

ON TARGET

THOMAS JEFFERSON NATIONAL ACCELERATOR FACILITY • A DEPARTMENT OF ENERGY FACILITY

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with JLab, VMEC collaboration

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group works to meet researcher's needs

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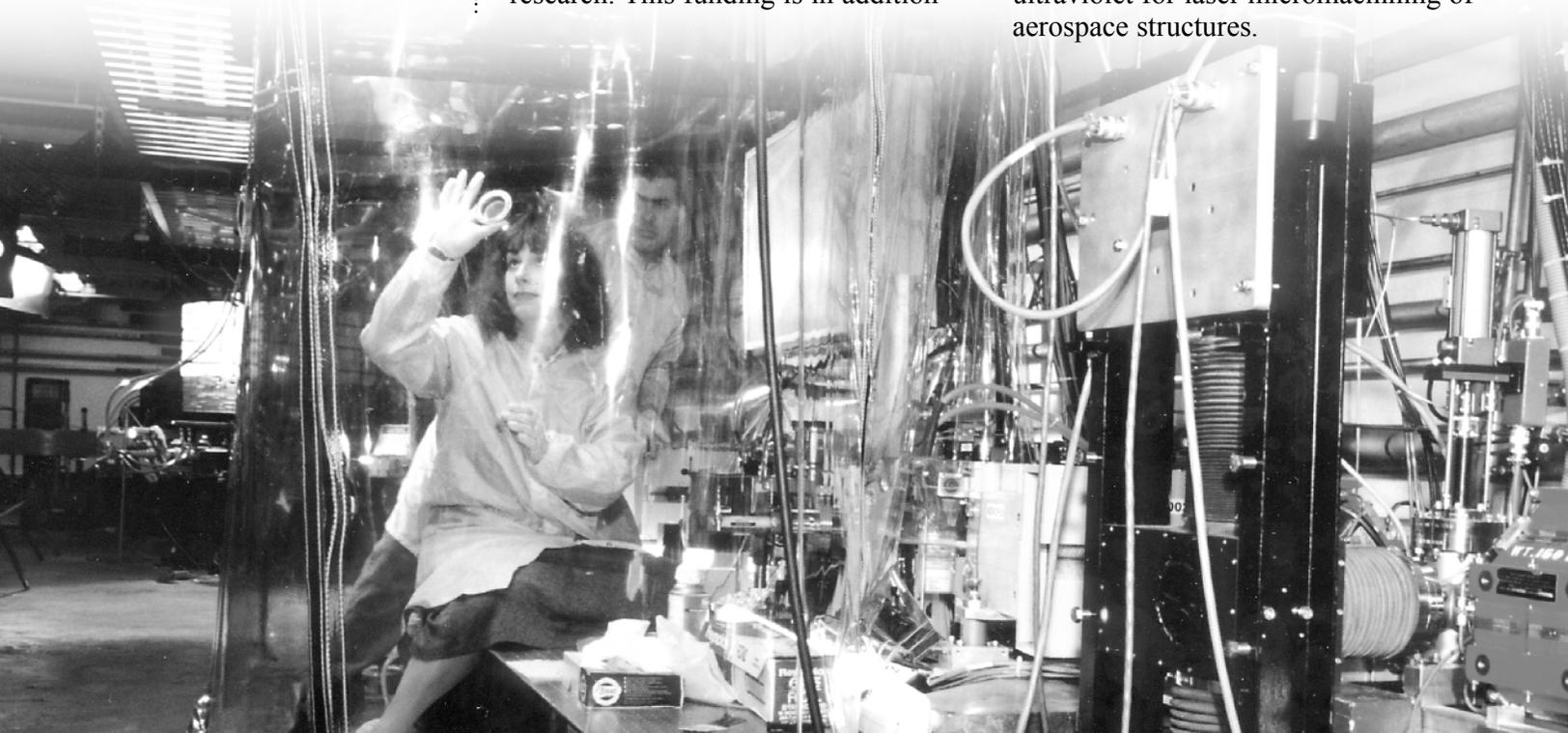
FEL awarded \$400,000 research grant

The Department of Defense has announced a \$400,000 award for FY2001 for the Jefferson Lab's Free Electron Laser. These funds were awarded by the High Energy Laser Joint Technology Office, a new organization formed in June 2000 to manage a DoD-wide program to revitalize high-energy-laser science and technology. A highly competitive review of 56 proposals resulted in the selection of 19 proposals for funding of which Jefferson Lab is one.

The \$400,000 award will be used to further explore the understanding of the interaction of high power laser light and matter on ultrafast time scales. George Neil and Michelle, both of the FEL group, submitted the proposal and will oversee the research. This funding is in addition

to \$9.3M DoD funding in FY2001 and \$4.5M in FY2002.

The Free Electron Laser Demo project (\$25M total) was funded by the Department of the Navy, the Department of Energy (Nuclear Physics program contributed \$6M for injector and cryomodule development), and the Commonwealth of Virginia. Industries, universities and the City of Newport News provided additional supported. The success of the kilowatt demonstration FEL in 1999 lead to additional funding in FY2000-FY2001 for an upgrade of the FEL to produce more than 10,000 watts of infrared light and kilowatt levels of ultraviolet. The Department of Defense is interested in tunable lasers in the infrared range for potential defense applications and in the ultraviolet for laser micromachining of aerospace structures.



Friends of JLab

Big partnership opens vistas in ultra-small technology

by James Schultz

It's a prospect that might astonish even devotees of the "Star Trek" entertainment franchise: atom-scale machines that do everything from maintaining human health to creating food and basic materials from scratch. Applications of "nano" technology — a nanometer is one billionth of a meter: roughly, the diameter of 10 atoms — are now being considered, and a number of projects undertaken to make practical the stuff of science fiction.

A significant step toward ultraminaturization could be taken as the result of a collaboration between Jefferson Lab and the Virginia Microelectronics Center (VMC), located at Virginia Commonwealth University (VCU) in Richmond. As one of the most visible elements of the Virginia Microelectronics Consortium, the VMC has been equipped with state-of-the-art equipment, thanks to chip maker Motorola, which originally intended to open a microchip fabrication and opening a facility in suburban Richmond.

Now the VMC hopes to press further across the frontiers of microchip design. In a collaboration with JLab, VCU hopes to improve microelectronics fabrication with equipment available only at the Lab. Other nanofabrication projects are also under consideration.

"We're at the beginning stages of developing projects with JLab," says Robert Mattauch, VCU engineering dean. "The scientific staff there is fantastic. The facilities are like none other in this country — or the world. It offers us something that is truly exceptional."

In particular, the VMC is interested in the upgrade to the Lab's free-electron laser, or FEL. As part of the FEL's increased capability, JLab will be incorporating a stepper/aligner, a specialized optics device the Lab is slated to receive from the Naval Research Lab. In concert with other instrumentation and the installation of an X-ray source, the stepper/aligner should allow for very fine etching of microcircuitry: what experts call nanometer lithography. Together with the VMC, JLab is applying for a 2-year, \$4 million grant

that would enable nanometer lithography to routinely take place within the new FEL facilities.

"VCU has set up a research lab in microelectronics," says FEL program manager Fred Dylla. "We have the missing piece — a state-of-the-art tool that allows much better high-resolution lithography with X-rays. It's a natural partnership."

Unique Facilities, Unique Opportunity

Five of the state's engineering schools — the University of Virginia, Virginia Tech, Old Dominion University, George Mason University, and VCU — as well as the applied science programs at William and Mary College, James Madison University, and the Virginia Community College System have all joined forces to create the first statewide microelectronics research consortium. VMEC aims to facilitate industry-academic partnerships to help bolster Virginia's nascent microelectronics industry by providing instructional, training, and research programs in microelectronics and semiconductor technology with a strong fabrication emphasis. Its constituent campuses are slated to be linked by satellite TV, compressed video, and a proposed wide-bandwidth, optical-fiber network.

As the density of integrated circuits rises, with a corresponding decrease in feature size, and as the industry shifts to large wafer sizes, the complexity of microelectronic fabrication processes is expected to create demand for an ever more highly educated and trained workforce. That's why consortium universities are taking an interdisciplinary approach to education. Coursework includes traditional engineering fields such as electrical, chemical, computer science, systems and materials, as well as new areas such as electronic materials synthesis and processing, manufacturing and assembly, and the interaction between technology and commerce.

"The world has a huge appetite for semiconductors. We live in a microelectronics age," Dylla says. "But the business is very cyclic and has been for 30 years. That's why we need to look at the long term."



Robert Mattauch
VCU Engineering Dean

The VMC facility on the VCU campus has two cleanroom areas encompassing approximately 7,500 square feet. The Center has ultra-clean water for chemical processing, waste water neutralization, a specialized exhaust system, hazardous gas monitoring, and a liquid nitrogen distribution system for cooling equipment. One cleanroom is focused on research in new materials and devices.

Micro and nano-scale manufacturing of mechanical devices is emerging as a rapid growth market in such areas as biotechnology. Much of the same equipment used to process semiconductor wafers can be used to fabricate micro-electro-mechanical devices, or MEMs.

Biomedical engineers are already producing miniature components for use in their research, with the spinoffs of future collaborations anticipated to have large economic effect. VCU engineering dean Mattauch believes its partnership with the Lab could likewise eventually produce economically viable products. "We view our proximity to such a facility as JLab as a godsend. It represents a unique opportunity," he says. "One day [JLab expertise] may help us create structure at the atomic or molecular level. It opens up entirely new vistas in microelectronics: at first, in research, but ultimately in new approaches to fabrication and new devices."

Card catalogs, out; Web searches, in

Information Resources works to meet 21st century needs

Gone are the days when Jefferson Lab's Library alone could serve the information needs of the Lab. As the staff has grown, and the number of users and students increased, so have the information needs of these customers.

The Administration Division recently unveiled an expanded Information Resources group to meet these growing needs. IR now includes Library Services, Records Management and Publications Management and boasts a staff of two fulltime and one halftime professionals, one technician, and one student.

The Library's evolution into Information Resources happened gradually over the last couple years, according to Elois Morgan, IR Manager, and will culminate in the next two-to-three months. "The changes will greatly enhance information management at the Lab," Morgan explained, "and improve our customer service capabilities. The transformation came about due to the needs identified by JLab's Library Committee and their shared vision with the Library staff."

"Up until a few years ago most of us thought of tackling information research in terms of going to the library," Morgan continued. "Now we can use our desktop [computer] as the single point of access for many information and research needs, and for our records and publications management needs as well. IR has responded to that shift and has a growing array of services, publications and forms available from our Web page." (www.jlab.org/IR)

Library Services includes the Lab's Library in the ARC, as well as a number of computerized catalog, reference and research capabilities available through the Library Services Web page. The Online Patron Access Catalog (the "search online catalog" link on the Library Services page) allows anyone to search the Lab's Library and a number of other



Elois Morgan, IR Manager (left), and Kim Kindrew, Technical Information Specialist, check out the new IR Web page.

libraries for information. This virtual library uses a Web-based search system called Voyager to perform a variety of heading, author, title and subject searches, and is linked to premium scientific and technical databases offering the world's best research literature. In addition, the Library Web page provides access to all of the Lab's document and database collections and allows customers to request book loans from other libraries.

The Records Management staff establishes standards, procedures and guidelines for the systematic control and maintenance of all records composed, produced or used within each division at the Lab. Most types of papers, documents and records generated at the Lab must be reviewed and a decision is made to save, archive or discard each type of paper. These decisions are necessary to support the legal, fiscal, administrative and research needs of the Lab, SURA, the state and federal governments and the public.

The newest addition to Information Resources is Publications Management (the "Laboratory Publications" link on the IR Web page). This section is designed to assist authors at the Lab in getting their research or technical papers reviewed and published. "We are currently working to bring the paper review process online," Morgan

explained. In the near future, Lab authors will fill out a computer-based *Professional Publication Clearance Form* and their paper will be pulled down over the Internet for peer review.

"We're really excited about Publications Management," Morgan emphasized. "We're better able to assist authors now, and increase the visibility of the Lab by tracking professional paper publication and ensuring that they are distributed through the most appropriate sources. This is a high priority for us. After all, publications are a reflection of the magnitude of research done at the Lab."

Morgan is delighted with the development of Information Resources, and she's grateful for the cohesive teamwork between the IR staff and the Library Committee. "Former committee chair Kees de Jager and current chair Michelle Shinn and the committee members did a great job advising us on the technical and professional needs of the Lab's staff and users," she commented. "They made proposals and provided subject-matter expertise for ordering books and materials. Their support made it possible for our capabilities and services to grow."

Editor's note: Watch for a follow-on article highlighting Publications Management.

Caccetta, HR&S director

Takes 'human' part of her job title very seriously

by Ruth M. Bizot

JLab's new Human Resources & Services Director never sweats the small stuff. "I know that very few things are truly life and death," explains Kelly Caccetta, formerly HR Manager at Gateway, who joined the Lab staff last June. She spent nine years as an emergency room nurse before entering the human resources field.

As a career move, it made all kinds of sense, she says. "When I look at my background, I've taught high school, I'm a nurse and now in human resources — the common thread is people, taking care of people," she explains. "All I did was change the settings and how I do it."

Caccetta takes the "human" part of her job title very seriously. Her first day on the job, she asked who her key customers were — and got back a list with 67 names on it. Within a month, she had met individually and at length with every one of those key people. "I asked them three things," she says. "What HR was not doing that they wanted done. What their needs were. And what HR was doing right that they didn't want to change."

In those same first weeks, she also fit in nearly two dozen individual meetings with the members of her own HR&S staff. "The first thing I did was ask them what they needed in a leader and what they thought made up a team."

Becoming part of the team at JLab, with its atmosphere of science and research, was a conscious choice for Caccetta. "Coming from industry, I was tired of counting widgets," she explains. "The concept of focusing, not on widgets, but on impacts and potential intrigued me."

The Lab made an impression on her from the very first. "The science here is phenomenal," she says. "To realize the talent and education of the people here was just incredible. It was a humbling experience."

Caccetta in turn has already begun making an impression on the Lab. She's restructured her own department to improve customer service to the rest

of the Lab. "There's now a designated employment administrator for each division," she points out, "who can focus on the specific needs of their division for recruiting purposes. They'll know their customer."

Other changes are also underway. "We've just hired an HR information systems person," she says. "We're going to consolidate into one database all of the statistical information of the workforce. That's a huge addition for us." Increasing the department's statistical analysis capabilities, she points out, benefits not just HR but the Lab as a whole. "With numerous DOE requests and reviews, we'll have statistics available for the Lab. We'll be able to track trends and dig deeper into root causes. It helps in diversity. It helps our recruiting efforts."

That's crucial, she explains, in today's ever-tightening job market. "Recruitment has become tougher because of industry competition," says Caccetta. "And it's going to become more so. We've had to move from newspaper to high-level Internet recruiting. We've had to start recruiting in college instead of waiting till they've graduated."

In many ways, Caccetta says, the Lab is at a turning point. "The Lab is out of its startup stage and into a maturing state. When you get past that start-up period, the processes are different and the needs are different."

Her own strengths, she believes, make her a good fit for the Lab at this

stage of its growth. "Scientists are 'why' people," says Caccetta. "I'm not a scientist, but it's my character to always ask 'why.' I can look at a process and ask 'why do we do it that way?' If there's a reasonable explanation, I can accept that, but 'because we've always done it that way' isn't good enough."

Looking ahead, Caccetta has set her sights on several target areas. She'd like to improve the performance appraisal process. She'd like to develop succession-planning programs. "The Lab's only one deep in some crucial areas," she explains. "We need to identify the people with the right skills and then get them the experience they need to step up to that next job."

She'd like to boost management training efforts. "We need to provide supervisors and managers with the tools they need to understand and deal with people," Caccetta says. "That's everything from interview skills to how to lead people toward a strategic vision."

It's that vision; after all, that holds together an organization as diverse and complex as Jefferson Lab. From a human resources standpoint, Caccetta recognizes that support services are supposed to be just that, supportive. "I hope that much of what I do is transparent to the Lab," she explains. "Then I know the processes we've put in place are allowing people to continue their science instead of being obstacles to them."



Kelly Caccetta, JLab's new HR&S Director, pauses just long enough for a photo.

In their own words

Christine Snetter discusses her work as JLab's project architect

Interview by Judi Tull

You've seen me around, and perhaps wondered just what I'm doing, standing in your hallway, looking up at the ceiling or the walls. Sometimes you've even asked if you can help me find my way, thinking that I'm a stranger lost in the building. But what I'm usually up to is measuring something, or considering how the space you're working in will be modified to better suit your needs.

I am Jefferson Lab's only Project Architect. I've been here since 1993, and I work with the Plant Engineering Department on the construction of new buildings and modifications to existing buildings. Sometimes I oversee construction management, and I'm also in charge of the life safety code evaluation for the buildings on site. This means that when asked, I make sure the design, operation and maintenance of buildings meet the Building and Life Safety Codes' minimum requirements that collectively help to ensure your safety from fires and similar emergencies.

Some of the projects I've been involved with include the design and construction of the Free Electron Laser (FEL) User Facility and working with representatives from the City of Newport News on space planning for the Applied Research Center. I've also overseen the installation of acoustic controls in the ARC conference room, carpet installation site wide, design and modification of a trailer for the RadCon Group, design of the Test Lab addition, and the code evaluation for the FEL addition project. I'm involved with all projects, large and small, that involve architectural design and construction.

My home in the Kiln Creek section of Newport News is a long way from my birthplace in Monrovia, the capital city of Liberia in West Africa. I am the next-to-last of 11 children and after being educated at Catholic elementary and high schools I came to the United States to go to college. I graduated



Christine Snetter examines carpet samples and paint swatches for possible use in Jefferson Lab office space.

from Howard University with a Bachelor of Architecture degree, and I became a registered, licensed architect after passing the rigorous nine-part exam. I returned to Liberia for a couple of years, then came back to the States in 1980.

Before coming to JLab, I worked for several architectural and design firms in Washington, D.C., and Maryland. I worked on a number of large residential and commercial projects located in Maryland and northern Virginia. One of my largest jobs prior to coming to the Lab was as the project architect for JLab's accelerator enclosure, experimental halls and CEBAF Center, which is how I became familiar with the Lab.

My transition to living in America was not as abrupt as some might think, although I found the pace of life here much faster. Since English is my native language, that wasn't a problem. And being a student gave me the opportunity to meet people and make new

friends. Some of my family live in Liberia. Three sisters and a brother live in North Carolina and another brother lives in Baltimore, MD. My daughter goes to medical school in Philadelphia, where she lives with her husband and daughter.

The best part about my job is being able to satisfy your needs for your physical surroundings. I deal with a diverse group of people, all with different styles of communicating, so I've learned to be a good listener and to interpret your comments into a design that I feel professionally good about and one that will serve your purposes. There's always something going on in my department; there's never a dull day.

When I'm not here, I work out and do volunteer work with my church, Bethel Temple of God on Todds Lane. I belong to a group called Helping Hands, which helps people going through difficult times. I've also been involved with the Big Brother/Big Sister program for the past four years.

JAG update

New committee seeks additional volunteers, plans 2001 calendar

The Jefferson Lab Activities Group (JAG) is planning its 2001 recreational activities and events calendar, according to Becky Nevarez, the committee's new chair.

"We're planning many of the Lab's traditional events and we're always looking for suggestions from employees and users for new activities," she said. "We had a great calendar of events for 2000 and some of the highest-ever levels of participation. We're working toward the same goal this year."

"I want to thank all of last year's JAG members, especially the outgoing JAG members and chair Susan Esp, and our many volunteers," Nevarez continued. "They did a huge amount of work planning and preparing for the Spring Arts Festival, the Summer Luau, Hermann's Farewell & Fall Fest, the Children's and Adult Holiday Parties and the many other JAG activities."

Thank you to outgoing committee members:

2001 JAG Committee

<u>Member</u>	<u>Area</u>	<u>MS</u>	<u>Ext.</u>
Becky Nevarez, chair,	RadCon	52A	7236
Sandy Philpott, treasurer	Trailer City	16A	7152
Shauna Cannella, secretary	CEBAF Center	12B	6388
Steve Hickson	Trailer City	16B	7038
Dave Kausch	VARC	28G	7674
Bret Lewis	Test Lab	58	6254
Tara Nelson	MCC	85	5306
Lee Ann Sironen	CEBAF Center	12D	7527

Susan Esp, Trailer City - Chair
Betty Beeler, VARC - Archivist
Jacqueline Bacon, Director's Office
Richard Dickson, MCC
Kelly Hanifan, ARC

"We currently have only two new volunteers — Tara Nelson and Lee Ann Sironen — moving into outgoing members' vacancies," Nevarez pointed out. "The committee could really use three more members." Anyone interested in becoming a JAG member may contact Nevarez for more information. The JAG sponsors activities and

events ranging from the annual holiday parties and special outings to team sports and special interest clubs.

Upcoming activities include a Whale Watching Trip in February. Lab employees and their families and users have until Feb. 8 to sign up for a day ski trip to Wintergreen on Feb. 25. A Spring Arts Festival is set for Friday, March 30.

For more information about upcoming JAG events, check the events calendar on the JAG Web page at www.jlab.org/intralab/committees/jag/calendar.html.

Join the contest!

JAG seeks design entries for Run-A-Round T-shirt

The race is on to create the winning design for Jefferson Lab's 2001 T-shirt contest. "Let the creative ideas flow," urges Becky Nevarez, new chair of the Jefferson Lab Activities Group (JAG). "We're looking for everyone's input — employees, users, even contractors are invited to take part in this annual activity."

The T-shirt contest culminates with the Lab's annual Run-A-Round, which will take place in May.

"There are a few contest rules that must be followed," Nevarez reminds everyone interested in submitting a

design. All entries must be original artwork, obey U.S. copyright laws, and be submitted in color on 8 1/2" x 11" paper. Submission designs should include both a front (pocket) and back design, and include the words "Jefferson Lab", "DOE", "SURA" and "2001". Each entry must be submitted with the designer(s) name(s), division and telephone number. The winning design will be unveiled at the Run-A-Round and the designer(s) will receive a free T-shirt and recognition.

The winning design will become the property of SURA/JLab, and may be subject to slight changes to suit

screen-printing limitations. Individuals are welcome to resubmit previous non-winning designs.

Designs must be submitted to Becky Nevarez, Bldg. 52B, room 4, MS52A, by Feb. 28. Anyone with questions may e-mail nevarez@jlab.org or call ext. 7236.

Entries will be posted on the JAG Web page (www.jlab.org/intralab/committees/jag/) and Lab-wide voting (one person, one vote) for the next T-shirt design will take place March 2 – 16. If computer access is unavailable see or call Becky Nevarez for assistance with voting.

Milestones for December 2000

Hello

Sarah P. Freeman, User Liaison
Secretary, Physics Division

Kenneth A. Johnson, HRIS
Administrator, Administration
Division

Douglas A. Kieper, Detector
Specialist, Physics Division

Zafer Kursun, Accelerator Operator,
Accelerator Division

Theodore L. Larrieu, Control System
Computer Scientist, Accelerator
Division

Timothy M. Rothgeb, Accelerator
Engineer (Prototyping), Accelerator
Division

Promotion

Sandy Prior, Accelerator Division, was notified recently of her promotion to colonel (O-6) in the U.S. Army Reserve, effective May 20. Prior is a

mobilization augmentee with the Center for Health Promotion and Preventive Medicine in Maryland. She earned the promotion to colonel her first time before the O-6 promotion board. Only about one percent of all eligible officers attain the rank of O-6.

"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.

Watch for Feb. 1 pay checks, DD slips in mail

Lab employees are reminded that all Feb. 1 pay checks and direct deposit advice slips will be delivered to each person's mailing address through the U.S. Postal Service.

This is an effort to streamline the payment function and reduce Lab-wide staff effort in distributing the semi-monthly payroll checks and direct deposit advice slips, according to Mark Waite, Director of Business Services.

Individuals should normally receive their paycheck or direct deposit slip on the same day they received it when it was hand delivered at the Lab. However, the U.S. Postal Service does not guarantee delivery on a particular date, so Business Services strongly encourages staff who still receive their semi-monthly paycheck via a Laboratory-issued check to change to direct deposit. This will help to ensure timely receipt of these funds, advises Waite, and eliminates the possibility of a delay in access to funds due to re-issuing a lost check, and reduces the Lab's cost of issuing checks.

Direct deposit request forms can be obtained in the VARC, room 18, the Benefits area of Human Resources, or pulled down from the Lab's Web page at http://www.jlab.org/div_dept/admin/HR/forms/dir_deposit.pdf.

Contact Maureen Davis, ext. 7503 (e-mail mdavis@jlab.org), or Sharon Hay, ext. 7620 (e-mail shay@jlab.org), to make address changes or if you have questions regarding this change.

Education Update

Take Our Children to Work Day planned, Spring Science Series dates set

---**Jefferson Lab's Take Our Children to Work Day**, set for Thursday, April 26, will be a parent-hosted event this year.

Parents are welcome to bring their daughters and sons to JLab to see and experience their individual work environments, in honor of the National Organization of Women's annual Take Our Daughters to Work Day. The Science Education staff will provide snacks in the CEBAF Center Lobby at 2:30 that afternoon, followed by the showing of a children's video in the auditorium at 3 p.m. A formal schedule of events isn't planned this year because the date falls so close to the Lab's open house, set for Saturday, April 21.

A group (parent and child) photo will be taken just before the movie.

---**The Lab's Spring Science Series** kicks off Tuesday Feb. 13 at 7 p.m. in

the CEBAF Center auditorium. Guest speaker Marilyn Sanders will discuss animal behavior. Then on Tuesday, March 13, Paul Cummings, from the Newport News Public School System, will explain the science behind television. Each program lasts approximately one hour and includes a questions & answer period at the end. Science Series events are free and open to students and adults interested in science.

---Science Education staff shared **BEAMS (Becoming Enthusiastic About Math and Science)** activities with more than 100 teachers from across the nation last fall. Education Manager Jan Tyler and her staff attended National Science Teacher Association meetings in Baltimore, Md., and Milwaukee, Wis. They presented several BEAMS activities and passed out copies of their lesson plans

and student worksheets. "The responses we've received from the two trips have been fantastic," comments Tyler. "Many of the teachers went back to their classrooms and shared the BEAMS activities with their students. We've received a lot of great feedback on the activities we shared with them."

---**Congratulations go out to the Science Education staff.** Their Web page "Who Wants to Win \$1 Million: The Science Game" earned special recognition from the Department of Energy's Web Council in November. The council featured <http://education.jlab.org/million/> on DOE's KID-ZONE Web page. The council complimented JLab's Education Web page for setting "high standards for consumer value and widespread public appeal," and its "outstanding content, relevance and design."

Pager distribution nears completion

Instructions available on JLab Web page

New pager distribution is nearing completion, according to Dawn McGinnis, telecommunications administrator. "If you have not already exchanged your TSR pager for a Metrocall pager, please see me," she asks.

McGinnis is in room 194, Trailer City, and can be reached at ext. 7206. Further information can be found on the Web at: <http://cc.jlab.org/telecom/> and selecting Pager Changeout Information.

The on-site transmitter for paging support in the tunnels and end stations has been replaced with a unit from Metrocall. The new pagers function in these areas but the old TSR pagers no longer work in underground areas. It remains unclear how much longer the TSR pagers will continue to function, McGinnis adds.

The CIS (CEBAF Information System) database has been updated to

reflect the new pager numbers. The Unix "Staff" command and the MIS Web paging utilities have been modified to display the seven-digit pager number correctly. To send e-mail pages, you must include the area code for a total of ten digits with no dashes

in between numbers. Send to this address: XXXXXXXXXXX@PAGE.METROCALL.COM. To send an alpha page via the Web, go to WWW.METROCALL.COM. Telecom paging instructions can be found on the Web at <http://cc.jlab.org/telecom/docs/paging.html>.

At a Glance

Calendar of JLab activities and events

Feb: Whale Watching. See JAG Web page event calendar for details.

Feb. 8: Deadline for signing up for JAG-sponsored day ski trip to Wintergreen. Ski trip will be Feb. 25. See page 6 for details.

Feb. 13: Spring Science Series, 7 p.m., CEBAF Center auditorium. See page 7 for details.

Feb. 26: DMV mobile unit visits Lab from 9 a.m.- 4 p.m. in the parking lot behind the Forestry building.

Feb. 28: Deadline for submitting Run-A-Round T-shirt designs to JAG Chair Becky Nevarez. See page 6 for details.

March 6: Spring Science Series, 7 p.m., CEBAF Center auditorium.

March 26: DMV mobile unit visits Lab.

March 30: JAG-sponsored Spring Arts Festival.

April 21: JLab Open House.

April 26: Take Our Children to Work Day. See page 7 for details.



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