CHEMIST RECEIVES 2000 NATIONAL MEDAL OF SCIENCE

BY TECH STAFF

On November 13, John Baldeschwieler, J. Stanley Johnson Professor and professor of chemistry, emeritus, was named one of this year’s twelve Caltech recipients of the National Medal of Science. A member of the Caltech faculty since 1973, Baldeschwieler was cited for his work on molecular assemblies used for the delivery of pharmaceuticals, for his work on scientific instrumentation, and particularly for his development of ion cyclotron resonance spectroscopy.

“I am delighted with the recognition that the award brings to our work at Caltech, and to the extraordinarily talented group of students that I’ve had the privilege to work with over the past four decades,” Baldeschwieler said after receiving notification.

President Baltimore, a 1999 recipient of the National Medal of Science, said the award is a fitting tribute to Baldeschwieler’s pioneering work in a wide range of fields. “The National Medal of Science is America’s most prestigious science honor, and I think it’s appropriate that the award goes to John for his many contributions to science as well as for his public service.”

A native of New Jersey, he earned his doctorate at Berkeley in 1959. Baldeschwieler joined the Caltech faculty after several years at Harvard and Stanford universities. He was also a member of the President’s Science Advisory Committee from 1969 to 1972, serving as vice chairman from 1970 to 1972. He served as deputy director of the Office of Science and Technology from 1971 to 1973. Baldeschwieler pioneered the use of nuclear magnetic resonance and double resonance spectroscopy, nuclear Overhauser effects, and perturbed angular correlation spectroscopy in chemical systems. His recent work concentrates on the use of phospholipid vesicles in cancer diagnosis and therapy, the development of scanning tunneling and atomic force microscopy.

L. Sprague de Camp, Sci-Fi author and alum, dies

BY ROBERT Li

Lyon Sprague de Camp, famed science-fiction writer and graduate of Caltech, passed away on November 6. He follows his wife of 60 years, Catherine, who left this world on April 9. Sprague de Camp graduated from Caltech with a BS in Aeronautical Engineering. Three years later he received a MS in aeronautical engineering from the Stevens Institute of Technology and during the Depression, wrote science fiction stories for Astounding magazine.

In 1930, after spending his childhood in New York City, L. Sprague de Camp graduated from Caltech with a BS in Aeronautical Engineering. Three years later he received a MS in aeronautical engineering from the Stevens Institute of Technology and during the Depression, wrote science fiction stories for Astounding magazine. He served his country during World War II as Lt. Commander in the US Naval Reserve. After the war, L. Sprague de Camp became a full time writer.

The prolific career of L. Sprague de Camp includes over 120 science fiction and fantasy novels, hundreds of short stories, and well-known non-fiction works in history, science, and biography. Some of his works of fiction include: the Thinking Bear series of science fiction short stories; short stories featuring Conan the Barbarian, a character first created by the late Robert E. Howard; “Rivers of Time”; and perhaps the most well-received of his works, “Lest Darkness Fall”. L. Sprague de Camp’s works of non-fiction include recognized pieces such as “The Ancient Engineers” and “The Great Monkey Trial”.

Besides writing, L. Sprague de Camp has worked as an educator, lecturer, engineer, patent expert, and publicity writer. He has also traveled the world with his wife and colleagues to do research for his books.

Among the many accolades that L. Sprague de Camp received in his half-century of writing are such honors as the Nebula Award in 1978, the Grand Master Award for Lifetime Achievement in Fantasy, and the Hugo Award in 1997. As a veteran, L. Sprague de Camp and his wife will be laid to rest in Arlington Cemetery.

Science Fiction Film as History

BY TECH STAFF

“The Science Fiction Film as History,” a course Professor Robert Rosenstone offers every other year, will this winter term become part of a Pasadena celebration entitled “The Universe.”

The spring festival will include exhibits and other events at the Norton Simon Museum, the Art Center College of Design, the Huntington Library, the Armory Art Center, and One Colorado, and will feature concerts by the Southwest Chamber Orchestra. Four of the nine films for Rosenstone’s course will be open to the campus community and the general public. Each will be followed by a panel discussion that will include well-known scientists, humanists, and possibly filmmakers.

The four films will be “Contact” (Jan. 14), “Things to Come” (Jan. 30), “The Day the Earth Stood Still” (Feb. 15), and...
Annual engineering design Contest: Teamwork Introduced

by Homer

The 16th annual Caltech Engineering Design Contest will be held on Thursday November 30, 2000 starting at 2:00 pm in Beckman Auditorium. Spectators are welcome. Admission is free.

Engineering is primarily the process of creating new things to solve problems. The purpose of this course (Engineering Design is one attempt to provide students with a real-world opportunity to learn about the design of new things, and the solution of open-ended, ill-defined problems.

At the beginning of the term the students are given a design task, a "bag of junk," and 10 weeks to design and fabricate a device. The task is a competitive one, and is different each year. Each participant (working as part of a team of two) must design, prototype, fabricate, assemble, test, debrief, and tune a device to compete against pairs of classmates' devices. Only the materials provided in the "bag of junk" are permitted. A typical year's "junk" includes: plexiglass, aluminum, a few ball bearings, bracing, brass tubing, a few pulleys and rollers, and other miscellaneous surplus "junk" that can be found in sufficient quantity.

Before the annual Schlumberger contribution (beginning in 1987), the power source supplied to the students was rubber bands. Since that time we have been able to provide two (or more) electric motors each. Donation of funds by many sponsors has enabled us to provide each student with high quality "junk." The display case in the middle of the first floor of the Thomas building indexes several of the students' devices from the previous contest, the trophy, and a display of the contents of the "bag of junk." Six years ago the students designed and built devices that collected golf-balls from a trough. Five years ago the devices delivered a pre-loaded collection of ping-pong balls to a drain. Four years ago the devices had to gather and sink golf balls into a central drain. Three years ago the devices moved hockey-pucks, golf-balls, and hose-washers out of their side of the table, across an 8-inch high ridge. Two years ago the devices, in teams of two, gathered ping-pong balls from a central bar and moved them in a soccer-like game into goals at each end of the table. Last year the devices, in teams of two, attempted to attach plastic shapes to a vertical Velcro-covered wall. This year's contest is entirely different, and requires students, again working in teams of two, to design and build individual devices that compete together.

There is an attempt each year to provide a real-world focus to the contest. This year there is a limited amount of time. The hardware resources are limited. Team members must negotiate over size, scope and design. There are many competing requirements, and overall strategy is a crucial initial decision. Every effort is made to make the contest scrupulously fair; all students have exactly the same raw materials and time, and access to tools and machine tools. The only variability is the student's learning, talent and expertise.

Many lessons come out of the class, including: working in design teams; management and planning of time in the design cycle; decision-making in an uncertain environment; the benefits of prototyping and testing; and the benefits of modular easy-to-repair designs; the interaction between design and manufacturing; and an experience with open-ended problem solving.

The tournament begins at 2:00 pm and lasts about an hour and a half. Additional information on the course and contest is available at: http://www.design.caltech.edu/Courses/ME72/
Letters, Lectures, and Culture

WHAT'S WITH ALL THIS WATSON LECTURE STUFF ANYWAY?

BY JONATHAN FOSTER

Dr. Judith Goodstein, author of several books about Caltech and the institute's first archivist but better known to the undergraduate community as the Registrar, presented the latest in the Beckman Auditorium. "Memories of Caltech Past", combined a slide presentation and talk with a short video highlighting memorable moments from Caltech's past.

The memorable moments focused primarily on familiar past personalities at Caltech and what Dr. Goodstein referred to as "Caltech Culture". The culture slides primarily focused on Caltech traditions and pranks: the Halloween pumpkin drop, Ditch Day, Commencement (which is always held outside), the many pranks on the Rose Bowl and certain notable decorations of Millikan Library. These sorts of things are fairly familiar to Caltech students. However, Dr. Goodstein had some less well-known anecdotes also.

Millikan, who essentially established Caltech as we know it today, was a brilliant scientist (Caltech's first Nobel Prize Winner) but a difficult administrator. Apparently, being a professor in Millikan's time was almost as difficult as being a student today. Millikan was famously against vacations, and whenever a professor asked for time off he is reputed to have replied, "Why do you want a vacation, don't you like your work?"

Another interesting story Dr. Goodstein told was the tale of Caltech's seal. Millikan commissioned a seal in the early 1920's which depicted two figures in the sky, one on a cloud, the other passing a torch to the younger. However, this seal was never officially approved by the Board of Trustees. In 1969 a new seal appeared on the information

(300 E. Green).

Those of you with more class should clear your calendars tonight and Sunday. Tonight at 8 pm, the Caltech-Oxy Orchestra will hold their free end-of-the-term concert in Ramo Auditorium. Support musical Techers (what a concept) and enjoy the wine and cheese offered at the reception following the concert. Sunday in Beckman Auditorium at 3:30 there will be a Coleman Chamber Concert. The Coleman Concerts are always excellent and this week it is the Brazilian Guitar Quartet. The Groups that appear in the Coleman Concerts are always world-class performers and well worth seeing. Tickets for Techers are only $5.

LETTERS TO THE EDITOR

Dear anonymous,

It is customary and proper for critics to present their ideas openly. You know, all that stuff about being able to confront your accuser. Anonymous, it seems to me that you have let anger take hold of you and lead you on. My editorial was a comment on US News & World Report's evaluation of Caltech. We are obviously not the school for everyone. When there is a mismatch we help students find more satisfactory ways to get the kind of education they want.

This being said, you seem particularly upset about opportunities to meet Profs and do research. There are 63 students having declared a major in biology, the division I know best of. These, 20 signed up for a research course (Bi 22), this term. On drop day, sixteen were left. Eight students are enrolled in Bi 90, (Thesis Research). In addition there will be some students working for pay, but I do not know how many. So discounting these, 20 students working out of 63, means nearly 30% have found labs in which to work.

Jean-Paul Revel

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The Coleman Concerts are always excellent and this week it is the Brazilian Guitar Quartet. The Groups that appear in the Coleman Concerts are always world-class performers and well worth seeing. Tickets for Techers are only $5.

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November 17, 2000

The California Tech
The California Tech

November 17, 2000

The Outside World

by Erik Dill

Sarasota, Florida—A U.S. Air Force F-16 collided in mid air with aprivate Cessna. The Cessna pilot was killed, but the military pilot ejected safely.

Moscow, Russia—President Vladimir Putin’s cabinet authorized abandoning the Mir space station. Currently, the Russians plan to crash Mir into the central Pacific in February.

Vargas, Venezuela—A state of emergency has been declared and thousands are homeless due to severe flooding.

Congo, Africa—1.6 million people have fled their homes due to an increase in rebel fighting in the north and east.

Los Angeles—3 of 4 defendants in the first Rampart police corruption case were convicted of conspiracy to obstruct justice and filing false police reports.

Phoenix, Arizona—State Representative Steve May was honorably discharged from the Army reserves for being gay. In upholding the discharge Maj. General John L. Scott said that May violated the Army’s "don’t ask, don’t tell" policy when he acknowledged his homosexuality in a legislative debate, even though it was in no way connected with his duties as a reservist.

Beijing, China—A gathering of poets sponsored by the Communist Youth League was canceled after officials learned that dissident writers were invited. Two poets were subsequently arrested and are being held in jail for organizing the "illegal gathering".

Ann Arbor, Michigan—A University of Michigan student died of alcohol poisoning after trying to celebrate his 21st birthday by drinking one shot for every year of his life. He downed 20 shots of scotch in an estimated 10 minutes and had a post-mortem blood alcohol content of .39.

Nairobi, Kenya—68 people died and 245 were hospitalized after drinking moonshine which had been diluted with methanol. Home brewed alcohol is often cut with high-octane fuel or methylated spirits to give it a kick.

Shimonoseki, Japan—A fleet of five Japanese whaling ships left port for the Antarctic to hunt minke, Bryde's and sperm whales. President Clinton criticized the action, though Japan defends its whaling as necessary for scientific research.

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The world

Medal:

Continued from page 1

croscopy for the study of molecules on surfaces, and on novel techniques for producing combinatorial arrays of oligonucleotides.

Baldeschwieler was a founder of Vestar Inc., and served as chairman of the company’s board of directors until it merged with NeXagen Inc. Baldeschwieler was also a founder and director of Combion, Inc. He currently serves as a managing director of the Athenaeum Fund and is a director of Drug Royalty Corporation Inc., the Huntington Medical Research Institutes, Pasadena Entretec, and several privately held companies.

One of twelve recipients this year, Baldeschwieler will receive his award at the White House on December 1. There have been 386 recipients since the medal was established in 1959 to honor scientists who have had an impact on human knowledge in a variety of scientific and engineering fields.

Baldeschwieler is the 46th person affiliated with Caltech to receive the National Medal of Science. The first year the medal was offered, the only recipient was also a Caltech professor, Theodore Von Kármán. Other Caltech winners in the past include Linus Pauling, Richard Feynman, and Arnold Beckman. (A full list can be found online at: http:// nmtm.caltech.edu/developingnews_room/AtnMedSci-frame.html)

Watson:

Continued from page 3

for the inaugural address of Harold Brown (Caltech’s 2nd president). This seal was nearly identical to the current one, and the Board of Trustees officially adopted it as Caltech’s seal. The students took exception to this, and the old seal was left on the diplomas, which is why Caltech’s diplomas have two different seals on them.

Finally, Dr. Goodstein told the story of Earnest C. Watson, a brilliant scientist and lecturer who introduced the tradition of evening lectures at Caltech by presenting lectures in 201 E. Bridge. The Watson Lecture series was re-named in his honor in 1972. This series continues next year on January 17, when Dr. Ken Libbrecht will be presenting “The Physics of Snow Crystals.”
Seagate welcomes WARREN MILLER to CALIFORNIA INSTITUTE OF TECH PASADENA CIVIC CENTER FRIDAY, DECEMBER 1, 8:00 PM

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Minutes of the ASCIT BoD Meeting November 13, 2000

Present: BoD - Meghan;
Guests: Scott Van Essen, Janet Zhou, Garrett Heffner
Meeting called to order at 10:41 pm.
We congratulate Eric for receiving the Marshall Scholarship. He will be studying in England for two years.
Guests Scott Van Essen, a member of the Echophenoma singing group, requests his club’s funding for the term sotta voce.
Fleming frosh Janet asks for Fleming’s multihouse allocation for first term to cover costs for the frosh party they had last weekend. We say sorry, but party they had last weekend.
Martha-Heleno says that the ASCIT copier is not working. Chris will email the right people to get that fixed.
Eric, Laura, Chris, and Sean met with Andre last Friday to discuss the Coffeehouse. The new managers, Melissa Soriano and Dominika Rytwinska, and Scholastic. He will be singing group, requests his end. We say sorry, but party they had last weekend.
Scott Van Essen, a Fleming frosh last year.
Jason reports that the locks for the PlayStation 2 in the Coffeehouse are on order through Tony Valdepino in Housing. In the meantime, the PSX2 will be protected by an impervious and indestructible invisible force field known as the Honor Code.
Attention clubs! The contents of SAC 35 need to be moved out now to make space for the Screening Room.
The new employees will receive training on how to use the equipment.
There was some concern about the Coffeehouse opening three weeks late and missing the revenue for the coffee. There are also some tool problems, but we are confident that the new managers will solve them.
A meeting is being set up by Miriam Feldblum, the President’s liaison, to discuss renovation of all student houses. The houses are not up to code (for example, wheelchair accessibility is nonexistent). This will be a long-term project and no student here now will be affected. A one-year committee will be established to come up with a proposal, comprised of faculty, staff, and four student representatives (1 appointed by ASCIT, 1 by the HRC, 1 from off-campus, and 1 from Avery). A major renovation will require temporary housing for students, and questions like how that will affect the current house system need to be addressed.
We need to talk about SAC 35. The contents of SAC 35 need to be moved out now to make space for the Screening Room.
Eric asks if we want to build on the campus something reminiscent of the movie “Real Genius.” Eric asks if we’re going to make the new building as a “nerd” building, since we’ll probably do most of the work, then stand around at the party feeling socially awkward, ever once in a while bragging about the nearest passerby about how well we installed the laser lighting system.
Melinda says that Harvey Muller wants to do a cool prank with us sometime in 2001. What’s a cool prank? A prank is丝绸 to infuriate the Rose Bowl parade with a “float” made from our Daihatsus and a whole lot of soda cans. Wait a second— if I write this in the minute, it won’t be a secret anymore so it won’t get done. Oh no.
Melinda has asked Ted Ju to take over as Social Director after she leaves for England next term.
The Music Department would like some extra space, so they ask if the could have Club Room B. Eric will put up a sheet of that room’s door, asking anyone who has a problem with that.
Meeting adjourns at 12:00 am.
Respectfully submitted,
Jason C. Cardema
Goldman, Sachs & Co.

Monday, November 13th, 2000
Investment Management Division
Quantitative Resources Group
Presentation on Portfolio Risk Monitoring
Center for Student Services–Dining Room 5
4:00 pm - 6:00 pm

Resume Drop
November 14th through November 28th
Please contact your Career Services Center
The title of this week’s Innerspace is a question: How happy are you? I want to know. To determine this, I have devised a survey whose purpose is to gather information about various facets of student life at Caltech. I’m curious to know how happy students (grads and undergrads) here think they are, and what factors influence that determination. Assuming I can get enough replies, it’ll make for an interesting little project. I will, of course, publish all results here in Innerspace and on the web.

The survey is presented below, as well as on the web. I encourage all of you to fill out the web version as it will be more convenient to assemble the data in that form. However, if you wish, you can return the paper version to the "Surveys" box outside the Tech office, SAC 40. The WWW version is located at:

http://www.its.caltech.edu/~jasonml/survey.html

Innerspace Happiness Survey
Please answer all questions as best as possible. The survey is completely anonymous. Return completed surveys to the "Surveys" box outside the Tech Office in SAC 40.

GENERAL INFO: ALL ABOUT YOU

What is your gender?
Female __  Male __

Are you a...
Freshman __  Sophomore __  Junior __  Senior __  Super Senior __

What is your GPA?
A+ __  B+ __  A __  C+ __  C __  B __  C- or less __  B- __

Where do you live?
Blacker __  Off-Campus Alley __  Dubney __  Fleming __  Lloyd __  Page __
Ricketts __  Ruddock __  Other Caltech Owned __  Non-Caltech Owned __

What is your Major/Field?
ACM __  Applied Physics __  Astronomy __  Biology __  Chemical Engineering __  Chemistry __
Other __  ECE or EE __  Other Caltech Owned __  Non-Caltech Owned __

ACADEMICS: WORK, WORK, WORK
On average, about how many hours per day do you spend on academic-related work?
1 or less __  2-4 __  5-7 __  8-10 __  More than 10 __  Every waking moment __

From what you can tell, do you:
Do more work than your friends? __  Do about the same amount of work as your friends? __  Do less work than your friends? __  Have no friends? __

Overall, how much do you enjoy the work you do?
Very Much __  Somewhat __  Very Little __  Not at all __

On a scale of 1 to 10, how happy are you with academics at Caltech overall?
(1 = despairing, 10 = ecstatic)

SOCIAL LIFE: THE FUN STUFF!

In general, are you satisfied with your social life?
Yes __  No __

Where do you spend most of your time?
Room/apartment __  In Class __  Elsewhere on Campus __
Dorm/Complex __  In Lab/Job __
In Lab/Job __  In a drunken stupor __

Of those you know at Caltech, would you say you have...
Lots of good friends? __  A few good friends? __  No good friends? __

On average, how many hours per night do you sleep?
2 or less __  3-4 __  5-6 __  7-8 __  8-9 __  10 or more __

Do you generally enjoy parties?
Yes __  No __  Don’t know __

Do you generally enjoy Caltech parties?
Yes __  No __  Don’t know __

How often have you used/do you use illicit drugs?
Never __  A few times a week __  At least once a day __  I’m drunk now __

How often do you drink alcohol?
Never __  Less than once a week __  A few times a week __  At least once a day __

On a scale of 1 to 10, how happy are you with the social life at Caltech overall? (1 = despairing, 10 = ecstatic)

Have you ever been on a date while at Caltech?
Yes, some __  Yes, many __  No __

Do you have a significant other?
Yes __  No __

Do you share a room?
Yes __  No __

On a scale of 1 to 10, how happy are you with the social life at Caltech overall? (1 = despairing, 10 = ecstatic)

If you had to choose one, which of the following is the worst thing about the social life at Caltech?
MF ratio __  Too many nerds __  The UG House System __

The Honor System __
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IF THATS THE SAME THING AS SPAM, WE'RE HAVING A GOOD MEETING HERE.

WE GET TO READ THE MOST WONDERFUL EMAIL I'VE NEVER RECEIVED THIS WEEK!

THE WHOLE CLASS APPLAUSED WHEN MISS SMITH HELD IT UP!

WHAT IS IT? DIABETES? AUTOPSY WANDERER? I FORGET.

BUT IT'S NOT AS BAD AS IT SEEMS. IT'S ONLY BETWEEN THE TIMES I OUTSOURCE.
Good morning to all! This is Dan Rathner, reporting from Hlhhauisi, BLA. In the warm and steamy countryside each spring had been kept away by local bruntaries. Well, although things have been quiet on the tourist front, other problems have now reared their heads. In fact the random shootings and cleaning up of visitors seem to be simple problems compared to the mess that has developed in the last few days. The two major candidates for running the country (Avon, Giorgio and VP Bono) now seem to be essentially in the after a closely contested race. While trying to find out who really won, there has been a close examination of the voting results, and many irregularities have been revealed, which one would not expect in what is considered a free, democratic election. Apparently in a less hotly contested election no one would have noticed a few thousand citizens who were not given the chance to express their desires.

H ow can it be that in this “democratic” environment, thousands, many thousands of citizens seem to be disenfranchised? There were people who were refused new blank ballots, having made mistakes in filling out previous ones. There were people who apparently were turned away standing in line at the polls at closing time. Others, who thought they had registered through the DMV, apparently never got on the voters rolls. There were 10,000 people who were sent absentee ballots, and will presumably return them by the deadline. But that’s no problem, since the deadline is today, Friday, several days after the results of the voting were to be “certified” by state officials. As a result it would seem that, for these absences, it is as if they had not voted. Who knows, perhaps they are being counted after all, and the tally eventually added to the score. Such shenanigans be discovered somewhere beyond our borders?

Consider this situation, could one blame countries that have been the butt of our criticisms, or even countries who have had our intervention through the DMV, apparently never got on the voters rolls. There were 10,000 people who were sent absentee ballots, and will presumably return them by the deadline. But that’s no problem, since the deadline is today, Friday, several days after the results of the voting were to be “certified” by state officials. As a result it would seem that, for these absences, it is as if they had not voted. Who knows, perhaps they are being counted after all, and the tally eventually added to the score. Such shenanigans be discovered somewhere beyond our borders?

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The Cultural Encounter video features women talking; for the previous class will be played, but after 9:30 pm free to make requests & bring your own music.

Gay/Lesbian/Bisexual Discussion Group. Looking for a safe and supportive place to discuss such as coming out, being gay, and growing up with family and friends. GLB is a social group where you can find new friends. We invite you to the Gay/Lesbian/Bisexual Discussion Group, which meets on the first and third Tuesdays of each month from 8:15 until 10:15p.m. in the Health Center Lounge. This is a confidential meeting and does not imply anything about a person's sexual orientation - only that she is willing to be supportive in this setting. The group usually discusses a particular relevant topic and then moves on to the general discussion. Refreshments are served. If you would like more information, please call ext. 8331.

Community Service Opportunities Abound! The Caltech Y offers students and staff a variety of ways to participate in community service. Opportunities include: tutoring for Habi- tat for Humanity, Union Station Homeless Shelter, math tutoring (on or off campus), reading tutoring, and working at local hospitals. One-time community service events are planned each term and opportunities for service are open to a regular basis. Undergraduates with federal work-study can receive $15/hr for their community service work. To be added to the community service interest email list, for more information about the Community Service Program, please contact Kristin Abbott at kabbott@caltech.edu or call 626/395-3180. Or, stop by the Career Center office (19122 Lindsay Lane) for Student Services (formerly Keck House) for a complete listing of opportunities.

* The American Electropoters and Surface Finishers Society (AESF) is offering scholarships to upper class undergraduate and graduate students who maintain strong academic qualifications. For more information, contact Michael Reischmidt at (626) 395-4087 or michael@hss.caltech.edu. For a complete list of SEPP Seminars and Harris Lectures scheduled for this academic year visit our Website: http://www.hss.caltech.edu/seps/SEPP.html.

The Caltech Edition of AIRTALK: "THE GREAT BLUNDERS OF SCIENCE" by NATHAN LEWIS, Professor of Chemistry, Caltech & MICHAEL SHERMER, Author, Publisher & Director of the Skeptics Society. KPPC - 89.3 FM 9:00 - 10:00 A.M., Monday, November 20, 2000.

The William and Myrtle Harr- dinger Lectures in Science and Civilization presents Dr. Peter Galison, Professor of the History of Science and of Physics, Harvard University. Poincare’s Maps and Einstein’s Clocks, Friday, De­ cember 1, 7:30-10:30 p.m. in Beckman Institute Auditorium. The Caltech campus and are open to the community at no charge. For information, contact Michelle Reischmidt at (626) 395-4087 or michael@hss.caltech.edu. For a complete list of SEPP Seminars and Harris Lectures scheduled for this academic year visit our Website: http://www.hss.caltech.edu/seps/SEPP.html.

* The National Academy of Nuclear Training is offering $2,500 scholarships to eligible students majoring in nuclear engineering, power generation health physics, electrical or mechanical engineering, or chemical engineering with nuclear power option. Applicants must be U.S. Citizens, enrolled full-time in a four-year accredited institution, minimum G.P.A of 3.0 or higher, and interested in nuclear power careers. Additionally, scholarships will be renewed for current Academy Scholars who maintain their eligibility. For further information on the National Academy Educational Assistance programs, please visit www.nei.org. Applications are available in the Financial Aid Office. Please send completed application materials to: National Academy for Nuclear Training, Scholarship Review Committee, P.O. Box 630 Princeton, NJ 08541-630. Entries must be submitted by February 14, 2001.

* The Measurement Science Conference (MSC) has estab­ lished scholarships to students an Engineering or Science Ph.D. Graduate degree program. The scholarship program places emphasis on papers, projects that discuss the advancement of measurement science technology. Applicants must be U.S. citizens, have a oven grade point average of 3.2, higher, completed at 24 units, upper division courses in Eng­ ineering or Science degree or in courses in a Masters Degree Pro­ gram in Quality Assurance. Operate members of the Measure­ ment Science Conference (MSC) com­ mittee are eligible for this scholarship award. Also, ap­ plicants must be able to attend Measurement Science Con­ ference lunch held on January 18, 2001, at the Disneyland Cle­ vention Center in Anaheim, California. Applications available in the Financial Aid Office. More information regarding MSC Scholarship Program may be contact: R. Careyette, MSC Scholarship Chairperson, Teledyne Electron­ ics Technologies, Martina R. Ray Facility, 12964 Paseo Street, Los Angeles, CA 90032-6534. Entries must be submit­ ted to Teledyne Electronics To­ nologies by December 1, 2000.

* THE GLAMOUR MAGAZINE'S 24TH AN­ TEN COLLEGE WO­ MEN COMPETITION has begun. The competition is open to full-time juniors regardless of major or GPA. All entries must be postmarked by January 1, 2001. Contact the Dean of Su­ dent Office, 120 Parsons-Gat for the applications.