesting thing you learned about your scientist? Their answers ranged from inventions and passion for learning to their perseverance in the face of racial injustices.

The essays discussed the lives, challenges and achievements of:

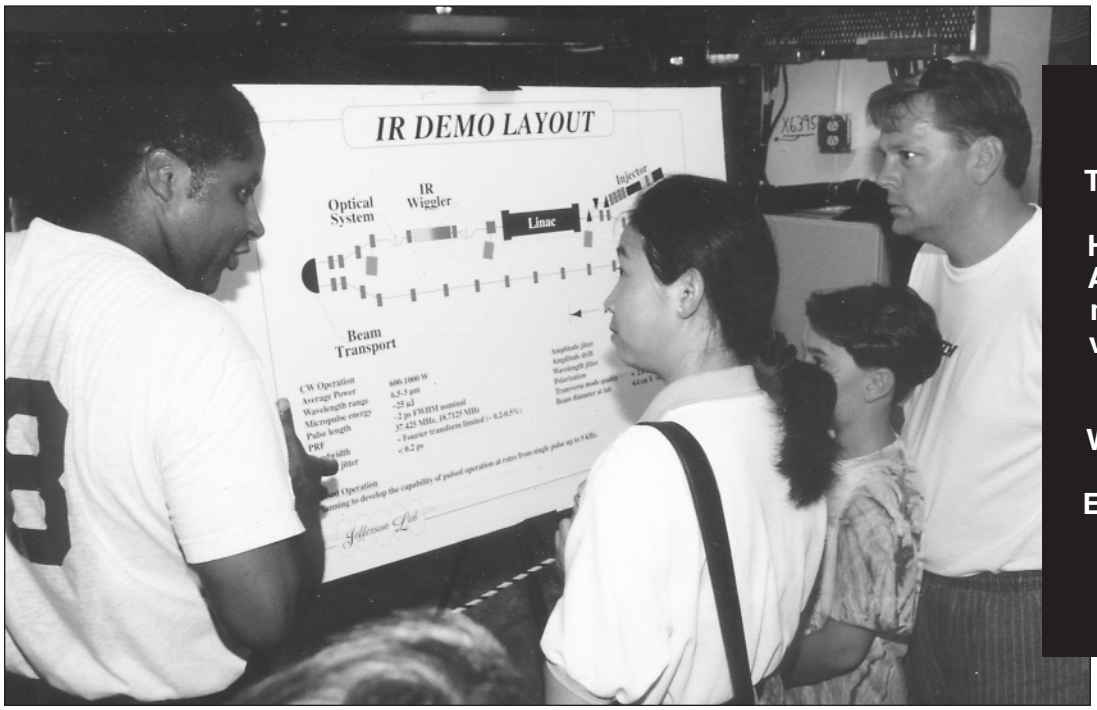
---Garrett Augustus Morgan, 1877-1963, businessman and inventor of America's first traffic light system.

---Dr. Charles Richard Drew, 1904-1950, was a leading authority in the field of blood preservation in the 1940s.

---Mae Carol Jemison, 1956-, became the first female African-American astronaut in 1992.

---Shirley Ann Jackson, 1946-, was the first African-American female to earn a doctorate, in 1973, in theoretical physics from Massachusetts Institute of Technology, and the first black woman to receive a doctorate in any field from MIT. She became a research associate in theoretical physics at Fermi National Accelerator Laboratory and served as an advisor to the Secretary of Energy and sat on the National Academy of Sciences and the Advisory Council of the Institute of Nuclear Power Operations. She earned the distinction of being names an American Physical Society Fellow.

---George Washington Carver, 1864-1943, became the first African-American to enroll at Iowa State College of Agriculture and Mechanical Arts, in 1891, where he later became the first black faculty member, because of his advances in plant hybridization work. He developed hundreds of products from peanuts, sweet potatoes, pecans and other southern crops.



Open House
The countdown is on for Jefferson Lab's Open House, set for Saturday, April 21. For more information about the event, visit the Open House Web page www.jlab.org/open-house/. Pictured here, Walter Lacy, Accelerator Division, explains Free Electron Laser operation to visitors at the 1999 Open House.

NASA Open House

Research center opens doors to public after JLab event

NASA's Langley Research Center will offer Hampton Roads the opportunity on Saturday, April 28 to see what goes on behind the gates at the Hampton research facility.

Nineteen locations will open their doors from 9 a.m.–4 p.m. to show visitors how Langley technologies are advancing air travel and space exploration and improving life for people everywhere.

The open house, called "Technology Leadership for the New Millennium," will showcase the latest NASA Langley breakthroughs with the help of exhibits and interactive displays.

In Building 1230, visitors will be involved in all sorts of interactive demonstrations, such as how to make a hologram, how infrared scanners can show temperatures of different parts of the body and how to see what's inside toys. The Nondestructive Evaluation Sciences Branch is setting up a paintball micrometeorite simulator using state-of-the-art acoustic emission inspection techniques. People will be able to shoot a paintball at a target, then see how acoustic sensors can detect where it lands. Across the street in the hangar, 10 aircraft are expected to be on display, including the B-757 Airborne Research Integrated Experiments System (ARIES) and three new general aviation planes that arrived this year.

The hangar will also feature a guest appearance from an aviation pioneer, 89-year-old Elinor Smith. Smith took her first airplane ride at age six in 1917 — the same year crews started building Langley's first structure. She soloed at 15 and became youngest licensed pilot in the U.S. when Orville Wright signed her flying license.

Two wind tunnels will be open as well as a machine shop, acoustics and structures and materials laboratories, simulators, atmospheric science facilities and crash and tire test buildings.

There will be activities just for children; and food and souvenirs will be for sale. For more information visit www.larc.nasa.gov/.

Ready, Set, Go!

Run-A-Round festivities near; plan to take part in annual event

Spring is here and that means it's time to pull out the shorts and dust off the sneakers! Yes, Jefferson Lab's 16th annual Run-A-Round is set for Thursday, May 10.

"This is the Lab's annual rite of spring," points out JLab Activities Group Chair Becky Nevarez. "What makes it a success is everyone's participation. We hope to see all of our staff, users, collaborators, family members and contractors join us for this event. Come out and run, jog, or just take a pleasant stroll."

Registration forms are being distributed across campus and extras are available at the VARC and CEBAF Center reception areas. Completed forms should be sent to Dennis Dobbins, MS 28B by May 4. Specifics about the registration process, race-course, age categories and awards are on the registration form.

All registered runners may pick up their race numbers in the CEBAF Center lobby between 11 a.m. and 3 p.m. on race day. Late registration is also available in CEBAF Center on race day, from 11 a.m.–2:30 p.m.

All registered finishers will receive the 2001 Jefferson Lab T-shirt. Three hundred thirty-five people voted for their favorite design during the T-shirt design contest held in March, according to Shannan Kyte, Electronic Media group. "That's a new high for T-shirt design voting participation," she said. The winning design will be unveiled before the race (approximately 3:15 p.m. in front of CEBAF Center).

The run/walk will kick off at 3:30 p.m. in front of CEBAF Center. Race results will be announced afterward in the field behind the Residence Facility, and awards will be presented, as soon as they have been tabulated.

As in past years, the Peninsula Track Club will oversee the run/walk. However, volunteers are needed to help with pre-registration, tracking racers' times, monitoring critical points along the race course, T-shirt distribution, and staffing the water stop at the half-way point and the water and fruit stop at the finish line.

Free refreshments and music will be available in the field behind the Residence Facility. Volunteers are also needed to help with food and drink service and with cleanup. Contact JAG member Tara Nelson at ext. 5306 or e-mail tnelson@jlab.org to volunteer.

Runners take off down Flag Alley, seconds after the 2000 Run-A-Round kicked off. More than 350 employees and guests registered for last year's fun run.

The Best for 2000

Small Business Award goes to Jones O. & Associates of Hampton

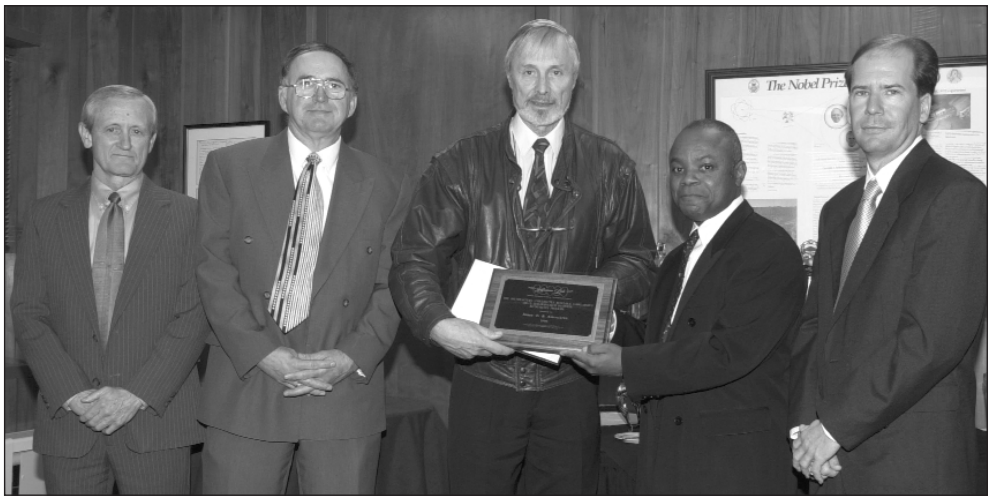
Jones O. & Associates, LLC, of Hampton, won Jefferson Lab's Outstanding Small Disadvantaged Business Subcontractor Award for fiscal year 2000.

Interim Lab Director Christoph Leemann presented company president Orlando Jones with the award, during a ceremony held March 19 at the Lab.

This marks the 10th year that the Lab has recognized a small disadvantaged business that has provided it with exceptional service during the previous fiscal year. The recipient is chosen by a Lab committee from a range of candidates, according to Danny Lloyd, JLab's Purchasing and Small Business Manager.

Under a blanket purchase agreement established in 1998, Jones O. & Associates Staffing and Professional Services has provided the Lab a variety of temporary workers, ranging from clerks and secretaries to electronics technicians and telecommunications experts.

"They've worked diligently to meet our short-notice, temporary staffing needs," Leemann pointed out. "The company has been very responsive and has always striven to meet our requirements. In fact, we've been so impressed with some of the workers that Jones O. & Associates has sent us that we've hired them as Lab employees."



Posing for a photo after presenting Jefferson Lab's Small Disadvantaged Business Subcontractor award are (left to right) Ross Small, Lab Subcontracts manager; Danny Lloyd, Lab Purchasing and Small Business manager; Interim Lab Director Christoph Leemann; Orlando Jones, president of Jones O. & Associates; and Wayne Skinner, DOE Site Office contracting officer.

EM Electronic Media

The newly formed Electronic Media (EM) group is now serving Jefferson Lab. They offer a range of services including Web design, graphics design, photography, and video support. Visit their Web page at www.jlab.org/em/ to find out more about the services they offer and the creative expertise they can provide. They say, "Come to us, we'll solve your creative problems." The Lab's Electronic Media staff includes (left to right) Greg Adams, Chris Schiel, Shannan Kyte, Zopalla Brown, Collin Cusce, and Kondo Litchmore. The complete staff listing is available at www.jlab.org/em/staff.html/.

Briefs

Lab sponsors Housing Partnership Day in memory of Bill Kozma

Jefferson Lab is sponsoring a Housing Partnership Work Day in memory of Bill Kozma. Lab staff, family members, users, contractors and friends are invited to volunteer their services for the day — Saturday, May 5, roughly from 9 a.m.–4 p.m. to work a Housing Partnership project in the York County area.

Bill's wife, Judy, is planning to attend. Anyone interested in participating may sign the volunteer list on Linda Ware's office door (room B209 in CEBAF Center). "Let me know if you have any specific skills, such as carpentry or electrical. The project given to us will be based on our capabilities," Ware explained. "Even if you don't have any skills, you can help with nontechnical jobs, like painting."

Bill Kozma was a Lab staff member from 1989 until his death in October of last year. He was the Accelerator Division's Operations Support manager. He succumbed to multi-system organ failure after a heart transplant at Duke University Hospital. The autopsy determined that Bill had been afflicted with a condition known as primary amyloidosis, a disease caused by the abnormal accumulation of protein molecules in body tissues.

Kozma did extensive community-service volunteer work. He was a Chair on the Housing Partnerships, Inc., Board of Directors and an active volunteer. The Housing Partnership is a non-profit organization that assists elderly, low-income people with home repairs.

ODU hosts women in engineering day

More than 300 engineers, university professors, teachers, and students from middle school to college will gather to discuss the underrepresentation of women in engineering and to work on solutions to this problem Saturday, April 21 at Old Dominion University. ODU's inaugural WOMENGINEERS Day is being hosted by the College of Engineering and Technology.

The day-long event, held on Old Dominion's Norfolk, Va., campus, will feature information, support systems and networking opportunities for women entering or already working in the engineering field, including scholarship and financial aid opportunities, career and job information, materials and support for teachers of aspiring engineers and panel discussions on various issues facing women in engineering.

WOMENGINEERS Day is free and open to the public. Reservations are requested and can be made by e-mail at womengin@odu.edu. For more information, call (757)683-3789 or visit the WOMENGINEERS Web site at web.odu.edu/engr/womengineers/.

Relay for Life: Join in fight against cancer

Help win the fight against cancer by participating in this summer's Relay for Life, urges Sue Ewing, from JLab's Director's Office.

This annual event, slated for June 8-9 at Todd Stadium in Newport News, is the signature fundraiser for the American Cancer Society. Last year $168 million was raised for cancer research through Relay for Life events held across the country. All money raised during these events goes to research, according to Ewing.

The Relay is dedicated to cancer survivors and the hope of someday finding a cure for cancer.

Ewing and Linda Ware, Public Affairs manager, are organizing individuals forming the JLab team participating in this event. Team members take turns walking or running on the track throughout this overnight event, and when they're not on the track they're supporting their team members, camping out on the surrounding grounds and enjoying music, games and picnics.

To help, Ewing suggests:

---Buy a $5 raffle ticket for a PT Cruiser at the CEBAF Center Front Desk or from Ewing, ext. 6363, or Ware, ext.7689.

---Put a donation into the American Cancer Society collection boxes located at the CEBAF Center Front Desk and in the cafeteria, or give the donation to Ewing or Ware. Checks may be made out to the American Cancer Society.

---Buy a Luminaria in honor of family and friends who are fighting or have fought cancer. The Luminaria will be lit in a ceremony after the sun goes down at Todd Stadium. These can be purchased at the CEBAF Center Front Desk or from Ewing or Ware.

"This is no ordinary track meet," comments Ewing. "Relay for Life gives us a way to help the American Cancer Society continue its battle against a disease that has touched many lives at Jefferson Lab."

For more information, visit the American Cancer Society Web page at www.cancer.org/.

Lab finalizes schedule for annual Take Our Children to Work Day

All parents at Jefferson Lab are invited to bring their school-age children to spend the day with them at work on Thursday, April 26. It is Jefferson Lab's Take Our Children to Work Day in honor of National Take Our Daughters to Work Day.

Your children can explore the ins and outs of your job, at your side, from 8 a.m.-2 p.m., according to Jan Tyler, Science Education Program manager. Then at 2 p.m. all children are invited to embark on a three-hour adventure through the world of marine biology in the CEBAF Center auditorium. The IMAX film "Dolphin" will be shown and games based on the movie will be played afterward.

Snacks and door prizes are planned for the afternoon. No registration is required. For more information call Tyler at ext. 7164.

Milestones
for February 2001

Hello

Gordon R. Baker, Mechanical Designer, Accelerator Division

Kevin B. Beard, Physics RF Staff Scientist, Accelerator Division

Cliff Burden, Accelerator Technician-SRF, Accelerator Division

Gianluigi Ciovati, Accelerator Engineer, Accelerator Division

Kari A. Heffner, Database Programmer/Analyst, Physics Division

Walter H. Kellner, Hall C Installation Coordinator, Physics Division

Yves R. Roblin, Beam Physics Software Scientist, Accelerator Division

Noel C. Vermeire, Staff Services Specialist, Administration Division

Goodbye

Earl Adcock, Mechanical Designer, Accelerator Division

Richard Brown, Senior Design Associate, Accelerator Division, retired

Mark E. Davis, MIS Manager, Physics Division

Michael C. Johnson, CLAS Computer Scientist, Physics Division

Reza Kazimi, Accelerator Scientist, Accelerator Division

Valeri A. Lebedev, Accelerator Physicist, Accelerator Division

William D. Walker, Network Coordinator, Physics Division

for March 2001

Hello

Mary A. Antonioli, Hall B Electronics Technician, Physics Division

Swapan Chattopadhyay, Associate Director for the Accelerator Division

Carol Kinsey-O'Neal, Travel Supervisor, Administration Division

Kim M. Laracuente, Staff Secretary, Accelerator Division

Chad E. Seaton, Accelerator Technician, Accelerator Division

Ann-Marie Valente, Accelerator Physicist-SRF, Accelerator Division

Haipeng Wang, Accelerator Engineer-RF Structure, Accelerator Division

Goodbye

Tim L. Fox, RF Systems Technical Associate, Accelerator Division

Denise A. Roberts, Electrical Fabrication Technician, Accelerator Division

Congratulations

Eric Hanson, Associate Coordinator (Accelerator Division Safety staff member & Accelerator Site Safety Warden), has successfully completed the Occupational Safety Certificate Program at Old Dominion University. He received his certificate in March.

"Milestones" highlights the achievements of JLab staff and users, full-time and term new hires, separations and retirements. To submit staff or users' promotions, special honors and awards send information to magaldi@jlab.org or call ext. 5102.

Update

And the winner is . . .

Thad Seeberger, Accelerator Division (right), placed an electronic order on April 6 that took the JLab Intranet Commerce Package over the $1 million sales mark. Seeberger had ordered a storage bin from Allied Electronics, one of the newer vendors on the Electronic stockroom catalogue. Here he accepts his "$1 million customer prize" from Stockroom Manager, Bill Brisiel.

At a Glance

Calendar of JLab activities and events

April 21: JLab Open House. See page 9 or www.jlab.org for details.
April 21: ODU Women in Engineering day. See page 14 for details.
April 23: DMV mobile unit visits Lab.
April 26: Take Our Children to Work Day. See page 14 for details.
April 28: NASA Open House. See page 9 for details.
April 28 – May 1: American Physical Society (APS) Spring Meeting in Washington, D.C.
May 1: Application deadline for the 2001 National Nuclear Physics Summer School.
May 5: Jefferson Lab sponsors a Housing Partnership Work Day in memory of Bill Kozma. See page 14 for details.
May 10: Run-A-Round. See page 10.
May 17: Red Cross Blood Drive.
May 21: DMV mobile unit visits Lab.
June 8–9: American Cancer Society's annual Relay For Life at Todd Stadium, NN. See page 14 for details.
June 21–22: Annual JLab User Group meeting, at JLab. As part of this meeting, there will be two non-concurrent workshops: Parity-Violating Electron Scattering (organized by Dave Mack and Mark Jones) and Searches for Exotic Mesons (organized by Gary Adams and Haiyan Gao). Winner of annual SURA/CEBAF Thesis prize to be announced.
June 25: DMV mobile unit visits Lab.
July 23: DMV mobile unit visits Lab.
July 27: Lab picnic – Summer Luau.
Aug. 27: DMV mobile unit visits Lab.
Sept. 16–21: 9th International Conference on the Structure of Baryons at Jefferson Lab. Note that the date has been changed from a previous announcement to avoid conflicts with other meetings.

To add an event or activity to the calendar, e-mail magaldi@jlab.org. For additional information, or the most current "At a Glance" calendar, visit the JLab news Web page www.jlab.org/news/.

ON TARGET

On Target is published by the Thomas Jefferson National Accelerator Facility, a national nuclear physics research laboratory in Newport News, VA, operated by the Southeastern Universities Research Association for the U.S. Department of Energy. News items are published on a space-available basis and are subject to editing. Submit news items to the Jefferson Lab Public Affairs Office, MS12C, 12000 Jefferson Avenue, Newport News, VA 23606.

Editors
Linda Ware
Debbie Magaldi

Contributing Writer
James Schultz

Photographer
Greg Adams

Jefferson Lab/MS 12C
12000 Jefferson Avenue
Newport News, VA 23606