



Northern California Chapter of SAMPE

Presents



Tour of SLAC (Stanford Linear Accelerator Center)

The Northern California Chapter of SAMPE will be hosting a tour of SLAC (Stanford Linear Accelerator Center) followed by dinner at Capriccio's

SLAC is one of the world's leading research laboratories. Established in 1962, it is operated by Stanford University in Menlo Park, CA for the US Department of Energy. SLAC's mission is to design, construct and operate state-of-the-art electron accelerators and related experimental facilities for use in high-energy physics and synchrotron radiation research.

SLAC is recognized internationally with 3,000 visiting scientists from US universities, national laboratories, industrial concerns and foreign countries. It has a highly trained and award winning staff of physicists, engineers, computer scientists and other professionals and whose work is recognized with three Nobel Prizes in physics.

For more information, visit www.slac.stanford.edu. Please also see the article on the following page of our newsletter on the proposed collider which may be built here.

November 13, 2002

SLAC

**2575 Sand Hill Road
Menlo Park CA**

Meet at Visitor's Center (Building 43): 4:00 PM

Tour will last approximately 2 hours.

Capriccio Ristorante Italiano

**325 Sharon Park Dr # 25
Menlo Park, CA**

**No Host Cocktails: 6:30 PM
Dinner: 7:00 PM**

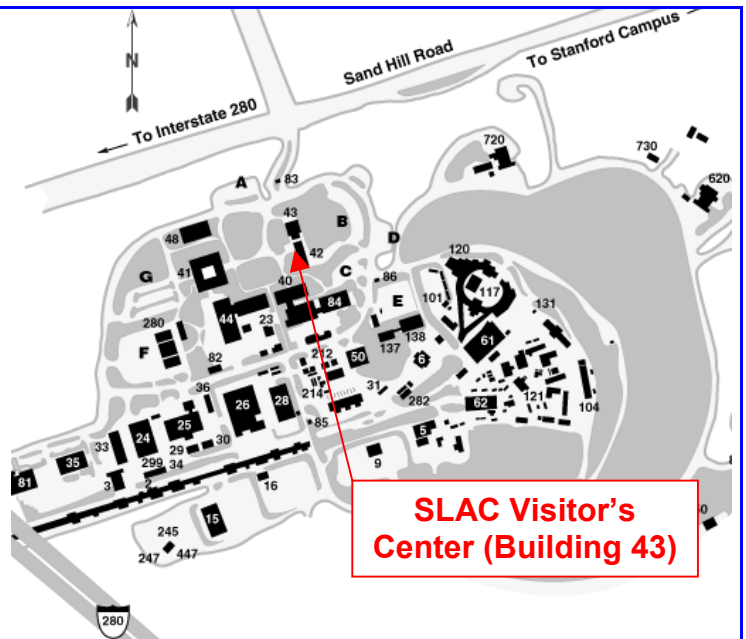
**Food Selections: Chicken Piccata
Grilled Salmon, Chicken & Artichokes, Tagliatelle
Bolognese, & Veal Marsala**

**Members: \$20.00 Guests: \$20.00*
Non Members: \$25.00 Students: \$10.00**

**Contact: Jack Jew 408-743-6775 jack.jew@lmco.com
or Carroll Bergdahl 408-446-4680 cbergdahl@aol.com**

**Reservations requested by 4:00 pm on Monday,
November 11th**

*Members may bring one prospective member as a guest at a reduced price.





Stanford Linear Accelerator Center

It's 5th Decade of Helping Shape a Revolutionary New Way of Doing Particle Physics.

On October 29, 2002 the San Jose Mercury News published a lengthy article on SLAC's newest project whose size, scope and international flavor are unlike anything before. It is timely that Northern California SAMPE is planning a tour there on November 13, 2002.

This new project plan involves building a machine 20 miles long and 100 feet below the ground. It will involve thousands of scientists using it to carry out experiments. Researchers at SLAC and Japan have come up with one possible design. Like the existing collider it would smash electrons into positrons, which is their antimatter opposites. The new machine would generate electrons at the end of one arm and positrons at the end of the other and bring them together in the middle. The proposed next Linear collider would be 20 miles long and cost between \$6 to \$8 billion. The Stanford Linear Collider has been operating since 1966. Its costs were \$115 million. The collider itself stopped operating when its experiments ran their course. The original accelerator is still used to generate high-speed particles for other experiments.

At this point the collider is still a dream. Its design and site have not been chosen. Three locations have been scouted. The Central Valley of California, in Illinois, and one near Hamburg, Germany. Particle physics has long been one of the most collaborative sciences. This is because the equipment needed to smash particles together and discover their secrets has grown so big, expensive, and technically challenging that no single country can go it alone.

Jonathan Dorfan, the director of SLAC, said the next linear collider is just one of several projects that he is counting to carry it into the next decades. But it's a critical part of the laboratory's future; no matter which design is chosen or where the collider is built.

Chapter Coming Events

December 10, 2002: "V-22 Tiltrotor and Other Developments" presented by Dr. John Zuk and Dr. Leonard Haslim of NASA Ames Research Center (Michaels at Shoreline)

January 23, 2003: Annual Composites Workshop (Michaels at Shoreline) – **for more information see below**

February 12, 2003: Membrane Mirror Technology – TBD (Michaels at Shoreline)

March 12, 2003: Joint ASM Meeting – TBD

April 9, 2003: TBD

May 14, 2003: Tour of [4th State](#) and BBQ - TBD

Annual Composites Workshop

Our annual Composites Workshop will be held on January 23, 2003 at Michaels at Shoreline. This year we've tapped our own Stan Peters as Workshop Chairman and the tentative line-up of speakers is really looking good:

Dr. Brian Spencer (Spencer Composites) – Composite Drill Risers
J.M. Bai – Vacuum Bag Curing
Brian Wilson (Wilson Composites Group) - Composites with Cryogenics
Scott Peck (Space Systems/Loral) – Honeycomb Sandwich Structures

Other topics we're pursuing are vacuum bag curing of autoclave resin systems, spacecraft composite structures, and new fiber and resin technology.

Additionally we will have sponsor table top exhibits. This is shaping up to be a great workshop and we hope you can join us. If you would like more information, please contact Stan Peters at 650-968-1624
stpeters@earthlink.net.

Chapter Monthly Meeting and Workshop Speakers Needed.

We're always looking for speakers for our monthly meetings and workshop with new and exciting topics to share. Have you recently written a paper or given a presentation on some new work you're doing or know someone who has? If so, it may make a great presentation for our monthly meeting which will allow you to share your work and get feedback from peers. If you have a presentation you would like to make or simply have a suggestion for one you would like to see, please contact Carroll Bergdahl at 408-446-4680 cbergdahl@aol.com or Bill Mellberg at 408-743-1192 bill.mellberg@lmco.com.

2003 Chapter Sponsors Needed

We are now looking for chapter sponsors for 2003. The contribution for sponsorship is only \$150.00 per year payable in January. The amount of this contribution has not been raised for many years so that it would not be a financial hardship on small companies, but would be more of a commitment and public demonstration of your support for our local Northern California SAMPE Chapter.

Sponsorship provides a number of excellent opportunities for good exposure and publicity for your company to our Northern California SAMPE members and guests who attend our monthly meetings and to the many attendees to our Annual Composite Workshop. What your company will receive from this Sponsorship I think far surpasses the expense:

- Sponsors will have the opportunity to have a Table-Top Exhibit at our Annual Composite Workshop with a 30 minute break scheduled in the morning and in the afternoon for attendees to make the rounds of the Exhibits and talk to Sponsor Representatives that are there. The Workshop this year will be on January 23rd at Michaels at Shoreline. We expect 80 –90 attendees this year. For more workshop information, see notice above.
- Sponsors are listed in our Monthly Newsletter/Meeting Announcement Bulletin which you are reading right now. As you can see, we will include your logo, contact information, and hyperlinks to your e-mail address and web page. The newsletter is currently mailed to over 300 members and colleagues!
- A Sponsor may also have a Table-Top Exhibit at any monthly meeting if it is pre-arranged.

We encourage your support. To continue your sponsorship or to become a new sponsor, please contact Derek Edinger at 650-852-6157 or edinger.derek@ssd.loral.com.

SAMPE International Coming Events

April 1-3, 2003: SAMPE Europe Conference 2003, 24th International Conference and Forum, Paris Expo, Paris Port de Versailles, France

May 11-15, 2003: SAMPE 2003 (48th ISSE) Symposium /Exhibition, Long Beach, CA

September 28-October 2, 2003: 35th International SAMPE Technical Conference, Dayton, OH

Scientist/Engineer Advisor Volunteers Needed

Scientist/engineer volunteer advisor volunteers are needed by an organization called Science Buddies. The program is ideally suited for professionals in that it is email/web-based and thus very flexible. In essence, the volunteer serves as advisor to a science fair project team composed of a middle school student (who do the project) and a high school student mentor. Advisors spend 1-2 hours/week helping their teams during the science fair season (November through March). If you would like more information on Science Buddies, go to www.sciencebuddies.org or contact Paul DeCarli at pdecarli@unix.sri.com.

Northern California Chapter of SAMPE Board Meeting

The board meets once a month, usually on the first Wednesday of the month, to plan technical meetings, organize the Composite Workshop, and take care of organizational activities such as the newsletter, new officers, scholarships, etc. The meetings are held during the dinner hour and we eat and meet. They start at 5:30 and are usually finished by 7:30.

New officers are often old timers who seem to be able to volunteer their time to their profession in some way. We really try not to put too many demands on anyone and often you can do a lot of your SAMPE work during lunch hours. Our membership has dropped below 200 members when just a few years ago we were at 750. Mailing the newsletter was really a big job then! We need to have you help by attending meetings, making suggestions for technical speakers, or volunteering yourself to deliver a paper. Our board noticed there are not too many papers on space applications in the 2002 Symposium in Long Beach. Well, the New Jersey Chapter probably would have loved to have five to ten papers on that subject. Someone needs to make the suggestions to the right people at the right time. If you have suggestions or would like to participate as an officer or just talk with the board, call Carroll Bergdahl at 408-446-4680 or email: cbergdahl@aol.com.




Northern California Chapter of SAMPE 2002-2003 Officers

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