Dear Engineering Students:

On behalf of engineering faculty and staff, I would like to welcome you to the School of Engineering at San Francisco State University. I know you will find our programs to be exciting, stimulating, and enjoyable.

At SFSU, the School of Engineering offers Bachelor of Science degrees in Civil (CE), Mechanical (ME), Electrical (EE) Engineering, and Computer Engineering (CmpE). In all of our degree programs we strive to balance theory and practice in the curricula. By the time students have gone through our programs, they have plenty of hands-on experience from working in the laboratories, many of which are supported by grants from the National Science Foundation, Department of Energy (DOE), and local industry. Engineering students also participate in various applied research projects to compliment their classroom learning. For example, since 1992, engineering students in the Industrial Assessment Center (IAC) program, a DOE-funded project, have been conducting energy, waste, and productivity assessment for close to 400 small to medium manufacturers in the San Francisco Bay Area, under the supervision of engineering faculty. Students apply what they learn in the classroom to help various Bay Area manufacturers to cut down their energy consumption, waste generation, and improve their productivity. The experience students acquire through this IAC program help them to become capable engineers. This IAC program exemplifies our goal of Producing Industry Ready Engineers.

In our university of 30,000 students, there are only about 700 students in engineering, with 20 full-time faculty members. Therefore, engineering students have the atmosphere of a small college, envied by most, yet are still able to enjoy the diversity of a large university. We are proud to have a close relationship with students in engineering, with 20 full-time faculty members.

Two-Minute Advising Session for First-time Students

By Dr. V.V. Krishnan

Welcome to SFSU! I am sure you will find this school really interesting, both for what you learn inside the classroom as well what you can learn outside on the campus. Here are some bits of instant advice for you that might make your life here a little easier and less painful.

1. Make as many friends as you can. Say “hello” to everyone – even if only 1% of the people respond positively, you still come out ahead. You will be surprised by how often you are going to need their help and support.

2. Plan your schedule for the next semester well in advance. For instance you should start thinking about your Spring schedule in November and your Fall schedule in April. Many required courses fill up very quickly and it may become very difficult to get into these courses at the last minute.

Pay attention to the fact that not every course is offered every semester. Some required courses, such as ENGR 235, ENGR 350, etc., are offered only once a year; if you miss them when they are offered, it may end up delaying your graduation.

(Continued on page 2)
with our students because it enables us to provide them with a solid foundation for whatever endeavors they might pursue.

If you have any questions or run into any difficulty while you are here, please stop by the department office at SCI 163 in the Science Building, or contact us by phone (415-338-1174) or e-mail (ssl@sfsu.edu) to get advice and help. We are here to serve our hardworking students.

Have a great semester and enjoy your studies here!
Sincerely,
ShyShenq Liou
Director, School of Engineering

Just before the Fall semester began, several engineering faculty moved offices. Here is a location guide.

- Dr. Ed Chang from SCI 112 to SCI 123
- Dr. Hamid Mahmoodi from SCI 130 to SCI 170
- Dr. Kwok-Siong Teh from SCI 122 to SCI 124
- Larry Klingenber from SCI 124 to SCI 153
- David E. Calkins from SCI 170 to SCI 112
- Dr. Hao Jiang new to SFSU, is in SCI 130.

Dr. Michael Holden accepted a position at the California Maritime Academy in Vallejo, CA.

**TWO-MINUTE ADVISING SESSION**

(Continued from page 1)

3. If you are planning on dropping a course, make sure that you do so within the first four weeks of the semester. If you have to withdraw after the fourth week, make sure that you file a “Course Withdrawal” petition well before the deadline. No matter what, do not just walk away from a course – you will end up with a WU grade, which counts just the same as though you got an F in the course.

4. Join a professional society such as ASCE, IEEE, ASME, SHPE, SWE, NSBE, etc.

For First-time Freshmen only:

a. Do whatever you need to in order to get to MATH 226 as quickly as you can. There is virtually nothing you can take in your major which does not require Calculus I. Once you have MATH 226 under your belt, take PHYS 220 the very next semester. If you did not take Physics in High School, make sure that you take the review course first.

b. ENGR-GE is the better option for you than UNIV-GE. Regardless of what your friends from other majors tell you, it is not a good idea to finish all your GE requirements first before you focus on your major! Stay away from BIO 330 in your freshman year, even if the course title looks very interesting!

c. Complete the English requirements as soon as possible.

For First-time Transfers only:

a. Make an appointment to meet with the Program Head of your major as soon as you can. This can save you a lot of problems when you finally file for graduation.

b. Before taking GE courses make sure that you consult with an ENGR GE advisor to find out whether the ENGR-GE or the UNIV-GE pattern is better for you.

Something’s not quite right...

\[
\begin{align*}
a^2 &= ab \\
2a^2 &= a^2 + a^2 = a^2 + ab \\
2a^2 - 2ab &= a^2 + ab - 2ab = a^2 - ab \\
2a^2 - 2ab &= a^2 - ab \\
\text{factor} \\
2(a^2 - ab) &= 1(a^2 - ab) \\
\text{divide by } a^2 - ab \\
2 &= 1
\end{align*}
\]
Welcome to the Fall Semester of the 2007-2008 academic school year. I hope that you are ready to embark on a challenging and rewarding semester! The MESA Engineering Program (MEP) is a student academic development program that serves the students from historically disadvantaged groups. I urge you to visit the MEP Office and sign up for MEP membership. Postings on tutoring, jobs, internships, research and scholarship opportunities will be made available to you as they come in on a daily basis to the MEP office and MEP Study Center. Keep in mind that some of the information is DATED with Application Deadlines!

Please read the bulletin boards inside and outside the MEP Office for information on jobs, internships, meetings, scholarships and research opportunities.

**MEP Office** is located in SCI 250 and provides support services for engineering students.

**MEP Information Center,** also located in SCI 250, provides information on specific opportunities for underrepresented students.

**MEP Study Center** is also located in SCI 250.

Tutoring Available!!

Applications are available in the MEP Office, SCI 250. The tutoring is scheduled to begin soon.

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**PG&E Leadership Development Conference!!**

10 MEP students from School of Engineering will attend the Leadership Development Conference sponsored by PG&E and MESA Statewide at the San Ramon Valley Conference Center on October 19-21, 2007. Under the theme “Bridging the Gap Through Empowerment,” the conference will provide professional development opportunities to engineering and computer science students with leadership potential.

Forty volunteers from PG&E, IBM, AT&T and FedEx will facilitate workshops to prepare the students for the transition from college to employment in engineering and technology careers. The workshops include sessions on resume development, job interview tips, job search skills, team building, strategic communications, and what it takes to be a leader in business. The students also attend to an Industry Network Dinner. Application forms are available in the MEP Office, SCI 250.

I look forward to working with MEP students and Engineering Societies Student Chapters to continue the success of the MEP.

Dr. Nilgun Ozer, MEP Director

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**Meet the New Faculty for School of Engineering**

**Dr. Hao Jiang** has joined the Department faculty. Dr. Jiang earned a Ph.D. in electrical engineering from U.C. San Diego in 2000.

Thereafter he worked for several years as senior staff design scientist at Broadcom Corporation, a multinational analog and digital communications company.

Dr. Jiang’s research is in high-frequency microwave circuits.

For Fall 2007 he will teach ENGR 455, Power Electronics and ENGR 301, Electrical Measurements.

His office is SCI 130.

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**Larry Klingenberg** has accepted the position of Director of Engineering Design Center.

The purpose of EDC is to enhance engineering education through university work on industry / government sponsored engineering projects. Visit EDC at SCI 153.

Larry continues to teach ENGR 100 and ENGR 206.

**GOT NEWS?**

Email your items and/or comments and/or announcements to EDCemail@sfsu.edu

Editor:
Larry Klingenberg

Assistant Editor:
Darryl Skrabak

Contributions by:
Dr. Shy Shenq Liou
Dr. V.V. Krishnan
Dr. Nilgun Ozer
Dr. Hao Jiang
What's That Sound?

It's the Audible Wayfinding Device. Electronics design by Gadget Club members Mike Carychau, Steve Jain, Jacky Wong, and Matt Willman, the device is now a practical solution for the visually impaired to navigate through the SFSU campus.

Meet some of the clubs! Their meeting schedules are noted:

- Institute of Electrical and Electronic Engineers (IEEE)
  Meets first Wednesday of month, 1 p.m. at SCI 148 or SCI 164.

- Society of Women Engineers (SWE)
  Meets second Wednesday of month, 1 p.m. at SCI 164.

- American Society of Civil Engineers (ASCE)
  Meets third Wednesday of month, 1 p.m. at various locations.

- American Society of Mechanical Engineers (ASME)
  Meets second Friday of month, 2 p.m. at SCI 256.

- Gadget Club
  Meets every Friday, 2 p.m. at SCI 148.

- Society of Hispanic Professional Engineers (SHPE)
  Invites you to a BBQ Saturday, September 15, 11 a.m. to 7 p.m. at Baker Beach, which is in vicinity of Battery Chamberlin Road, GGNRA, San Francisco.

- Tau Beta Pi
  This is a national Engineering Honor Society. The new chapter at SFSU was inducted in Spring 2007. Membership is by invitation, extended to the top 1/8 Junior and top 1/5 Senior engineering students.
  Contact Alex Barszap, President      TBPSFSU@gmail.com