

INTERACTION POINT



October 3, 2003

Alan Alda Films Scientific American Episode at SLAC



Photo by Diana Rogers

Actor Alan Alda (shown center) came to SLAC on Friday, September 26, to film an episode of the award-winning PBS science series *Scientific American Frontiers*. Alda, who hosts the program, interviewed Persis Drell (shown right), Director of Research at SLAC, and Roger Blandford (shown left), Director of the Kavli Institute for Particle Physics and Cosmology, for a program on the 'Dark Side of the Universe'. The program will air in 2004. After taping an interview at the SLD Detector, Alda visited the two-mile long Klystron Gallery, where he drove an electric cart, remarking that the ride was the most fun he'd had in years.

For more information on the *Scientific American Frontiers* series, see:
<http://www.pbs.org/saf/future.htm>

SLAC Today: News, Events, Announcements and More

<https://www-internal.slac.stanford.edu/today/>

By Kathy Bellevin

Finding out about what's happening daily at the Lab is about to get much easier. SLAC Today, a new feature on the SLAC Web site, is a one-stop resource for Laboratory news, events, announcements and links.

Anyone in the SLAC community can post an item, and we hope everyone will participate in this service.

"SLAC Today is a great tool and will be a tremendous boost to internal communications," said Neil Calder (COM). "Make it your homepage and use it to announce everything that you feel the Lab should know."

Need to Make an Announcement? Don't Have a Web Page? No Problem!

Better yet, you don't need to know html, FrontPage, or any other Web authoring tool to use the system. Announcements can be made within minutes, so important news will get to staff right away.

SLAC Today will be managed by the Communications group, which reviews every submission before it is posted.

SLAC Today will replace the existing Announcement system (currently found on the Detailed Home Page

<http://www.slac.stanford.edu/detailed.html>). SLAC Today will also replace the weekly QuickNews electronic newsletter (<http://www.slac.stanford.edu/grp/do/quicnews/>)

Improving Lab Communication

This application was developed under the guidance of a group comprised of staff from throughout the Lab. The group is building a series of tools to help improve Web-based communications within the SLAC community.

In August 2000, the Communications Task Force outlined a number of recommendations to help improve communications Lab-wide, including:

"To support good communication we must develop convenient and efficient tools. The right tools encourage the thoughtful use of appropriate media for the message and the audience."

SLAC Today is just one of many initiatives the Lab has undertaken to improve our Web site and communications in general. Other Web-based projects include upgrading the search engine, as well as redesigning the phone book, site navigation and public pages.

The SLAC Today application was built on an Oracle database by a team from SCS, TIS and Communications. The application could become the base for other applications that

PHYSTAT 2003: Expanding the Statistics Toolbox for Physicists

By Heather Rock Woods

Like Gold Rush sluice boxes that separate gold from fool's gold, statistics lets real discoveries glitter instead of masquerading background events.

Statistics played an important role in CERN's decision three years ago to turn off the LEP machine and begin on-time construction of a new machine. Even though there were tantalizing hints of the still unearthened Higgs particle detected just before LEP was to turn off, "statistically, there weren't enough events and the confidence limits were not as strong as needed to claim a discovery," said Louis Lyons, a particle physicist at Oxford. CERN decided not to make the expensive changes to its construction contracts that would be required to keep the machine on.

In order to add advanced statistics techniques to the toolbox of particle physicists, astrophysicists and cosmologists, some of the world's greatest statisticians came to SLAC from September 8 to 11 for the PHYSTAT 2003 conference.

About 120 participants studied advanced statistics for measurements and searches in their fields, hoping to improve results and save time

and frustration when analyzing the mounds of data accumulated from an experiment.

"We spend a lot of time, effort and money to build, design and run apparatus. Getting the most out of your data is very important and relatively cheap," said conference organizer Lyons. He is comfortable wielding statistical tools, and has written a book and given many lectures on the topic.

"Even particle physicists can find statistics a chore," he said, "but it's an essential part of correctly understanding what an experiment has measured and to what accuracy." Statistics is also used to set a limit on probabilities, check if the data is consistent with Standard Model predictions, and combine results from different experiments to create a more sensitive answer.

"We learn statistics the hard way, by trying it out. The conference really was meant to enhance the statistical ability of people in these fields," said Lyons. "In particle physics, astrophysics and cosmology, people work with different tools—accelerators versus telescopes—but nonetheless a lot of the data analysis techniques are very similar."

(See PHYSTAT, page 3)

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News (see all [sub]plots)

- California Enacts Anti-Spam Law: [SFGate article](#)
- Discovering Dark Matter: Article in the Shorthorn
- Accelerators and Dinosaurs: Article from Physics Today Article from Physics ...
- Cosmic X-ray flashes reveal their distance: From the Chandra X-ray Center From the Chandra ...
- Oracle to Form Commercial Grid Consortium: From eWeek
- Brookhaven Lab Press Release: Edward Beebe and Alexander Pilk Win OBrightness ...

Current Feature:

INTERACTIONS.ORG
Data Launch
Tuesday, 8/19/03

Interactions.org, News, Images and More
Interactions.org, a new global Web-based resource, has been launched to provide the particle physics community with news, high quality imagery, video and other tools.

Lab Announcements

- Sep 27 Road Work on Loop Road
- Sep 30 Stanford Physics Colloquium: Gamma Ray Bursts
- Oct 01 Astrophysics Seminar: Quasar Winds and Ghosts
- Oct 06 Colloquium: Evolving Particles and Interactions
- Oct 08 SSRL Annual Users Meeting

Community Bulletin Board

- Sep 23 Volunteers Needed for the Holiday Party
- Sep 16 Science Buddies Program Information
- Aug 19 Wellness Classes Start Aug 27 and 29
- Aug 19 Academic/Career Counseling Center Survey

[About SLAC Today](#) | [Comments](#) | [Phone Book](#)

The Stanford Linear Accelerator Center is managed by Stanford University for the U.S. Department of Energy Office of Science

The SLAC Today main page

manage and publish Web content.

Send Your Comments and Suggestions

We want your input! After you've had a chance to explore this new service, please fill out the comments form and let us know what improvements or additions we can make.

For more information, please contact Kathy Believin (Ext. 2585, kathyb@slac.stanford.edu). ●

Image courtesy of Communications

Director's Corner

By Jonathan Dorfan

Protection of human and environmental health is of the utmost importance at SLAC. One of the cornerstones of our Mission is: "Maintaining excellence in matters of environmental concern and providing for the safety and health of the SLAC staff, users and the general public." We achieve this in many ways, guided by an experience base which has led to codified rules and behaviors for safe and protective practices.

Here at SLAC, we comply with Occupational Safety and Health Administration (OSHA) safety rules. These rules have been historically enforced internally through oversight by the DOE. Recently, Congress has been investigating the cost and benefits of shifting 10 research labs, including SLAC, to external control under OSHA itself. Consequently, OSHA will visit each lab and thoroughly evaluate differences between OSHA and DOE administration to develop a cost analysis for a possible transition to external regulation.

OSHA's visit to SLAC is scheduled for sometime in late January or early February 2004 and will likely be the largest and most exhaustive safety audit since the Tiger Team days. Five to ten OSHA personnel will inspect SLAC wall-to-wall for up to two weeks. Though the inspection is primarily for cost assessment and no fines or corrective measures are to be established, we want to be sure that the strengths of SLAC's OSHA program are clearly visible to the auditors.

SLAC has prepared an OSHA Readiness Program which will aid in our goal of exemplary OSHA compliance. In addition to the creation of a Readiness Task Force headed by Jack Hahn, we also examined our facilities from the OSHA prospective and compiled lists of possible enhancements that should be considered in each area and by each person. The list is divided into two parts: a facility conditions list aimed at line managers and an employee activity list for supervisors and employees. All SLAC workers should familiarize themselves with these lists and follow the applicable guidelines therein. (See: <https://www-internal.slac.stanford.edu/esh/extreg/>)

With your cooperation we can demonstrate to OSHA our ongoing commitment to maintaining SLAC as a healthy, safe and productive research institution. A world class laboratory like SLAC needs world class safety standards in order to continue our tradition of excellence in all areas of achievement. I thank you in advance for your help in making this a successful process. ●



Photo by Diana Rogers

Science Buddies: You Can Make a Difference

By Anna Gosline

Ken Hess, a businessman and engineer by training, saw first hand the benefits of his daughter's participation in science fairs. Yet few students are taking advantage of this valuable experience.

Hess believed that mentoring was the key to boosting waning science fair attendance and improving California's dismal science achievement levels. So he created Science Buddies, a highly structured, totally on-line program facilitating partnerships between science project hopefuls and professional scientists. Professionals like the researchers here at SLAC.

Science Buddies began as a pilot project in 2001 with a group of 81 participants, comprised of middle school investigators, high school mentors and professional or academic advisors working together to create a science project. Teams are created through a simple program that matches the investigator to a mentor and an advisor based on the investigator's general area of interest.

How the Program Works

Investigators do all the hands-on work, relying on their high school mentors for primary assistance and then on advisors for more complex questions and big picture explanations. Teams communicate

in their own password-protected Web area for the duration of the science fair season, which runs from approximately November to March.

On September 16, Hess and his colleague Shi-Jun Liu came to SLAC to highlight the success of Science Buddies and to recruit advisors for the 2003-2004 season. In the 2002-2003 season more than 750 people were involved, including SLAC researchers Keith Jobe (NLC) and Josef Frisch (NLC), yielding 256 completed projects with a handful reaching the statewide competition level.

More than 90 percent of all participants said they would be happy to do it again, including both Jobe and Frisch. "It was a real eye-opener. You can really make a difference," said Jobe. When asked by other prospective SLAC advisors whether the estimated hour-a-week time commitment was accurate, Jobe replied, "It was a negligible part of my computer-based, bureaucratic burden."

Organizers have worked hard to address concerns voiced by last year's participants. Stricter screening for involved and enthusiastic teachers will improve the commitment level of investigators. Improved communication with teachers will facilitate greater synchrony between Science Buddies assignment deadlines as well as the classroom curriculum

ES&H Reorganizes to Better Serve Lab Needs

By Irene Boczek

The SLAC mission is to do world-class science safely and respectfully. Referring to all Office of Science Laboratories, DOE Office of Science Director Ray Orbach recently stated, "The standard to which performance will be held, is world leadership in all areas of laboratory operations."

To further support this vision and the SLAC mission, the ES&H Division is pursuing four strategic thrusts:

- Maintain the ES&H excellence that SLAC has enjoyed. During four of the past five years, SLAC ES&H has been rated Outstanding (see *TIP*, September 5, 2003 and *TIP*, August 15, 2003).
- Ensure that each employee who needs ES&H information has just the information they need, at the time that they need it, and in a format that is useful to them.
- Provide timely, useful support and service to SLAC operations.
- Improve the effectiveness and efficiency of our ES&H operations so that we are first safe and protective, but still spending as much time on science as is possible.

With this in mind, SLAC ES&H has recently reorganized. We organized according to the life cycles of chemicals, radiation and safety. Accordingly, Radiation Physics and Operational Health Physics are now in a single department, Radiation Protection, led by Sayed Rokni with assistance from Steve Frey.

Similarly, Environmental Protection and Remediation and Waste Management are now in a single department, Environmental Protection, led by Helen Nuckolls with assistance from Michael Scharfenstein and Susan Witebsky.

All ES&H communications activities are consolidated into the Knowledge Management department, led by Kymberly Snead.

Finally, we created leadership positions for ES&H Service and Support (led by Mike Scharfenstein) and ES&H Effectiveness and Efficiency (led by Jack Hahn).

In the short run, these changes may have minimal impact on your relationship with ES&H. Please continue to:

- Use the ES&H resource list for general assistance. See: <http://www.slac.stanford.edu/esh/resource.pdf>
- Contact the Operational Health Physics group at Ext. 4299.
- Use the ES&H hotline at Ext. 4641 for immediate issues.

In the longer term, however, we hope to provide better support, usable programs, and crisp, actionable guidance.

For more information about ES&H at SLAC, see: <http://www.slac.stanford.edu/esh/> ●



Science Buddies organizers and participants (shown left to right) Ken Hess (Science Buddies founder), Nicolle Rager (COM), Harvey Lynch (BABAR), Caolionn O'Connell (ARDB), Josef Frisch (NLC), Shi-Jun Liu (Science Buddies), Carter Hall (SLD), Keith Jobe (NLC), Tom Glanzman (EC), Robert Noble (ARDB), Travis Brooks (TIS), Neil Calder (COM), Mehdi Javanmard (ARDB), Anna Gosline (COM)

and allow more flexibility within the rigid system. This year, Hess and his colleagues also hope to encourage more students to enter county science fairs, thus getting a more discernable measure of their success.

Still Time to Join

All SLAC employees who attended the presentation agreed to sign up for this year's program, and there is still time to join if you haven't done so yet. "I'm convinced," said Harvey Lynch (BABAR).

"Science Buddies can make a real difference in the attitudes of its young investigators," said Jobe. One student

commented, "At first, I thought that science projects were boring and I saw it as another dull assignment that I have to do for class. But you guys made it fun and I actually wanted to work on my science fair project each day after I got [home] from school." A little help goes a long way.

If you want to become a mentor and encourage students in their scientific pursuits, there is still time to join. Science Buddies is an easy and effective way to encourage a young mind.

For more information, see: <http://www.sciencebuddies.org> ●

PHYSTAT

(continued from page 1)

Broadening the Audience

Compared to previous physics conferences on statistics, the SLAC event broadened its audience to the astrophysics and cosmology community, and invited more statisticians to provide expert insight.

Stanford Statistics Professor Brad Efron gave the keynote address, entitled "Bayesians, Frequentists and Physicists," about different approaches to statistics. Efron is also president of the American Statistical Association and a MacArthur Prize winner.

Seth Digel (GLAST) and Frank Porter (BABAR) gave talks on statistical issues they face. Jerry Friedman (SCS), a particle physicist turned professor of statistics at Stanford, spoke on "Modern Developments in Machine Learning."

The Importance of Limits

Setting limits is an important statistical tool. Many experiments look for things but don't see them, like the search for dark matter and the Higgs particle.

"But rather than say you don't see it, you can say the maximum effect that

could be there is x," said Lyons. It's similar to learning an item is smaller than a breadbox when playing 20 Questions. "If you set a good limit, it can be very significant."

For example, though LEP did not find the Higgs particle, its search was very sensitive. Physicists can now say the Higgs particle, if it exists, has a mass heavier than 114 GeV. LEP's successor (LHC), Fermilab's Tevatron, and any future Linear Collider will have shots at finding the particle at those greater energies.

Other conference topics included signal significance, systematics, spatial data, non-parametric estimation, unfolding convolution, blind analyses, multivariate classification, variability of sources, hypothesis testing, goodness of fit and cluster analysis.

The local conference committee consisted of Richard Mount, Arla LeCount, Joseph Perl and David Lee. Local members of the scientific committee were Roger Barlow, Seth Digel, Brad Efron, Jerry Friedman, Jeffrey Scargle and Steve Yellin.

For more information, and a recommended reading list, see: <http://www-conf.slac.stanford.edu/phystat2003/>

Science Teacher Tours

By Emily Ball

In an effort to connect with Bay Area science teachers, SLAC hosted two science teacher tours last month. On September 20 and 27, approximately 45 physics and chemistry teachers from local middle and high schools came to SLAC for a discussion on particle physics and for a laboratory tour.

The tours began with a welcome from Lab Director Jonathan Dorfan and Neil Calder (COM). Tour guide Travis Brooks (TIS) followed up with a presentation on the basics of SLAC science. Participants then boarded a bus to take a site tour.

Science teachers caught a glimpse of the Klystron Gallery and took in the view on the hill overlooking the Research Yard before being whisked to SLD for a peek at a giant detector.

The events went off without a hitch, due in large part to the tremendous efforts of Brooks and Caolionn O'Connell (ARDB). Thanks to this tremendous crew SLAC offered a fun, interesting event that encouraged Bay Area science teachers to bring their students to SLAC in the future.

From the Benefits Office:

HAVE QUESTIONS ABOUT INVESTING YOUR RETIREMENT?

Representatives from Fidelity, Vanguard and TIAA-CREF will be holding individual counseling sessions at SLAC. Please call the company directly to set up an appointment:

Fidelity

November 4
December 3
call (800) 642-7131

Vanguard

October 14
call (800) 662-0106
ext. 14500
www.meetvanguard.com

TIAA-CREF

October 23
November 20
December 18
call (800) 842-2007
www.tiaa-cref.org/moc

All sessions will be held at:
Building 280, Module A,
Room 180

Lesley Wolf: Hunting for an Easier Way to Get Physics into Classrooms

By Anna Gosline

After a year of work in SLAC Public Affairs and more than two years in the SLAC Library, Lesley Wolf has certainly developed a taste for the intersection between public information and physics research. Yet she still thinks like the middle school teacher she once was.

This unique, dual perspective led her to develop a proposal for a powerful physics educational tool and subsequently earn this year's Alonso W. Ashley Career Development Fellowship.

The yearlong fellowship allows the recipient to take time off from their usual SLAC duties to pursue further school, job training, new programs at SLAC or even new jobs. Wolf plans to do a little of each of these. Her major goal is to put a significant dent in her library sciences coursework at San Jose State University. This training will give her the necessary preparation to tackle a serious question: How can we make the vast on-line physics educational resources more accessible and directly relevant to teachers?

Most major research centers like SLAC have beautiful on-line visitor's centers, bursting with information, graphics and displays. However, they are not optimally organized for the hectic schedule and curriculum-oriented needs of a teacher. Through observations and interviews with teachers, Wolf hopes to learn exactly how these Web sites are currently used and how teachers and students interact with them.

Using this research, combined with her previous teaching experience and newly acquired training in library



Lesley Wolf, the Ashley Career Development Fellowship recipient

sciences, Wolf hopes to create an on-line index of existing Web sites based on the framework of the California State curriculum. Applicable topics specified in the curriculum for each grade will be linked to relevant available Web sites.

By using Wolf's tailor-made on-line educational index, teachers in all areas of expertise may be more likely to present a richer and more engaging slice of physics in their classrooms. This, Wolf hopes, will foster future interest in physics and help to explain the workings of fascinating places like SLAC, ultimately showing people the importance and relevance of physics research. Science, especially physics, can have a bad rap with students. "It doesn't have to seem so hard and inaccessible," says Wolf. With Lesley's help, the diverse world of physics may be just a few clicks away.

Like a Good Neighbor: Clean Up to Prepare for the Rainy Season

By Mike Hug

Just as we prepare our homes for the rainy season, we should prepare SLAC as well. Cleaning up trash and debris that can be washed away by rainwater prevents pollution of our environment. You can help by simply cleaning up your immediate work area.

Here Comes the Rain

As winter approaches, we prepare our homes before it starts raining. We cover our patio furniture and

site. Catch basins are openings in the ground within paved areas or in curbs next to the road. Because rainwater is not treated, trash and debris goes directly into San Francisquito Creek, then into San Francisco Bay.

What Will Happen Here When it Rains?

You can help protect the environment by preventing pollution from flowing into SLAC catch basins. Cleaning up outdoor areas is the single most important contribution you can



This work area could use some tidying up.

barbeques, remove leaves from the gutters and pick up junk in the yard. Completing these chores not only improves the appearance of our homes, it also reduces runoff pollution.

Similarly, preparing SLAC for the rainy season will prevent damage to the fragile wilderness around the site. Rainwater can carry pollution such as cigarette butts, packing peanuts, debris and oil into storm water catch basins located throughout the

make to reduce runoff pollution. Look around your work area and ask, "What will happen here when it rains?" You will likely find potential pollution that can be avoided by taking simple clean-up actions now.

If you have questions about how to prepare your area for the rainy season, or if you need help with housekeeping arrangements, please contact Mike Hug of the Environmental Protection and Restoration Department (Ext. 4042, hug@slac.stanford.edu).

POLICIES AND PROCEDURES

Foreign Travel Regulations: Airline Ticket Purchase

When buying airline tickets for SLAC, one important point in the Foreign Travel Regulations is that the flight number be a U.S. Carrier flight number.

Example of some U.S. air carriers:
• Delta (DL + flight number)
• American (AA + flight number)
• United (UA + flight number)
• Northwest (NW + flight number)
• Alaska (AS + flight number)

Some tickets or itineraries show both flight numbers, the US and the foreign carrier, and that is acceptable for reimbursement.

This policy is stated on the SLAC Travel guidelines web page at <http://www-group.slac.stanford.edu/travel/guidelines.html>.

Contact: Alison Twombly, Accounts Payable, Ext. 4346, atwombly@slac.stanford.edu

MILESTONES

Service Awards

5 years

Alvarado, Gene (SEM), 10/07
Bersola, Pedro (MD), 10/01
Blankenship, Carl (ESD), 10/01
Bucio, Salvador Ochoa (SEM), 10/01
Escobar, Ricardo (ESRD), 10/01
Gamble, John (ESRD), 10/01
Hall, Robert D. (ESD), 10/08
Jensen, David (MET), 10/01
Kacharovsky, Alexei (EFD), 10/05
Loc, Mike (ACC), 10/01
Moore, Robert J. (EFD), 10/01
Petrak, Sibylle (EE), 10/01
Prado, Joel (SCS), 10/01
Shepard, Lowell (SCS), 10/01
Singh, Satwinder (SEM), 10/09
Tuck, Terry (EFD), 10/01

20 Years

Barklow, Timothy (EA), 20, 10/01
Ruland, Robert (MET), 20, 10/01

25 Years

Adelman Stolar, Nina (COM), 10/01

30 Years

Gray, Robert (ESD), 10/08

35 Years

McIntye, Herbert (COM), 10/01

40 Years

Boyarski, Adam (EC), 10/15

Deceased

Huang, Tze Vee, retired in 1986, passed away at age 83 on September 21, 2003

To submit a Milestone, see: <http://www.slac.stanford.edu/pubs/tip/milestoneindex.html>

See Awards and Honors at: <http://www.slac.stanford.edu/slac/award/icfa03/>

Theory Beats Experiment 18-6! SLAC Community Stunned

By Nina Adelman Stolar

Theory bolted to a five-run first inning lead and never looked back as they clobbered Experiment 18-6 at this year's annual Theory vs. Experiment Softball Game. The convincing win snapped a five-year Experiment win streak that began in 1998. Wildly cheering Theory fans and supporters had not seen such a complete victory since 1982 when Theory snapped a seven-year victory drought. It was the highest run production for Theory batters in over 20 years.

"There is nothing theoretical about this important victory," said Emeritus Theory Captain Sid 'Lefty' Drell (DO). "Captain JoAnn Hewett put together an excellent game plan and the team executed to perfection."

There were plenty of heroic efforts by both teams as players struggled under the withering sun. Surface temperature at Roble Field nudged 100 degrees F (38C). The oppressive heat took its toll on overheated players and sweltering fans. However, there was no relief in sight for Experiment—they could only tally three runs through the first seven innings. In contrast, the Theory hitting barrage was relentless and got stronger as the game progressed. Theory scored 13 runs in the final five innings while Experiment could muster only three more runs of their own. Theory mercifully shut out Experiment in the bottom of the ninth to close out the game 18-6.

Much of the credit goes to Theory pitchers Herm 'The Wiggler' Winick (SSRL) and Yuval 'G-man' Grossman (TH) who frustrated impatient



Jamie McGuire (Stanford) accepts the MVP honor awarded by Theory Captain Emeritus Sid 'Lefty' Drell (right).

Experiment batters by throwing a devastating selection of unhittable spinners and sky balls.

The first Bill Kirk MVP Award went to Theory Stanford student Jamie McGuire for his sterling batting performance. McGuire's key base hit in the first inning scored two RBIs. He followed up with three more RBIs in the seventh with a bases clearing home run.

After the game Experiment Captain Mike Woods (EA) remarked, "We were dismayed to see our winning streak snapped. This off-season we'll neogitate to woo some key SSRL players from THEORY, and we'll seek new recruits. I'm looking forward to the match up next year!"

For this year's game highlights and photos, see: <http://www.slac.stanford.edu/gen/pubinfo/Softball/game03.html>

For more on SLAC Softball, see <http://www.slac.stanford.edu/gen/pubinfo/Softball/softball.html>

Certificate In Supervision Program to Begin Soon

By Sandra Czech

Do you want to gain new supervisory skills or enhance your current ones? Are you looking to improve your potential for promotions while learning effective management skills? Would you like to improve your ability to communicate more effectively with the people you work with?

These are a few of the benefits you can achieve by attending the Certificate in Supervision program. Participants will be able to enrich their basic understanding of a supervisory role, while working with knowledgeable professionals.

This nine-class training program is designed to help supervisors, managers and other SLAC employees who want to learn about the supervisory role and acquire the effective leadership skills to meet the demands of the SLAC workplace.

The program is open to new and experienced supervisors and to employees who are interested in becoming supervisors in the future. Approval from your supervisor is required.

Sign up now! Start working toward your certificate today. Classes begin October 9.

To sign up or to learn more about the program, see: <http://www-group-slac.stanford.edu/hr/t/supervision.html>

Upcoming Events

Fri., Oct. 3, 12:30 p.m.

SLAC, Green Room
SLAC FRIDAY THEORY SEMINAR

Edward Baltz, SLAC

"Dark Matter from beyond the Standard Model"

Tues., Oct. 7, 4:15 p.m.

SLAC, Panofsky Auditorium,
(Refreshments-4:00)

SLAC DEPT. COLLOQUIUM

Chris Quigg, FNAL

"Envisioning Particles and Interactions"

Oct. 8 - 10

SLAC, Panofsky Auditorium

SLAC SSRL MEETING

Ben Bostick/Tim McPhillips,

Dartmouth College/SSRL

SSRL Annual Users Meeting

<http://www-ssrl.slac.stanford.edu/conferences/SSRL30/>

Oct. 13 - 16

SLAC, Redwood Room

SLAC PHYSICS MEETING

John Seeman/Regina Matter, SLAC

ICFA Beam Dynamics Workshop on

High Luminosity e+e- Collisions

<http://www-conf.slac.stanford.edu/icfa03/>

Oct 20-24

Doubletree Hotel, Portland, Oregon,
SLAC/IEEE/NSS PHYSICS MEETING

Ralph James, BNL

IEEE Nuclear Science Symposium

<http://www.nss-mic.org/2003/nss2003.html>

Mon., Oct. 20, 4:15 p.m.

SLAC, Panofsky Auditorium,
(Refreshments-3:45)

SLAC DEPARTMENTAL

COLLOQUIUM

Douglas Osheroff, Stanford U

"NASA"

Mon., Nov. 3, 4:15 p.m.

SLAC, Panofsky Auditorium,
(Refreshments-3:45)

SLAC DEPARTMENTAL

COLLOQUIUM

John Bahcall, Princeton U

To be announced

Please send additions to:
seminars@slac.stanford.edu

For complete event listings, see:
<http://www.slac.stanford.edu/grp/pao/seminar.html>

The Interaction Point

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TIP is available online at: <http://www2.slac.stanford.edu/tip/>