

# INTERACTION POINT

February 17, 2006

[Back to SLAC Homepage](#)

[Back to TIP Homepage](#)

In this issue:

[FRONT PAGE](#)

## FEATURES

- [A Positive Spin](#)
- [SLUO Executive Committee](#)
- [Final Days for Final Focus Test Beam](#)
- [SABER Offers FFTB Replacement](#)
- [Dancing on Ice](#)

## ANNOUNCEMENTS & UPDATES

- [The Last TIP](#)
- [Safety Discipline Update](#)
- [Injury Prevention Presentation Now Available](#)
- [Welcome New Employees](#)
- [SLAC Emergency Hotline Number](#)
- [Milestones](#)

## EVENTS

- [10-Year Service Awards](#)
- [Public Lecture on Arsenic: The Silent Killer](#)
- [DOE Science Bowl](#)
- [Certificate in Supervision Grads](#)

## ABOUT TIP

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

## The Last TIP

By Nina Adelman Stolar

This is the last issue of **The Interaction Point (TIP)**. TIP is making way for a daily on-line newsletter. As a SLAC employee, you will receive the first issue in your inbox on Monday, February 27.



*The new SLAC Today daily on-line newsletter prototype.*  
(Image courtesy of Kelen Tuttle)

You can also find the newsletter on [SLAC Today](#). Please encourage others to subscribe at this website as well!

Named after SLAC Today, this newsletter will offer all the Lab's news

and information in one place: everything from upcoming events and workshops to awards and announcements. [See whole story...](#)

## A Positive Spin

By Heather Rock Woods



Beams with polarized particles greatly boost the physics output

of high energy physics colliders. While it has been straightforward to make polarized electron beams, polarizing positrons is more difficult, especially in the case of linear colliders. The E-166 experiment has successfully demonstrated a

## DOE Science Bowl at SLAC

And the winners are...



First Place Team: The Harker School, San Jose  
Second Place Team: Lowell High School, San Francisco  
Third Place Team: Abraham Lincoln High School, San Jose

## 10-Year Service Awards



## Certificate in Supervision Grads



## Dancing on Ice

By Linda DuShane White

For inspiration look no further than

technology to make a polarized beam of positrons for a future linear collider.

[See whole story...](#)

## RESEARCH YARD HIGHLIGHTS:

### [The Final Days for Final Focus Test Beam](#)

The Final Focus Test Beam (FFTB) enters its final days this winter. [See whole story...](#)

### [SABER Offers FFTB Replacement](#)

As SLAC prepares to remove FFTB and construct the LCLS, a dozen or so researchers and engineers are designing the South Arc Beam Experimental Region (SABER). [See whole story...](#)

GLAST where Project Controls Manager Linda Price is when she is at SLAC.



Before her workday begins, Price can be found in Redwood City practicing for ice skating competitions. [See whole story...](#)

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

Last update Friday February 17, 2006 [TIP](#)

# INTERACTION POINT

February 17, 2006

[Back to SLAC Homepage](#)

[Back to TIP Homepage](#)

In this issue:

[FRONT PAGE](#)

FEATURES

- [A Positive Spin](#)
- [SLUO Executive Committee](#)
- [Final Days for Final Focus Test Beam](#)
- [SABER Offers FFTB Replacement](#)
- [Dancing on Ice](#)

ANNOUNCEMENTS & UPDATES

- [The Last TIP](#)
- [Safety Discipline Update](#)
- [Injury Prevention Presentation Now Available](#)
- [Welcome New Employees](#)
- [SLAC Emergency Hotline Number](#)

## A Positive Spin

By Heather Rock Woods

Beams with polarized particles greatly boost the physics output of high energy physics colliders. While it has been straightforward to make polarized electron beams, polarizing positrons is more difficult, especially in the case of linear colliders. The E-166 experiment has successfully demonstrated a technology to make a polarized beam of positrons for a future linear collider.



*The E-166 collaboration met at DESY Zeuthen in Berlin, Germany in November 2005.*

*(Photo courtesy of John Sheppard)*

"Let's say the beam is definitely polarized, sufficient for a linear collider," said Bill Bugg (University of Tennessee, Knoxville).

For decades, SLAC has been making positrons—the antimatter equivalent of electrons—but this is the first polarized positron beam at SLAC. Polarized means the particles are oriented to spin in the same direction; imagine most of the golf balls at a driving range rotating clockwise as they fly toward the net. Beams never reach 100 percent polarization, but the more polarized the beams, the more information they reveal in collisions.

E-166 proves that the proposed International Linear Collider (ILC) could be designed with a polarized positron beam. The collaboration is still analyzing the results to determine the precise amount of polarization achieved.

- [Milestones](#)

#### EVENTS

- [10-Year Service Awards](#)
- [Public Lecture on Arsenic: The Silent Killer](#)
- [DOE Science Bowl](#)
- [Certificate in Supervision Grads](#)

#### ABOUT TIP

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

In two runs during June and September 2005, the collaboration used SLAC's two-mile linac to deliver electrons to the Final Focus Test Beam (FFTB). There the electrons travel through a helical undulator, a one-meter-long magnet that forces the electrons to spiral, thus emitting polarized gamma rays. The gamma rays strike a tungsten target, producing showers of polarized positrons with an average energy of 5 to 6 million electron volts (MeV). Alexander Mikhailichenko (Cornell), who built the undulator for the experiment, was one of the people to originally propose the technique in 1979.

The electrons travel through the undulator in a tiny beam pipe—a stainless steel tube with a 0.9-millimeter inside diameter. The pipe is cut from the same hollow metal used for hypodermic needles and cheap, too, at \$1 per foot. Even though the electron beam is 20 times narrower than the pipe aperture, some feared the small pipe would be a showstopper. The beam needed to go cleanly through the undulator without touching the pipe wall. Any beam loss at all would have saturated the detectors with background noise.

"The undulator performance was superb, like flipping a switch," said experiment spokesman John Sheppard (ILC).

The results put to rest doubts that helical undulators would produce circularly polarized gamma rays or that polarized gamma rays would in turn produce polarized positrons.

"SLAC was the only place we could possibly do this experiment," Sheppard said. "We needed a 50 GeV low-emittance (transversely small) beam, small enough to fit through the undulator beam pipe. The success of the experiment in large part was due to the excellent beam quality and stability delivered by the SLAC operations staff."

Collaborators who took shifts at SLAC came from the University of Tennessee, DESY Hamburg, DESY Zeuthen, Humboldt University Berlin, Cornell, Daresbury, RWTH Aachen, Princeton and Tel-Aviv University.

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

Last update Thursday February 16, 2006 by [TIP](#)

# INTERACTION POINT

February 17, 2006

[Back to SLAC Homepage](#)

[Back to TIP Homepage](#)

In this issue:

[FRONT PAGE](#)

FEATURES

- [A Positive Spin](#)
- [SLUO Executive Committee](#)
- [Final Days for Final Focus Test Beam](#)
- [SABER Offers FFTB Replacement](#)
- [Dancing on Ice](#)

ANNOUNCEMENTS & UPDATES

- [The Last TIP](#)
- [Safety Discipline Update](#)
- [Injury Prevention Presentation Now Available](#)
- [Welcome New Employees](#)
- [SLAC Emergency Hotline Number](#)
- [Milestones](#)

EVENTS

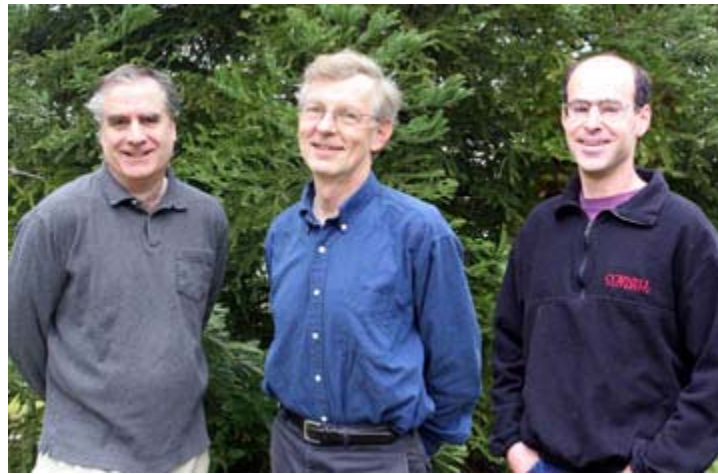
- [10-Year Service Awards](#)
- [Public Lecture on Arsenic: The Silent Killer](#)
- [DOE Science Bowl](#)
- [Certificate in Supervision Grads](#)

ABOUT TIP

## SLUO Executive Committee

By Linda DuShane White

The SLAC Users Organization (SLUO) Executive Committee represents high energy physics (HEP) users at SLAC, with BABAR currently the largest of these groups. This very active Executive Committee has 12 members, meets every five weeks and is deeply involved in the SLAC community. There are six subcommittees that meet as needed.



*SLUO Executive Committee members left to right: Frank Porter (Cal Tech), Greg Madejski (KIPAC) and chair Abi Soffer (Colorado State University).*

*(Photo by Diana Rogers)*

2006 are Christopher Hearty (BABAR), David Kirkby (BABAR), Grzegorz (Greg) Madejski (KIPAC) and Frank Porter (BABAR). All four new members are on the Charter Review Subcommittee. Their collective intention is to improve the SLUO mission by creating proposals for the full committee to address the changing nature of science at SLAC.

Hearty, from British Columbia University, is on the Outreach subcommittee. UC Irvine's Kirkby, currently working on BABAR, is beginning to get involved with the Large Synoptic Survey Telescope (LSST) through KIPAC. Kirkby said, "My main goal is for SLUO to play an active role in anticipating and defining the needs of particle astrophysics and cosmology users, especially those making a transition from accelerator-based HEP." He is also on the Outreach Subcommittee.

Madejski is deeply interested in the realignment of SLAC. "The nature of SLUO is changing," Madjeski stated, "along with the changing nature of SLAC." He is committed to the upcoming trip to

"Anyone who has come to SLAC and used HEP and Astrophysics facilities to do research is a part of SLUO," according to Chair Abi Soffer (BABAR).

The four members elected in

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

Washington, D.C. and looks forwards to sharing his excitement about science with Congressional representatives. Cal Tech's Porter is actively involved in the Public Meetings Subcommittee.

During the BABAR Collaboration meeting in February SLUO will hold a meeting of institutional representatives. This is an opportunity for input on Users needs and how SLUO can best help them work more effectively as part of the scientific community at the Laboratory.

For more information, see: [http://www-group.slac.stanford.edu/sluo/SLUO\\_Exec.html](http://www-group.slac.stanford.edu/sluo/SLUO_Exec.html)

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

Last update Thursday February 16, 2006 by [TIP](#)

# INTERACTION POINT

February 17, 2006

[Back to SLAC Homepage](#)

[Back to TIP Homepage](#)

In this issue:

[FRONT PAGE](#)

## FEATURES

- [A Positive Spin](#)
- [SLUO Executive Committee](#)
- [Final Days for Final Focus Test Beam](#)
- [SABER Offers FFTB Replacement](#)
- [Dancing on Ice](#)

## ANNOUNCEMENTS & UPDATES

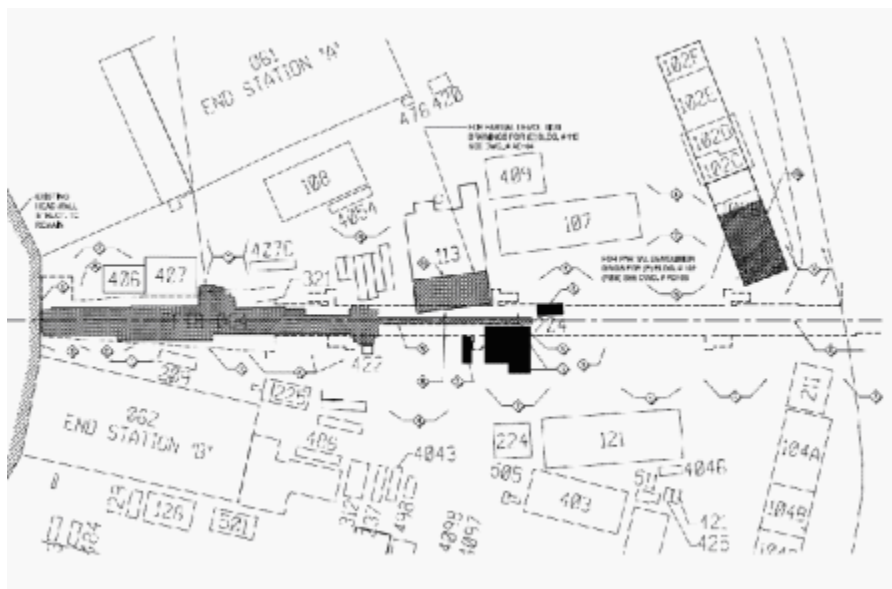
- [The Last TIP](#)
- [Safety Discipline Update](#)
- [Injury Prevention Presentation Now Available](#)
- [Welcome New Employees](#)
- [SLAC Emergency Hotline Number](#)

## Final Days for Final Focus Test Beam

By Heather Rock Woods

The Final Focus Test Beam (FFTB) enters its final days this winter. Starting April 10, SLAC will turn off beam to the facility and begin its removal to make way for construction of the Beam Transport Hall (BTH) for the Linac Coherent Light Source (LCLS).

The 200-meter beamline runs from the Beam Switch Yard at the end of the two-mile linac out into the Research Yard. About 100 meters are underground, and the remainder is visible as a long concrete building.



A bird's eye view of the Research Yard shows the Final Focus Test Beam (shaded), which will be removed to make way for the Beam Transport Hall (dashed lines) of the Linac Coherent Light Source.

(Image courtesy of Heather Rock Woods)

The FFTB was originally built to demonstrate technology for focusing and measuring sub-micron electron beams suitable for a future linear collider. Thanks to its small beam emittance and ultra-short electron bunches, it became a microcosm of SLAC, hosting experiments in astrophysics, photon science and cutting-edge accelerator research. Experimenters are currently logging as much beam time as possible before the facility shuts down.

Come 7 a.m. on April 10, phase one of the removal project begins. The Accelerator Systems Division will secure the facility for component removal, with an

- [Milestones](#)

#### EVENTS

- [10-Year Service Awards](#)
- [Public Lecture on Arsenic: The Silent Killer](#)
- [DOE Science Bowl](#)
- [Certificate in Supervision Grads](#)

#### ABOUT TIP

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

emphasis on preserving as many components as possible. Carefully considering safety issues, crews will work systematically to identify components and then disconnect electrical, water and protection systems for the FFTB with minimal interference to ongoing linac operations. Researchers will come in during phase one to remove their experimental equipment.

Phase two will begin May 1 under the direction of the LCLS Construction Directorate. A professional rigging subcontractor will remove all remaining items. That includes about 3,000 tons of concrete shielding (some individual pieces are 60-feet long and weigh 38 tons), support structures and up to 250 magnets. All the magnets will be reused at LCLS or other Lab facilities.

In early to mid-July, the LCLS Construction Manager General Contractor will begin construction in that area. The BTH will carry electrons from the linac, through the Research Yard, to the underground Undulator Hall, where ultrafast x-rays will be generated. The BTH will be 218 meters long and 27 feet wide.

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

Last update Friday February 17, 2006 by [TIP](#)



# INTERACTION POINT

February 17, 2006

[Back to SLAC Homepage](#)

[Back to TIP Homepage](#)

In this issue:

[FRONT PAGE](#)

## FEATURES

- [A Positive Spin](#)
- [SLUO Executive Committee](#)
- [Final Days for Final Focus Test Beam](#)
- [SABER Offers FFTB Replacement](#)
- [Dancing on Ice](#)

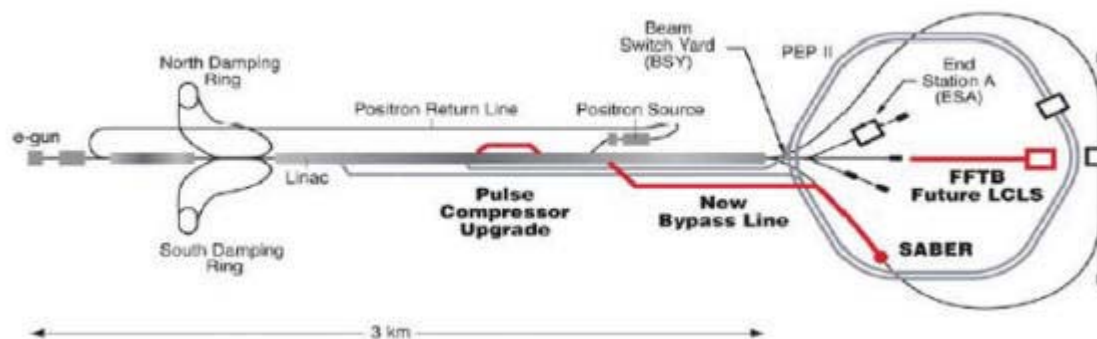
## ANNOUNCEMENTS & UPDATES

- [The Last TIP](#)
- [Safety Discipline Update](#)
- [Injury Prevention Presentation Now Available](#)
- [Welcome New Employees](#)
- [SLAC Emergency Hotline Number](#)

## SABER Offers FFTB Replacement

By Kelen Tuttle

As SLAC prepares to remove FFTB and construct the LCLS, a dozen or so researchers and engineers are designing the South Arc Beam Experimental Region (SABER). If approved, this new facility will allow the Lab to continue high energy electron beam experiments indefinitely. SLAC is the only place in the world that can provide the high peak current, high energy electron and positron beams that make this type of research possible.



*The proposed SABER beam would travel along the first two-thirds of the linac before trekking through a bypass transport line and traveling into the instrument section of the SLC South Arc tunnel.*

*(Image courtesy of C. Joshi, UCLA)*

"FFTB has accomplished science that was never anticipated when that facility was built," said Roger Erickson, who manages accelerator operations at SLAC. "SABER will allow us to continue this science during and after LCLS construction."

Like FFTB, SABER would have a small focus and pulse compression. Yet unlike the current system, SABER would add the ability to compress bunches of positrons as well as electrons. This will allow for

- [Milestones](#)

the continuation and expansion of many avenues of research, especially beam-plasma physics.

#### EVENTS

- [10-Year Service Awards](#)
- [Public Lecture on Arsenic: The Silent Killer](#)
- [DOE Science Bowl](#)
- [Certificate in Supervision Grads](#)

"SABER would deliver very short, intense bursts of electrons or positrons unlike anything available elsewhere," Erickson continued. "This will be a unique facility."

In order to run in tandem with LCLS, the SABER beam would travel along the first two-thirds of the linac before trekking through a bypass transport line and traveling into the instrument section of the SLC South Arc tunnel. By avoiding the last third of the linac, SABER would run independently of LCLS.

Before construction begins, Erickson and his collaborators must carefully assess safety implications and refine the design details and cost estimates.

#### ABOUT TIP

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

"We're at an exploratory phase right now," said Erickson. "But if all goes well, I would like to start construction of the major components in the next fiscal year."

For documentation on SABER, see: <http://www.slac.stanford.edu/grp/rd/epac/Meeting/200601/>

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

Last update Friday February 17, 2006 by [TIP](#)

# INTERACTION POINT

February 17, 2006

[Back to SLAC Homepage](#)

[Back to TIP Homepage](#)

In this issue:

[FRONT PAGE](#)

## FEATURES

- [A Positive Spin](#)
- [SLUO Executive Committee](#)
- [Final Days for Final Focus Test Beam](#)
- [SABER Offers FFTB Replacement](#)
- [Dancing on Ice](#)

## ANNOUNCEMENTS & UPDATES

- [The Last TIP](#)
- [Safety Discipline Update](#)
- [Injury Prevention Presentation Now Available](#)
- [Welcome New Employees](#)
- [SLAC Emergency Hotline Number](#)

## Dancing on Ice

By Linda DuShane White

For inspiration look no further than GLAST where Project Controls Manager Linda Price is when she is at SLAC. Before her workday begins, Price can be found in Redwood City practicing for ice skating competitions. Now 49 years old, Price began skating at 35 when she sought "something fun" outside of work and school.



Once she got going, her "competitive juices started flowing" and she did very well, undefeated in competitions for a year and a half, winning a national championship in 1994. In 1995-97 she won 3 national medals, 1 silver and 2 bronze in her age category and skill.

She finds her approach to skating has changed over the years. "It's not all about the competition," says Price. "There is a whole world of adults who skate together and support one another. It's like having a whole other family." Price also is grateful for the wonderful coaches she has had, "Great human beings who really care."

In March she will go to the USFSA (United States Figure Skating Association) in an artistic program where she will choose her own music and make her own costume, "the more sparkly the better."

Price's advice to those who want to find an avocation, "You have to be passionate about something. Find a group who enjoys the same thing." And best of all, you can do it at any age!

- [Milestones](#)

#### EVENTS

- [10-Year Service Awards](#)
- [Public Lecture on Arsenic: The Silent Killer](#)
- [DOE Science Bowl](#)
- [Certificate in Supervision Grads](#)

#### ABOUT TIP

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

*Linda Price (GLAST)*  
*(Photo by Diana Rogers)*

For more information, please see:  
<http://www.usfigureskating.org/>

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

Last update Tuesday February 14, 2006 by [TIP](#)



- [Milestones](#)

#### EVENTS

- [10-Year Service Awards](#)
- [Public Lecture on Arsenic: The Silent Killer](#)
- [DOE Science Bowl](#)
- [Certificate in Supervision Grads](#)

#### ABOUT TIP

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

The Communications Group took a first step to centralizing news and developments with the transformation of TIP into a tabloid style newspaper, also available on-line. The twice monthly distribution allowed us to include more recent news and updates (see [TIP Transformed](#)). For past issues, see TIP [Archives](#).

#### New Communications Channel

SLAC is one of the world's great research centers and with your help, the new SLAC Today will continue to echo the human vitality that drives our Lab. We want to know about your upcoming events, meetings, installations, awards, club activities, new ideas, opinion and progress. We encourage you to continue sending your thoughts and suggestions to [TIP@slac.stanford.edu](mailto:TIP@slac.stanford.edu). Your involvement and participation will help keep SLAC Today vital and interesting. The Communications Group can help with writing up stories and taking photos.

"TIP has been a great newspaper," said Neil Calder (COM), "but now we are moving forward. Thanks a lot to Nina Stolar (COM), Vickee Flynn (CEF), Chip Dalby (TIS) and Aga Egan (CEF) for their fantastic work."



*TIP editors and production team members Chip Dalby (TIS), Linda White (DO), Nina Stolar (COM) and Aga Egan (CEF). Not pictured is Vickee Flynn, long time contributor to the TIP team.*

# INTERACTION POINT

February 17, 2006

[Back to SLAC Homepage](#)

[Back to TIP Homepage](#)

In this issue:

[FRONT PAGE](#)

## FEATURES

- [A Positive Spin](#)
- [SLUO Executive Committee](#)
- [Final Days for Final Focus Test Beam](#)
- [SABER Offers FFTB Replacement](#)
- [Dancing on Ice](#)

## ANNOUNCEMENTS & UPDATES

- [The Last TIP](#)
- [Safety Discipline Update](#)
- [Injury Prevention Presentation Now Available](#)
- [Welcome New Employees](#)
- [SLAC Emergency Hotline Number](#)

## Safety Discipline Update

The Human Resources Department reports that there were no disciplinary actions for safety violations during the fourth quarter of 2005. We think this is a positive sign indicating all of us are being more attentive to the safety aspects of our day-to-day work.

Contact: Lee Lyon, Director of Human Resources, Ext. 2283, [lyon@slac.stanford.edu](mailto:lyon@slac.stanford.edu)

---

## Injury Prevention Presentation Now Available

John Cornuelle's Injury Prevention Presentation is available on-line, from the ES&H Accidents webpage under How to Reduce Accidents at Work. See: <http://www-group.slac.stanford.edu/esh/general/accidents/>

---

# INTERACTION POINT

February 17, 2006

[Back to SLAC Homepage](#)

[Back to TIP Homepage](#)

In this issue:

[FRONT PAGE](#)

## FEATURES

- [A Positive Spin](#)
- [SLUO Executive Committee](#)
- [Final Days for Final Focus Test Beam](#)
- [SABER Offers FFTB Replacement](#)
- [Dancing on Ice](#)

## ANNOUNCEMENTS & UPDATES

- [The Last TIP](#)
- [Safety Discipline Update](#)
- [Injury Prevention Presentation Now Available](#)
- [Welcome New Employees](#)
- [SLAC Emergency Hotline Number](#)

## Welcome New Employees!



*The new employee orientation held on February 2 included (left to right): Salvacion (Siony) Matni (HR), Paul Ehrensberger (SMB), Roy Myer (CEF), Venkat Srinivasan (LCLS), Stephen Norum (LCLS), Tracy Young (BSD) and Elaine Krumlauf (PPA). Not pictured: Katerina Ioakeimidi (ILC)*

*(Photo by Diana Rogers)*



# INTERACTION POINT

February 17, 2006

[Back to SLAC Homepage](#)

[Back to TIP Homepage](#)

In this issue:

[FRONT PAGE](#)

## FEATURES

- [A Positive Spin](#)
- [SLUO Executive Committee](#)
- [Final Days for Final Focus Test Beam](#)
- [SABER Offers FFTB Replacement](#)
- [Dancing on Ice](#)

## ANNOUNCEMENTS & UPDATES

- [The Last TIP](#)
- [Safety Discipline Update](#)
- [Injury Prevention Presentation Now Available](#)
- [Welcome New Employees](#)
- [SLAC Emergency Hotline Number](#)

## The SLAC Emergency Hotline Number:

**1-877-447-SLAC (7522)**

Please make a note of the SLAC Emergency Hotline number. In the event of an emergency, the most current information about SLAC will be a single phone call away.

# INTERACTION POINT

February 17, 2006

[Back to SLAC Homepage](#)

[Back to TIP Homepage](#)

In this issue:

[FRONT PAGE](#)

## FEATURES

- [A Positive Spin](#)
- [SLUO Executive Committee](#)
- [Final Days for Final Focus Test Beam](#)
- [SABER Offers FFTB Replacement](#)
- [Dancing on Ice](#)

## ANNOUNCEMENTS & UPDATES

- [The Last TIP](#)
- [Safety Discipline Update](#)
- [Injury Prevention Presentation Now Available](#)
- [Welcome New Employees](#)
- [SLAC Emergency Hotline Number](#)

## MILESTONES

### SERVICE AWARDS

#### February

##### 5 Years

Gowdy, Stephen (EC), 2/16  
 Kornienko, Lyubov (TIS), 2/26  
 Ly, Thanh Ky (DO), 2/16  
 Sutherland, Jean (UK), 2/16

##### 10 Years

Lewis, James (MD), 2/16

##### 25 Years

Traller, Robert (CPE), 2/17

##### 30 Years

Hettel, Robert (ASD), 2/19

#### March

##### 5 Years

Amrhein, Karl (SCCS), 3/12  
 Brobeck, Kenneth (CPE), 3/28  
 Dill, Ann (RP), 3/20  
 Howard, David (SCCS), 3/8  
 Huser, Carmella (HR), 3/5  
 Kotturi, Karen (LCLS), 3/21  
 Laznovsky, Michael (CPE), 3/1  
 Rodriguez, German (CPE), 3/1  
 Wittgen, Matthias (SCCS), 3/14

<ul style="list-style-type: none"> <li>• <a href="#">Milestones</a></li> </ul>	<p><b>10 Years</b> Frener, Oscar (MD), 3/11 Medvedko, Evgeny (CPE), 3/4</p>
EVENTS	
<ul style="list-style-type: none"> <li>• <a href="#">10-Year Service Awards</a></li> <li>• <a href="#">Public Lecture on Arsenic: The Silent Killer</a></li> <li>• <a href="#">DOE Science Bowl</a></li> <li>• <a href="#">Certificate in Supervision Grads</a></li> </ul>	<p><b>15 Years</b> Evans, Ian (PSD), 3/25 Le Cocq, Catherine (MET), 3/1 Ng, Cho-Kuen (ACD), 3/11</p> <p><b>20 years</b> Waite, Anthony (GLAST), 3/13</p>
ABOUT TIP	
<ul style="list-style-type: none"> <li>• <a href="#">Staff/Contact</a></li> <li>• <a href="#">Submission Guidelines</a></li> </ul>	<p><b>25 Years</b> Downey, Teresa (SCCS), 3/23 Ernst, David (ASD), 3/16 Hung, Terry (EC), 3/30 Krzyszczak, John (CPE), 3/2 Woodley, Mark (ILC), 3/1</p>
	<p><b>30 Years</b> Manley-Arrieta, Daniel (CEF), 3/22</p> <p><b>Retired</b> Wiedemann, Helmut (SSRL), January 2001</p> <p>To submit a Milestone, see: <a href="http://www.slac.stanford.edu/pubs/tip/milestoneindex.html">http://www.slac.stanford.edu/pubs/tip/milestoneindex.html</a></p> <p>See Awards and Honors at: <a href="http://www.slac.stanford.edu/slac/award/">http://www.slac.stanford.edu/slac/award/</a></p>

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

Last update Tuesday February 14, 2006 by [TIP](#)

# INTERACTION POINT

February 17, 2006

[Back to SLAC Homepage](#)

[Back to TIP Homepage](#)

In this issue:

[FRONT PAGE](#)

## FEATURES

- [A Positive Spin](#)
- [SLUO Executive Committee](#)
- [Final Days for Final Focus Test Beam](#)
- [SABER Offers FFTB Replacement](#)
- [Dancing on Ice](#)

## ANNOUNCEMENTS & UPDATES

- [The Last TIP](#)
- [Safety Discipline Update](#)
- [Injury Prevention Presentation Now Available](#)
- [Welcome New Employees](#)
- [SLAC Emergency Hotline Number](#)
- [Milestones](#)

## 10-Year Service Awards



*Once a year SLAC recognizes those individuals who have given ten years of service to the organization as employees. These awardees were recognized on January 31, 2006.*

*Left to right: Sam Park (ETS), Patricia Prickett (CPE), Michelle DeCamara (EP), Yo Wackerman (BAS), Michael Sullivan (ASAD), Joe Schwiening (EB), Jennifer Huang-Le (SCCS), David Marcello (SCCS), Fred Murphy (TT), Juanito Buhain (CPE), Ray Russ (RP), Michael Benes (KLY), David Anderson (CPE), Ron Johnson (CPE), Glenn Scheitrum (KLY), Javier Sevilla (LCLS), Cameron MacKenzie (MFD), Lisa Adair (CEF), John Schmerge (ADC), Hank Atilas (MD) and Zenghai Li (ACD). Awardees not pictured are Vinod Bharadwaj (ILC), Derrick Britt (MD), Joseph Christy (RP), Jack Fry (CEF), Juan Garcia (CPE), Ninos George (CPE), Jeff Lwin (SCCS), Tim Montagne (LCLS), Andrew Ringwall (BLD), James Smith (EP), Al Suarez (MFD) and Stephen Weathersby (ASAD).*

*(Photo by Diana Rogers)*

# INTERACTION POINT

February 17, 2006

[Back to SLAC Homepage](#)

[Back to TIP Homepage](#)

In this issue:

[FRONT PAGE](#)

## FEATURES

- [A Positive Spin](#)
- [SLUO Executive Committee](#)
- [Final Days for Final Focus Test Beam](#)
- [SABER Offers FFTB Replacement](#)
- [Dancing on Ice](#)

## ANNOUNCEMENTS & UPDATES

- [The Last TIP](#)
- [Safety Discipline Update](#)
- [Injury Prevention Presentation Now Available](#)
- [Welcome New Employees](#)
- [SLAC Emergency Hotline Number](#)

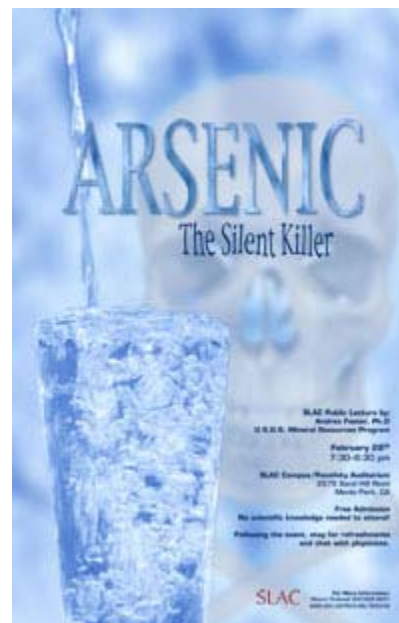
Next talk in the SLAC Public Lecture Series:

## Arsenic: The Silent Killer

**Andrea Foster, USGS**

Tuesday, February 28, 7:30 p.m.  
Panofsky Auditorium

Free Admission; no reservations necessary.  
Please bring photo ID.



(Image by Terry Anderson)

- [Milestones](#)

#### EVENTS

- [10-Year Service Awards](#)
- [Public Lecture on Arsenic: The Silent Killer](#)
- [DOE Science Bowl](#)
- [Certificate in Supervision Grads](#)

#### ABOUT TIP

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

Andrea Foster, SSRL user and scientist with the Mineral Resources Program at the U.S. Geological Survey, uses x-rays to determine the forms of potentially toxic elements in environmentally-important matrices such as water, sediments, plants and microorganisms. Foster will discuss her research on arsenic, which is called the silent killer because when dissolved in water, it is colorless, odorless and tasteless. Consumption of relatively small doses of this element in its most toxic forms can cause rapid and violent death. Arsenic is a well-known poison and has been used since ancient times. Less well known is the fact that much lower doses of the element, consumed over years, can lead to a variety of skin and internal cancers that can also be fatal. Currently, what has been called the largest mass poisoning in history is occurring in Bangladesh, where most people are by necessity drinking ground water that is contaminated with arsenic far in excess of the maximum amounts determined to be safe by the World Health Organization. This presentation will review the long and complicated history with arsenic, describe how x-rays have helped explain the high yet spatially variable arsenic concentrations in Bangladesh, discuss the ways in which land use in Bangladesh may be exacerbating the problem, and summarize the impact of this silent killer on drinking water systems worldwide.

For more information, see:

[http://www2.slac.stanford.edu/lectures/info\\_2006/2006\\_02\\_28.htm](http://www2.slac.stanford.edu/lectures/info_2006/2006_02_28.htm)

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

Last update Tuesday February 14, 2006 [TIP](#)

# INTERACTION POINT

February 17, 2006

[Back to SLAC Homepage](#)

[Back to TIP Homepage](#)

In this issue:

[FRONT PAGE](#)

## FEATURES

- [A Positive Spin](#)
- [SLUO Executive Committee](#)
- [Final Days for Final Focus Test Beam](#)
- [SABER Offers FFTB Replacement](#)
- [Dancing on Ice](#)

## ANNOUNCEMENTS & UPDATES

- [The Last TIP](#)
- [Safety Discipline Update](#)
- [Injury Prevention Presentation Now Available](#)
- [Welcome New Employees](#)
- [SLAC Emergency Hotline Number](#)
- [Milestones](#)

## DOE Science Bowl at SLAC

### And the winners are...

First Place Team: The Harker School, San Jose  
 Second Place Team: Lowell High School, San Francisco  
 Third Place Team: Abraham Lincoln High School, San Jose



*The Harker School team came in first place and received their trophies from Martin Perl (shown far right) during the Award Ceremony at the end of the day. They will be competing at the DOE National Science Bowl in Washington D.C., April 27-May 1.*

*(Photo by Diana Rogers)*

To all competing teams who joined us on Saturday thank you so much for impressing us all with your scientific prowess! Your coaches and teachers must certainly be proud of your exceptional efforts this year!

The Science Bowl Planning Committee would like to thank everyone who volunteered this year—it was fantastic event, thanks to you!

For more information please see:  
<http://www2.slac.stanford.edu/scibowl>

# INTERACTION POINT

February 17, 2006

[Back to SLAC Homepage](#)

[Back to TIP Homepage](#)

In this issue:

[FRONT PAGE](#)

## FEATURES

- [A Positive Spin](#)
- [SLUO Executive Committee](#)
- [Final Days for Final Focus Test Beam](#)
- [SABER Offers FFTB Replacement](#)
- [Dancing on Ice](#)

## ANNOUNCEMENTS & UPDATES

- [The Last TIP](#)
- [Safety Discipline Update](#)
- [Injury Prevention Presentation Now Available](#)
- [Welcome New Employees](#)
- [SLAC Emergency Hotline Number](#)

## Certificate in Supervision Grads



*Graduates who attended the 5th Certificate in Supervision Luncheon, held on January 27, 2006, shown left to right.*

*First Row: Francisco Prado (BLE), Michael Smith (CEF), Vivian Lee (AAO), Jack Rozenbaum (BLE), Kayon Louie (MD), Ernest Denys (SCS), Alfonso Ray Manuel (CEF).*

*Second Row: Tim Winstead (MD), Burl Skaggs (CEF), Stan Mansell (MD), David Kharakh (AD), Mario Ortega (LCLS), Hesham Khater (OHP), Jean-Raymond Pierre (SCS).*

*Third Row: Bennett Poling (ENG), Kenneth Yang (CEF), John Bartelt (SCS), Kevin Purcell (KM), Rainer Bartoldus (EC), Paul Bloom (KM), Pete Franco (MFD), Ruth McDunn (TIS), Laurie Escudero (BU), Carolyn Galayda (CEF)*

*Not Pictured: Hsiu-Ju (Jessica) Chiu (SG), Alan Fisher (AD), James Kang (CEF), Denise Larsen (MFD), Victor Longa (CEF), Raymond Radau (CEF), Joe Stafford (CEF), Massimiliano Turri (SCS), Ken Underwood (CPE) and Sharon West (TIS).*

*(Photo by Diana Rogers)*



# INTERACTION POINT

February 17, 2006

[Back to SLAC Homepage](#)

[Back to TIP Homepage](#)

In this issue:

[FRONT PAGE](#)

## FEATURES

- [A Positive Spin](#)
- [SLUO Executive Committee](#)
- [Final Days for Final Focus Test Beam](#)
- [SABER Offers FFTB Replacement](#)
- [Dancing on Ice](#)

## ANNOUNCEMENTS & UPDATES

- [The Last TIP](#)
- [Safety Discipline Update](#)
- [Injury Prevention Presentation Now Available](#)
- [Welcome New Employees](#)
- [SLAC Emergency Hotline Number](#)
- [Milestones](#)

## About Us:

## The Interaction Point

### Editorial Team

Neil Calder  
Nina Adelman Stolar  
Vickeye Flynn  
Ziba Mahdavi

### Writers

Melinda Lee  
Kelen Tuttle  
Erik Vance  
Linda DuShane White  
Heather Rock Woods

### Photography

Diana Rogers

### Distribution

Tineke Graafland

### Layout & Graphics

Agnieszka Egan

### On-line Edition

Nina Stolar

*The Interaction Point* is published twice monthly every first and third Friday. Submissions are due the second and fourth Tuesdays of each month.

Send submissions to [tip@slac.stanford.edu](mailto:tip@slac.stanford.edu), or mail to TIP Editor, MS 58, Stanford Linear Accelerator Center

#### EVENTS

- [10-Year Service Awards](#)
- [Public Lecture on Arsenic: The Silent Killer](#)
- [DOE Science Bowl](#)
- [Certificate in Supervision Grads](#)

#### ABOUT TIP

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

2575 Sand Hill Road, Menlo Park, CA 94025.

TIP is available on-line at:  
<http://www2.slac.stanford.edu/tip/>

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

Last update Friday February 17, 2006 by [TIP](#)