

INTERACTION POINT

July 16, 2004

[Back to SLAC Homepage](#)

[Back to TIP Homepage](#)

In this issue:

[FRONT PAGE](#)

FEATURES

- [Abraham Launches Science Education Program During SLAC Visit](#)
- [Festivities Kick-start Kavli Institute](#)
- [Scientists Step Closer to Blocking Anthrax Toxin](#)
- [Got Physics? BABAR Does!](#)

ANNOUNCEMENTS & UPDATES

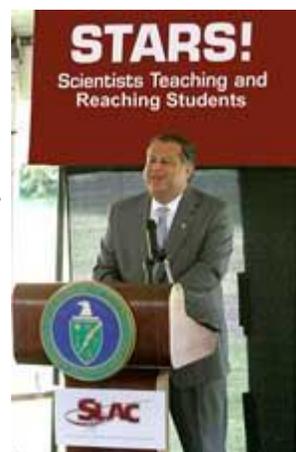
- [ES&H Improvement Efforts Can Make a Difference](#)
- [Weisend Elected to CSA Board](#)
- [Moving SPAM e-mail Out of Your Inbox](#)
- [Welcome New Employees](#)

[Abraham Launches Science Education Program During SLAC Visit](#)

By *Shawne Neeper*

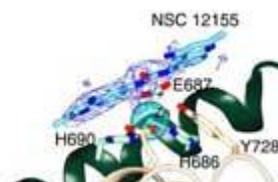
The U.S. is a scientific superpower, but that glory and its economic advantages will languish if our kids don't catch up to other industrialized nations' children in math and science.

[See whole story...](#)



[Scientists Step Closer to Blocking Anthrax Toxin](#)

By *Heather Rock Woods and Irimpan Mathews*



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[Festivities Kick-start Kavli Institute](#)

By *Davide Castelvecchi*

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[See whole story...](#)

[ES&H Improvement Efforts Can Make a Difference](#)

By *Mike Grissom*

Accidents and injuries have increased at SLAC over the past year and a half, reminding us that every employee has a key role to play in maintaining a safe workplace. Even the simplest activity, such

- [Milestones](#)

secreted by Anthrax.

as stepping down a short step-ladder or carrying materials on a walkway, can lead to a personal injury.

EVENTS

[See whole story...](#)

- [WIS Presents:
Smart Women Finish
Rich](#)

[See whole story...](#)

- [Kids Day at SLAC](#)

- [Upcoming Events](#)

ABOUT TIP

- [Staff/Contact](#)
- [Submission Guidelines](#)

The Stanford Linear Accelerator Center is managed by [Stanford University](#) for the [US Department of Energy](#)

Last update Wednesday July 14, 2004 by [Emily Ball](#)

INTERACTION POINT

July 16, 2004

[Back to SLAC Homepage](#)

[Back to TIP Homepage](#)

In this issue:

[FRONT PAGE](#)

FEATURES

- [Abraham Launches Science Education Program During SLAC Visit](#)
- [Festivities Kick-start Kavli Institute](#)
- [Scientists Step Closer to Blocking Anthrax Toxin](#)
- [Got Physics? BABAR Does!](#)

ANNOUNCEMENTS & UPDATES

- [ES&H Improvement Efforts Can Make a Difference](#)
- [Weisend Elected to CSA Board](#)
- [Moving SPAM e-mail Out of Your Inbox](#)
- [Welcome New Employees](#)

Abraham Launches Science Education Program During SLAC Visit

By Shawne Neeper

The U.S. is a scientific superpower, but that glory and its economic advantages will languish if our kids don't catch up to other industrialized nations' children in math and science. So warned U.S. Secretary of Energy Spencer Abraham during his July 8 announcement of a new K-12 science education initiative. Abraham toured SLAC for a sampling of today's industry-driving research, then moved to The Green to describe to a large audience a new effort to inspire tomorrow's innovators.

"It is our responsibility to not only develop the best science facilities," Abraham said, "but also to foster the next generation of American scientists, mathematicians and engineers."

SLAC leaders and local business visionaries treated Abraham to a tour of SLAC facilities that have connected basic research to applications in drug development, medical care and advanced computing. Scientists from Genentech and Exelixis explained how they use SSRL to speed development of new drugs. Representatives from medical accelerator companies, Varian and Siemens, joined SLAC accelerator scientists to illustrate the adaptation of linac technology to cancer treatment. At the computer center, SLAC research director Persis Drell and Objectivity Databases CEO Jay Jarrell discussed how the data requirements of high energy physicists have yielded developments from the Internet to the promise of movies on demand.

To keep the advances coming, Abraham announced, DOE is launching the Science Education Initiative.

An overflow crowd of at least 600 members of the SLAC community, teachers and third through seventh graders listened as Abraham described a growing gap between successful U.S. innovation and failing education.



During his visit to SLAC, U.S. Secretary of Energy Spencer Abraham launched the Scientists Teaching and Reaching Students (STARS) program.

- EVENTS
- [Milestones](#)
 - [WIS Presents: Smart Women Finish Rich](#)
 - [Kids Day at SLAC](#)
 - [Upcoming Events](#)
- ABOUT TIP
- [Staff/Contact](#)
 - [Submission Guidelines](#)
- “Student achievement in science and math should be off the charts,” Abraham said. “But it isn’t.” Among developed nations, U.S. students shine during elementary school, but fall behind by high school graduation—finishing near the bottom in math and physics. The situation could cost the U.S. more than its leadership in science.
- “Work will migrate to the nation with the most skilled workforce,” Abraham stressed. And our national safety depends on advanced technical skills. As the top U.S. funding organization for physical science research, DOE is well-positioned to bridge the gap between top-flight science and the classroom.
- The DOE initiative, called Scientists Teaching and Reaching Students, or STARS, will bring elementary and middle-school students and teachers to the national labs for science education—to experience wonders like SPEAR3 and the linac first-hand. Lab employees will reach outward, too, teaching classes and hosting career days at local schools—especially at-risk middle schools—and answering science questions on the already-successful Ask a Scientist website (www.fnal.gov/pub/inquiring/virtual/index.html). It is also in the STARS to spotlight innovation at an annual science and technology exposition, and promote scientific superstars as role models for children.
- “Improving the scientific literacy of our nation is a very important goal. We look forward to partnering with DOE and our sister laboratories in the STARS program.” Said Jonathan Dorfan.
- “I believe it’s time we start putting our science leaders on the same footing as other celebrities,” Abraham said, not only because their achievements are important, but also “to encourage children to want to learn science and math, in addition to tennis and basketball.”
- This exciting new program will involve all national labs in the education of students in science and math. (Photo by Diana Rogers)*

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Last update Tuesday July 13, 2004 by [Emily Ball](#)

INTERACTION POINT

July 16, 2004

[Back to SLAC Homepage](#)

[Back to TIP Homepage](#)

In this issue:

[FRONT PAGE](#)

FEATURES

- [Abraham Launches Science Education Program During SLAC Visit](#)
- [Festivities Kick-start Kavli Institute](#)
- [Scientists Step Closer to Blocking Anthrax Toxin](#)
- [Got Physics? BABAR Does!](#)

ANNOUNCEMENTS & UPDATES

- [ES&H Improvement Efforts Can Make a Difference](#)
- [Weisend Elected to CSA Board](#)
- [Moving SPAM e-mail Out of Your Inbox](#)
- [Welcome New Employees](#)

Festivities Kick-start Kavli Institute

By Davide Castelvecchi

The ground breaking ceremony held June 28 for the Fred Kavli Building quite literally marked the foundation of a new era of scientific inquiry on the SLAC premises.



Commemorating this event (pictured left to right): David Auston of the Kavli Foundation, Pierre Schwob, Stanford provost John Etchemendy, Fred Kavli and Jonathan Dorfan.
(Photo by Diana Rogers)

In the words of SLAC Director Jonathan Dorfan, the building will be the centerpiece of the newly established Kavli Institute for Particle Astrophysics and Cosmology (KIPAC), as well as to the entrance to the SLAC campus.

“Let us dedicate this house of science to further our understanding of some of the most fundamental questions,” said Fred Kavli to an audience of about 200.

Through the Santa Barbara-based Kavli Foundation, Kavli donated \$7.5 million last year to help establish the Institute, one of nine research institutions across the country now named after him.

Activities in the 25,000 square foot building will champion the increasing convergence of particle physics—the science of the extremely small and astrophysics—the science of the very large.

KIPAC will address the great unanswered questions on the cosmos, including: What are dark matter and dark energy?

Watershed discoveries of the last 10 years suggest that dark matter and dark energy constitute 96 percent of the Universe, while the ‘stuff’ we see and understand, such as light and ordinary matter, makes up a mere 4 percent.

Also at the ceremony was Pierre Schwob, the Palo Alto entrepreneur whose \$1 million donation will fund KIPAC’s Pierre R. Schwob Computing and Information Center, dedicated to the computational and large-scale visualization aspects of KIPAC research. In his speech, Schwob said, “The center will

- [Milestones](#)

confront the challenges that are presented by the literally astronomical amount of data that KIPAC will deal with when storing, analyzing and sharing the science that will come out."

EVENTS

- [WIS Presents: Smart Women Finish Rich](#)
- [Kids Day at SLAC](#)
- [Upcoming Events](#)

Inaugurated just over a year ago, KIPAC is affiliated with SLAC and with four Stanford departments and programs. "The Kavli Institute sets a standard for collaboration between a research university and a research laboratory," said Stanford provost John Etchemendy in his brief address. "I know I speak for [Stanford] President [John] Hennessy when I say that I am thrilled with the progress that has been made to date," he said.

Dorfan and Etchemendy, along with KIPAC director Roger Blandford, expressed gratitude to the donors and to DOE, which will be a major supporter of the Institute's occupants and of its operating costs.

ABOUT TIP

- [Staff/Contact](#)
- [Submission Guidelines](#)

Dorfan then invited Kavli and Etchemendy to join him in the ceremonial ground breaking by digging up the first few shovelfuls of dirt, thus symbolically beginning the foundation of the Kavli building.

Construction teams will follow suit in October and the building is scheduled to be completed in November 2005, according to the project's head architect Steve Dangermond of San Francisco firm Esherick Homsey Dodge & Davis (EHDD). The firm worked closely with Blandford and other KIPAC staff to design a building that would address the scientists' needs. "We have tried to make the building as collaborative as possible, with interaction spaces in the center," Dangermond said. EHDD has designed several buildings at universities such as UC Berkeley and UC Santa Cruz.

"The Institute is blessed with exceptional leadership and has already attracted a cadre of young talent," Dorfan said. KIPAC has already hired more than 20 new members and plans to hire seven more, said KIPAC deputy director Steve Kahn. "There will be a lot of new faces and intellectual thrust," he said.

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Last update Friday July 16, 2004 by [Emily Ball](#)

INTERACTION POINT

July 16, 2004

[Back to SLAC Homepage](#)

[Back to TIP Homepage](#)

In this issue:

[FRONT PAGE](#)

FEATURES

- [Abraham Launches Science Education Program During SLAC Visit](#)
- [Festivities Kick-start Kavli Institute](#)
- [Scientists Step Closer to Blocking Anthrax Toxin](#)
- [Got Physics? BABAR Does!](#)

ANNOUNCEMENTS & UPDATES

- [ES&H Improvement Efforts Can Make a Difference](#)
- [Weisend Elected to CSA Board](#)
- [Moving SPAM e-mail Out of Your Inbox](#)
- [Welcome New Employees](#)

Scientists Step Closer to Blocking Anthrax Toxin

By Heather Rock Woods and Irimpan Mathews

Scientists working on SSRL's macromolecular crystallography beam lines have taken a big step forward in developing a drug to stop the most deadly of the toxins secreted by Anthrax.

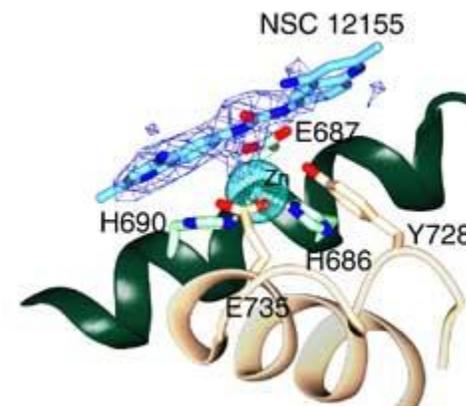
Anthrax makes a lethal cocktail of three toxin proteins that flood the bloodstream, leading to rapid death if the infection is not diagnosed and treated in its early stages. Even antibiotic treatments can fail when the Anthrax bacterium, *Bacillus anthracis*, has already produced lethal levels of toxins.

"The bottom line is we need anti-toxin approaches to treating Anthrax in the late stages," said faculty researcher Robert Liddington of The Burnham Institute in La Jolla, California. "Antibiotics kill the bacteria but are only effective if given early because they don't take out the toxins." Liddington's group published two papers in the June 2 issue of Nature Structural & Molecular Biology, together with colleagues at the Harvard Medical School and the United States Army Medical Research Institute of Infectious Diseases (USAMRIID).

The poisonous protein called Lethal Factor (LF) is the greatest source of damage in highly fatal cases of inhalation anthrax. LF swiftly blocks signals that recruit immune cells to fight the infection. Another enzyme, Edema Factor (EF), causes the release of fluid into the lungs and is deadly on its own. Protective Antigen (PA) protein acts as a transporter system, enabling LF and EF to enter target cells.

An anti-toxin that stops LF would be a vital addition to combined therapy with existing treatments (antibiotics, anti-PA antibodies, critical care).

"The other alternative is vaccination, which is used by the armed forces. However, the side effects are



An x-ray crystal structure of an inhibitor (NSC 12155) bound in the active site of the Lethal Factor protein. (Image courtesy of Robert Liddington)

- [Milestones](#) significant enough that it's unlikely you would want to vaccinate the whole population," Liddington said.

EVENTS

The Burnham group screened small molecules from the National Cancer Institute Diversity Set to identify chemical compounds that can block LF.

- [WIS Presents: Smart Women Finish Rich](#)

"This was step one, to make inhibitors that work in a cell-based assay," Liddington said. "In other words, the cells don't die when exposed to LF bound with an inhibitor in a lab setting."

- [Kids Day at SLAC](#)

Then the researchers began working on chemically generating even better inhibitors. Part of the process involves shining SSRL's x-rays on LF-inhibitor co-crystals to find their atomic-resolution structure. They also collected data at the National Synchrotron Light Source in New York.

- [Upcoming Events](#)

ABOUT TIP

- [Staff/Contact](#)
- [Submission Guidelines](#)

"The structure is key because it tells how and where the drug binds with atomic precision, which allows us to determine ways to alter the drug molecules to bind more strongly and more specifically to LF," he said.

The final phase would be to take the effective anti-toxin, "stockpile it and hope it never needs to be used," Liddington said.

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Last update Friday July 16, 2004 by [Emily Ball](#)

INTERACTION POINT

July 16, 2004

[Back to SLAC Homepage](#)

[Back to TIP Homepage](#)

In this issue:

[FRONT PAGE](#)

FEATURES

- [Abraham Launches Science Education Program During SLAC Visit](#)
- [Festivities Kick-start Kavli Institute](#)
- [Scientists Step Closer to Blocking Anthrax Toxin](#)
- [Got Physics? BABAR Does!](#)

ANNOUNCEMENTS & UPDATES

- [ES&H Improvement Efforts Can Make a Difference](#)
- [Weisend Elected to CSA Board](#)
- [Moving SPAM e-mail Out of Your Inbox](#)
- [Welcome New Employees](#)

Got Physics? BABAR Does!

By Kate Metropolis

If Charles Dickens were writing this story, he could have begun "It was the best of times, it was the best of times."



They may be stressed, but they're excited. These three BABAR postdocs (clockwise from top: Marcella Bona (INFN, Turin), Chiara Simani (LLNL, Livermore) and Mathew Graham (University of Wisconsin, Madison) typify the intensity in BABAR these days. Not only are they working on their own compelling analyses, they are also members of groups that review other analyses, and they comb the papers and presentations of others for weak spots and oversights. What they're not doing is

Within a week at the beginning of July, SLAC two 'centuries' to celebrate: a month ahead of schedule the PEP-II accelerator met the goal of delivering 100 inverse femtobarns to the BABAR detector in the current run cycle, and the BABAR collaboration submitted its 100th scientific paper.

The most successful organisms are those with parts that work together well. The PEP-II accelerator and its attendant physicists, engineers, technicians, and operators, together with the BABAR detector and collaboration, is a very successful organism. It is orchestral in its complexity, with a huge diversity of parts and expertise.

The organism's nutrients, in this case, B-mesons containing b or anti-b quarks, are produced by the PEP-II accelerator. As these particles transform into other particles, the BABAR detector gobbles up the data. Several sophisticated computing systems digest the raw bits into information that physicists can use to decipher the rules of elementary particle behavior.

You can watch this organism evolve from year to year, sometimes even month to month. Evolution is driven by improvements made by grad students and postdocs and professors, technicians and engineers, code-writers, accelerator operators, computing experts, run coordinators, and the people who take shifts with the vigilance of intensive care nurses.

<ul style="list-style-type: none"> • Milestones 	<i>sleeping.</i> (Photo by Diana Rogers)	In the accelerator, the positron current is now 2.5 amperes, the highest in the world by 50 percent. Trickle injection, introduced
EVENTS	during the current run, increased the number of events produced in a given time interval by 40 to 50 percent. A wealth of improvements over the years doubled, then tripled, the accelerator's design luminosity.	
<ul style="list-style-type: none"> • WIS Presents: Smart Women Finish Rich 		
<ul style="list-style-type: none"> • Kids Day at SLAC 		
<ul style="list-style-type: none"> • Upcoming Events 		
ABOUT TIP		
<ul style="list-style-type: none"> • Staff/Contact • Submission Guidelines 	"The performance of the accelerator and detector is a marvelous success," says BABAR spokesperson Marcello Giorgi, "and we have a strong and active team."	
	The BABARian equivalent of bacteria or viruses is mistakes, which can be caused by garbled or incomplete data, or by unconscious bias or oversight in analyzing them. The collaboration has a sophisticated immune system to protect itself. There are 20 people in the data quality group. Each analysis is independently checked dozens of times. In addition, the investigators are blind to the answers they're getting until they decide they have finished, similar to the way in which the effectiveness of a new medical treatment is evaluated, so researchers don't stop when they've reached a result that they expect or hope for.	
	Competition may be nearly as powerful a force in this kind of research as in a natural ecosystem. BABAR plans to present more than 50 new results at the International Conference on High Energy Physics in Beijing in August. Belle, an international collaboration investigating the same kinds of particle decays at the Japanese accelerator laboratory, will also be presenting new results.	
	A visitor to the Research Office Building day or night or on weekends will find members of BABAR pushing themselves to the limits. Wisconsin postdoc Matthew Graham is working on the process that caused excitement when Belle announced a result that has just a one percent chance of agreeing with the standard model. BABAR's result at that time had a 60 percent chance of being in agreement with the standard model. The discrepancy could be explained by statistical chance, or it could turn out that this measurement makes this part of the standard model toast.	
	Both collaborations have significantly more data for this round of analyses, so it wouldn't be a surprise to see the central values of this (and many other) analysis shift. "People who think error bars are for sissies will be disappointed," says BABAR physics coordinator Jeff Richman.	
	Ultimately, as Giorgi points out, both collaborations "are on the same adventure. We hope to open a	

window on new physics.”

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Last update Wednesday July 14, 2004 by [Emily Ball](#)

INTERACTION POINT

July 16, 2004

[Back to SLAC Homepage](#)

[Back to TIP Homepage](#)

In this issue:

[FRONT PAGE](#)

FEATURES

- [Abraham Launches Science Education Program During SLAC Visit](#)
- [Festivities Kick-start Kavli Institute](#)
- [Scientists Step Closer to Blocking Anthrax Toxin](#)
- [Got Physics? BABAR Does!](#)

ANNOUNCEMENTS & UPDATES

- [ES&H Improvement Efforts Can Make a Difference](#)
- [Weisend Elected to CSA Board](#)
- [Moving SPAM e-mail Out of Your Inbox](#)
- [Welcome New Employees](#)

ES&H Improvement Efforts Can Make a Difference

By Mike Grissom

Accidents and injuries have increased at SLAC over the past year and a half, reminding us that every employee has a key role to play in maintaining a safe workplace. Even the simplest activity, such as stepping down a short step-ladder or carrying materials on a walkway, can lead to a personal injury.



Everybody at SLAC has ES&H responsibility for themselves in all activities. (Photo by Diana Rogers)

In the wake of a serious ladder accident at SSRL in January 2003, four working groups were established to improve SLAC's safety management systems, aiming to prevent similar accidents in the future.

Here's how the work of these groups affect employees at SLAC, and whom to contact with questions about the goals of each.

Improved Awareness of Hazards

The Hazard Analysis Working Group (HAWG) has developed tools to improve every employee's awareness of job hazards (see www-internal.slac.stanford.edu/esh/SLACsafety/jham/). The centerpiece of the program is having each employee identify the hazards, both routine and non-routine, of his or her job by filling out a routine 'job hazard analysis and mitigation' (JHAM) document. A number of SLAC organizations, including MFD, EFD, SEM, and the entire ES&H Division, already have completed JHAMS for most of their employees.

In the future, non-routine JHAMS (NR-JHAMS) and 'area hazard analysis' (AHA) documents also will be completed. All SLAC employees are expected to have a routine JHAM on record before the end of FY05 (September 2005). In fact, there is a possibility of all employees having a JHAM on record before the end of calendar year 2004. I encourage all staff to do so if at all possible.

Contact: Dave Dungan (SSRL), Ext. 2008

Improved Goal Setting Process

<ul style="list-style-type: none"> • Milestones 	<p>The Vertical Integration Working Group (VIWG) has developed a process for ensuring SLAC ES&H goals are established and prioritized properly. In this process everyone from line employees to supervisors and senior management flags opportunities for ES&H improvement, which are ultimately considered by the director and associate directors at a retreat in the fall, at which they identify key institutional goals for the following year.</p>
EVENTS	
<ul style="list-style-type: none"> • WIS Presents: Smart Women Finish Rich 	
<ul style="list-style-type: none"> • Kids Day at SLAC 	<p>This process first took place in FY03 with a set of five institutional goals for FY04 (see www-internal.slac.stanford.edu/esh/divreports/fy04qr2.pdf, page 3).</p>
<ul style="list-style-type: none"> • Upcoming Events 	<p>The process for the next year is underway and a number of SLAC departments/groups have already met to consider possible ES&H goals for submission, as well as for use in individual performance evaluations.</p>
ABOUT TIP	
<ul style="list-style-type: none"> • Staff/Contact • Submission Guidelines 	<p>Contact: Janice Dabney (TD), Ext. 3603</p>
	<p>Improved Management of Accidents</p>
	<p>The Readiness and Emergency Management (REM) Team developed an improved accident scene management program, which allows any employee present at the scene to contribute. For details, see ES&H Bulletin #66, "Accident Scene Management" (www.slac.stanford.edu/esh/bulletins/b66.pdf).</p>
	<p>Contact: John Turek (SHA), Ext. 8776</p>
	<p>Developing a Tracking and Trending System</p>
	<p>The Data Management Working Group (DMWG) is developing tools to improve the tracking and analysis of all incidents and accidents at SLAC. The system will be computer based and accessible to SLAC staff. This is a longer term effort, expected to extend into FY05. If you have ideas about what kinds of data would be useful, especially concerning corrective actions and accident near-misses, please send them in.</p>
	<p>Contact: Kymberly Snead (KM), Ext. 4298</p>
	<p>Coming Up</p>
	<p>Future TIP articles will provide details about how individuals can participate in the SLAC "integrated safety management system" (ISMS). Details about the program, including the safety management system document, are available on the web (www.slac.stanford.edu/esh/isms/).</p>

INTERACTION POINT

July 16, 2004

[Back to SLAC Homepage](#)

[Back to TIP Homepage](#)

In this issue:

[FRONT PAGE](#)

FEATURES

- [Abraham Launches Science Education Program During SLAC Visit](#)
- [Festivities Kick-start Kavli Institute](#)
- [Scientists Step Closer to Blocking Anthrax Toxin](#)
- [Got Physics? BABAR Does!](#)

ANNOUNCEMENTS & UPDATES

- [ES&H Improvement Efforts Can Make a Difference](#)
- [Weisend Elected to CSA Board](#)
- [Moving SPAM e-mail Out of Your Inbox](#)
- [Welcome New Employees](#)

Weisend Elected to CSA Board

By Vickee Flynn

John Weisend, head of the Experimental Facilities Department (EFD), was recently elected to the Board of Technical Directors of the Cryogenic Society of America (CSA). As a Technical Director, Weisend will focus on organizing and chairing courses for CSA, including the 2005 Short Course Symposium and others planned to expand the society's outreach and contribution to the discipline of cryogenic engineering.

Weisend has been active in the cryogenic field for a number of years. Prior to coming to SLAC five years ago, he was with DESY, the Centre d'Etudes Nucleaires in Grenoble, France, and the SSC Cryogenics Department. He edited the Handbook of Cryogenic Engineering, was co-author of Cryogenic Two-Phase Flow: Applications to Large Scale Systems, and has authored a number of technical papers.

CSA is a non-profit technical society serving all those interested in any phase of cryogenics. It was formed in 1964 and derived most of its initial members from the aerospace industry. Now members from 12 countries hold a wide range of academic degrees and occupations, including engineers, physicists, sales representatives and technicians.



John Weisend (Photo by Diana Rogers)

INTERACTION POINT

July 16, 2004

[Back to SLAC Homepage](#)

[Back to TIP Homepage](#)

In this issue:

[FRONT PAGE](#)

FEATURES

- [Abraham Launches Science Education Program During SLAC Visit](#)
- [Festivities Kick-start Kavli Institute](#)
- [Scientists Step Closer to Blocking Anthrax Toxin](#)
- [Got Physics? BABAR Does!](#)

ANNOUNCEMENTS &
UPDATES

- [ES&H Improvement Efforts Can Make a Difference](#)
- [Weisend Elected to CSA Board](#)
- [Moving SPAM e-mail Out of Your Inbox](#)
- [Welcome New Employees](#)

Moving SPAM e-mail Out of Your Inbox

By Teresa Downey

We're getting more and more SPAM (unwanted e-mail) here. Having a way to move the spam automatically out of your Inbox can save time and ease the frustration associated with SPAM e-mails. The web page below will give you details on the software we run here which rates the SPAM as it arrives at SLAC and modifies the Subject line to show the rating. More #'s means it is more likely to be SPAM.

Instructions for creating rules to move the SPAM e-mail:

<http://www2.slac.stanford.edu/comp/messaging/puremessage.htm>

We do not recommend you automatically delete the SPAM e-mail because there are false-positives now and then. It makes sense for the Outlook 2003 users to move this e-mail into the existing Junk E-mail folder. Then you can periodically just scan through this folder and clean it out.

Later this year we'll add a 'spam quarantine' feature to our server software so we can hold the SPAM e-mails on the server and not even send them to you.

INTERACTION POINT

July 16, 2004

Welcome New Employees

[Back to SLAC Homepage](#)

[Back to TIP Homepage](#)

In this issue:

[FRONT PAGE](#)

FEATURES

- [Abraham Launches Science Education Program During SLAC Visit](#)
- [Festivities Kick-start Kavli Institute](#)
- [Scientists Step Closer to Blocking Anthrax Toxin](#)
- [Got Physics? BABAR Does!](#)

ANNOUNCEMENTS & UPDATES

- [ES&H Improvement Efforts Can Make a Difference](#)
- [Weisend Elected to CSA Board](#)
- [Moving SPAM e-mail Out of Your Inbox](#)
- [Welcome New Employees](#)



Photo by Diana Rogers

New Employees at the July 1 New Employee Orientation (left to right): Stephen Culp (REG), Queenie Huang (SEM) and Jeremy McCormick (SLD).

INTERACTION POINT

July 16, 2004

[Back to SLAC Homepage](#)

[Back to TIP Homepage](#)

In this issue:

[FRONT PAGE](#)

FEATURES

- [Abraham Launches Science Education Program During SLAC Visit](#)
- [Festivities Kick-start Kavli Institute](#)
- [Scientists Step Closer to Blocking Anthrax Toxin](#)
- [Got Physics? BABAR Does!](#)

ANNOUNCEMENTS & UPDATES

- [ES&H Improvement Efforts Can Make a Difference](#)
- [Weisend Elected to CSA Board](#)
- [Moving SPAM e-mail Out of Your Inbox](#)
- [Welcome New Employees](#)

MILESTONES

Appointments

Kase, Kenneth (DO), elected on May 26 to a 4-year term as Vice President of the International Radiation Protection Association at its 11th International Congress. Term runs until the next Congress in October 2008.

Service Awards

5 Years

Busse, Armin (ESRD), 7/8
 Deacon, Ashley (SG), 7/12
 McPhillips, Scott (NIGMS), 7/19
 Morris, Carol (RP), 7/26
 Rutherford, Amy (SSRL), 7/26
 Thurston, Timothy (REG), 7/27

10 Years

Baltazar, Dakila (ESD), 7/21
 Bong, Patrick (ESD), 7/25
 Boussina, Pezhman (ASD), 7/26
 McKenzie Jr., Charles (SEM), 7/25
 O'Neill, Frank (RD), 7/18
 Owens, Alden (KLY), 7/1
 Sapozhnikov, Leonid (REG), 7/7
 Villaruel, Genedina (PUR), 7/1
 Wienands, Hans-Ulrich (ACC), 7/1

15 Years

Allison, Stephanie (ASD), 7/5
 Boysen, Tanya (GLAST), 7/19
 Brown, Jeffery (ESD), 7/3
 Clark, Spencer (ESD), 7/24
 Irwin, John (ARDA), 7/1
 Rogers, Clifton (ESD), 7/3
 Sewell, Linda (MD), 7/18

- [Milestones](#) Shen, Zhi-Xun (ESRD), 7/1
- EVENTS
- 20 Years
- Boyce, Richard (REG), 7/1
 Courtney, Constance (AAO), 7/23
 Dalit Jr., Gregorio (KLY), 7/23
 Nordby, Martin (REG), 7/9
 Reynolds, Mike (MFD), 7/16
 Sausa, Gordon (MFD), 7/9
 Sung, Yung-Yung (EB), 7/9
- [WIS Presents: Smart Women Finish Rich](#)
 - [Kids Day at SLAC](#)
 - [Upcoming Events](#)
- ABOUT TIP
- 25 Years
- Erickson, Roger (AD), 7/25
 Lindeman, John (PUR), 7/2
- [Staff/Contact](#)
 - [Submission Guidelines](#)
- 30 Years
- Lynch, Harvey (BABAR), 7/1
- 35 Years
- Vassilian, Zohrab (EFD), 7/31
- 45 Years
- Miller, Roger (ARDA), 7/1
- Retired
- Bordas, Zoltan (MFD), 6/10
 Cornacchia, Massimo (ASD), 5/31
 Frisbee, David (SEM), 6/16
 Laxson, George (MFD), 6/2
- Married
- Dale Near (ESRD) to Cheryl Collins, on June 26, 2004
 Erin Smith (HR) to Chris Shatara, on June 26, 2004
- To submit a Milestone, see:
<http://www2.slac.stanford.edu/tip/milestonesubmissionguidelines.htm>
- See Awards and Honors at <http://www.slac.stanford.edu/slac/award>

INTERACTION POINT

July 16, 2004

[Back to SLAC Homepage](#)

[Back to TIP Homepage](#)

In this issue:

[FRONT PAGE](#)

FEATURES

- [Abraham Launches Science Education Program During SLAC Visit](#)
- [Festivities Kick-start Kavli Institute](#)
- [Scientists Step Closer to Blocking Anthrax Toxin](#)
- [Got Physics? BABAR Does!](#)

ANNOUNCEMENTS & UPDATES

- [ES&H Improvement Efforts Can Make a Difference](#)
- [Weisend Elected to CSA Board](#)
- [Moving SPAM e-mail Out of Your Inbox](#)
- [Welcome New Employees](#)

Kids Day at SLAC

By Matt Howard

On Thursday, August 19, SLAC will host its annual Kids Day. This is a time to bring your kids, ages 9 to 16, to SLAC for them to learn more about the wonderful place you work.



Photo by Diana Rogers

This year we will be able to accommodate 234 kids, so register early to secure a spot. Registration begins July 22 and ends August 12 or when all the workshops are filled. The all-day event begins at 8:30 a.m. and ends at 3:30 p.m. The cost is \$10 per child, which includes a barbecue lunch as well as a Kids Day t-shirt.

There are six new workshops for the kids to attend this year: anthropology, safety, facilitation, GLAST, welding and biochemistry. These are in addition to those offered in previous years such as cryogenics, electronics, magnetics and metrology. Dr. Graham George (aka Dr. BOOM) (SSRL) will give a science talk to the kids along with parents and sponsors.

Volunteers are needed to help with the Kids Day festivities. If you are interested, please contact Lisa Mongetta (Ext. 2733, mongetta@slac.stanford.edu).

For more information, see: www-project.slac.stanford.edu/kidsday/2004/detailhtm.htm

INTERACTION POINT

July 16, 2004

About Us:

[Back to SLAC Homepage](#)

[Back to TIP Homepage](#)

In this issue:

[FRONT PAGE](#)

FEATURES

- [Abraham Launches Science Education Program During SLAC Visit](#)
- [Festivities Kick-start Kavli Institute](#)
- [Scientists Step Closer to Blocking Anthrax Toxin](#)
- [Got Physics? BABAR Does!](#)

ANNOUNCEMENTS & UPDATES

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- [Weisend Elected to CSA Board](#)
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- [Welcome New Employees](#)

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INTERACTION POINT

July 16, 2004

[Back to SLAC Homepage](#)

[Back to TIP Homepage](#)

In this issue:

[FRONT PAGE](#)

FEATURES

- [Abraham Launches Science Education Program During SLAC Visit](#)
- [Festivities Kick-start Kavli Institute](#)
- [Scientists Step Closer to Blocking Anthrax Toxin](#)
- [Got Physics? BABAR Does!](#)

ANNOUNCEMENTS & UPDATES

- [ES&H Improvement Efforts Can Make a Difference](#)
- [Weisend Elected to CSA Board](#)
- [Moving SPAM e-mail Out of Your Inbox](#)
- [Welcome New Employees](#)

WIS Presents

Smart Women Finish Rich

Tuesday, July 27
12 Noon - 1:00 p.m.
Panofsky Auditorium

Rhonda Wentzel, Investment Representative, Edward Jones Company

With this fun and educational seminar designed specifically for women, the speaker will arm you with simple steps to help you in your pursuit of financial security and funding your dreams

Learn how to:

- Put your money where your values are
- Figure out where you stand financially
- Discover the power of the 'Latte Factor'
- Build a financial 'Basket' for your retirement, security & dreams

Each participant will receive a free workbook. Bring a lunch and bring a friend.