Message From The Dean

As the 1983-1984 academic year begins, we look ahead with some anxiety but also with much optimism. The anxiety is a result of reduced State support at a time when demand for technically educated persons is at an all-time high. Low faculty salaries make it difficult to recruit faculty in critical areas. Limited resources, including classroom space, have forced us to limit enrollments in many of the School's programs.

Our Engineering building was constructed in 1959 and was designed to serve a maximum of 600 students. This structure is being taxed far beyond its design capacity with our current student enrollment in the School of Engineering and Computer Science in excess of 2,700. Fortunately, we are blessed with dedicated faculty who provide outstanding instruction and leadership under most trying conditions.

A major reason for our optimism is the tremendous support our school is receiving from the business and technical communities. Local architects and contractors are joining forces to provide remodeled facilities for our School, as described elsewhere in this newsletter. Our Industrial Advisory Board has been very helpful in many ways, including assisting in faculty recruiting and in the acquisition of equipment gifts.

The Engineering and Computer Science Chapter of the CSUS Alumni Association is developing a very ambitious schedule of activities during this academic year. Included among the activities is a major alumni giving program. For the third consecutive year, the alumni chapter is planning an awards banquet to honor outstanding alumni of the School.

The School's new minority engineering program (MEP), combined with the high school level Mathematics, Engineering, Science Achievement (MESA) program, provides practical help and support to minority students so that they can prepare for successful careers in technical and scientific fields. The Sacramento MESA center is the largest of the 15 centers in California, providing support services and educational enrichment experiences to about 500 minority students who have shown potential in mathematics and science. Our MEP center provides similar support when such students reach CSUS.

We are developing close relationships with the industrial community that permit us to respond quickly to its needs. For example, a new Computer Engineering curriculum, a joint effort of our Departments of Computer Science and Electrical & Electronic Engineering, is under development. Because of the need expressed by the construction industry, our

Building Remodeling in Progress

The remodeling of the central wing of the Engineering Building is progressing rapidly. According to Dean Donald Gillott, "We should be able to start moving our equipment into the new facilities by the end of the semester." The project, spearheaded by Joe Benvenuti, Sacramento area developer, and architects Grant Caywood and Associates, will provide a 40% expansion of the School's Center for Computer-Aided Design, as well as a modernized Computer Systems Laboratory and a new design laboratory for Civil Engineering and Construction Engineering Technology.

The project, valued at about $500,000, was begun last spring. In the first phase, the new CE-CET design laboratory was created out of a storage area in the back of the Technician Shop. This new laboratory will eventually be developed into an active multi-media classroom that can be used for off-campus instruction via live TV or videotape.

The second phase, currently in progress, involves the complete remodeling of the north half of the office wing of the Engineering Building. It will result in expanded and improved facilities for the Center for Computer-Aided Design and the Computer Systems Laboratory. These new facilities will feature a raised floor, indirect lighting, improved air conditioning, entrances for handicapped students, and large windows to allow visitors to view the laboratory activities without disturbing them.

When complete, the Center for Computer-Aided Design will house the Hewlett Packard Model 1000 minicomputer and its ten terminals, thirteen monochrome graphics terminals (Tektronix Model 4010 and 4051), ten of which have graphics tablets, and fourteen color graphics terminals (Tektronix Models 4027 and 4113, Ramtek Model 6211.

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Industrial Advisory Board

The School's Industrial Advisory Board started its second year with a breakfast meeting in the University Union on Wednesday, September 21. The Board was formed last year with the following objectives:

* Continue and expand the strong working relationship between the School and local industry;
* Encourage the mutual exchange of technical information and personnel between the School and industry;
* Provide a forum for constructive program development, including cooperative education programs;
* Promote expansion of the School's instructional and research resources; and
* Plan short-range and long-range continuing education and research programs.

The Board members are:

**John A. Baker**, Jr., Senior Associate, Vanair Construction Management, Inc.

**Dr. Bruce Barkalow**, President, Integral Biomedical Engineering, Inc.


**David Becker**, Senior Power Systems Engineer, Pacific Gas & Electric Co.

**Howard Blower**, Private Consultant

**Norman Brazelton**, Vice-President, CH2M Hill

**Joseph I. Burne**, Burns, Burns and Klenlen

**Geoffrey Cohen**, Plant Manager, Keyes Fibre Company

**Eugene Cole**, President, Cole, Yee, Schubert and Associates

**Robert Cribs**, Folsom Research, Inc.

**Dr. Michael Faubert**, Vice-President of Engineering Systems Integrators, Inc.

**Terry Francino**, Manager, Industrial Chemical Operations, Procter and Gamble Manufacturing Company


**Arthur Goldberg**, Manager, General Electric Medical Systems

**Lyle Hoag**, Vice-President, Brown and Caldwell

**Charles Leong**, Engineering Manager, Signetics Corporation

**Robert Massa**, Sacramento District Manager, A. Teichert & Son, Inc

**Richard Wallace (Chair)**, Project Manager, Engineering Division

**Wisman and Becker**

**Frank Way**, Senior Software Engineer, the Grass Valley Group

**Michael Whaley**, District Engineer, ARMCO Construction Products Division

**David Hubka**, Manager, Manufacturing Engineering, Hewlett Packard

**Maurine Kane**, Vice President & Engineering Division Manager, Wismer & Becker, Inc.

**Robert Kuntz**, President, Professional Engineering research Consultants

**William Latham**, Assistant General Manager, Operations, Sacramento Municipal Utility District

Remodeling

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Megatek, and AED). In addition, there will be three printers and three multicolor plotters. The Computer Systems Laboratory will contain a Perkin-Elmer Model 3220 minicomputer and its peripheral equipment, 20 8-bit microcomputer systems, and 3 16-bit microcomputer systems.

In the final phase of the remodeling project, the offices of the Electrical & Electronic Engineering Department and the Biomedical Engineering Program will be relocated to the north side of the office wing, adjacent to the Computer Science Systems Laboratory. This move will increase the space available in the Dean’s Office and bring the offices of the Biomedical Engineering and Applied Research and Design Center closer to the other School offices.

Dean’s Message

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Construction Engineering Technology program is being modified into Construction Engineering Management.

Our Applied Research and Design Center (ARDC) is a critical support unit within the School. It provides technical administration of grants and contracts and organizes conferences and workshops involving the off-campus community. Funds raised through ARDC are used solely for graduate research fellowships.

With Sacramento emerging as the new “high-tech” region of California, we in the School of Engineering and Computer Science look forward to exciting challenges as new demands are presented to us. All of the special areas of activity summarized in this message are expected to provide the basis on which CSUS can continue to be a vital educational institution serving the needs of a dynamic community.

We were saddened to learn of the sudden death of John Salter, an active member of our Industrial Advisory Board. Those of us who had the good fortune of knowing John will sorely miss him.
Minority Engineering Program Started

Under the leadership of Richard Ortega, the CSUS Minority Engineering Program is started on its first full year of operation. According to Ortega, the newly-arrived Program Director, the program's goal is to increase the number of minority students graduating with degrees in engineering and computer science. The program for this year has four major components: (1) an orientation and problem-solving class for freshmen students, (2) tutoring in mathematics, science, and engineering subjects, (3) scholarships, summer employment, and internship opportunities, and (4) formation of student chapters of national minority professional organizations.

Rich Ortega

Rich is a 1979 graduate of California State University, Northridge, where he majored in Chicano Studies and minored in Mathematics. After teaching mathematics at two high schools and a community college in the Los Angeles area, he joined the staff of the Minority Engineering Program at Cal State Northridge. Starting as a counselor and recruiter, Rich moved up to Assistant Program Director. After a nationwide search, he was selected to be the first full-time MEP Program Director at CSUS.

Thirty students are enrolled in the "MEP Orientation and Problem-Solving" course. This course consists of two hours per week of orientation activities and four hours per week of math problem-solving practice. The orientation activities focus on study skills, time management, library and research skills, and career planning. The course also includes guest speakers and field trips to local industries.

Planning and preparation for the CSUS Minority Engineering Program was done during the 1982-83 academic year by Richard Latimer, Lecturer in Mechanical Engineering. Space for the office and tutoring center were acquired, a grant was secured from the CSU Chancellor's Office for training faculty advisors, and $5,000 for scholarships was obtained from the National Action Council for Minorities in Engineering. In addition, MEP informational materials were distributed to community colleges and high schools in the Sacramento area, and a cooperative relationship between CSUS-MEP and the Capitol Area MESA Center was established.

See you at the
THIRD ANNUAL ALUMNI BANQUET
on
May 12, 1984

Alumni Officers Plan Activities for Year

The officers of the Engineering and Computer Science Chapter of the CSUS of Alumni Association are actively making plans for the coming year. President Peter Ouchida (MSME '76), Vice-President Dan Hinrichs (BSCE '69), Treasurer Steve Black (BSME '80), and Secretary Tom McLaughlin (BSME '77) have been meeting with Dean Gillott, Associate Dean Reardon, and Professors Ken Kerri, Trevor Devey, and Rob Cubert. Activities being discussed include an intensive effort to contact alumni and enroll them in the Association, and the Third Annual Alumni Banquet.

The banquet is scheduled for Saturday, May 12, 1984. It will be held at the Holiday Inn, Interstate 80 and Madison Avenue. All alumni and friends of the School of Engineering and Computer Science should plan to attend what promises to be the biggest and best banquet of all. More information will be sent out during the coming months.
Alumni Honor Two At Annual Banquet

Joseph B. Hannon (BSCE '61, MSCE '73) and Shelley N. Bailey (BSCE '65) were given the 1983 Outstanding Alumni awards at the second annual banquet of the Engineering and Computer Science Chapter of CSUS Alumni Association. The banquet was held in the Redwood Room of the University Union on May 14, 1983. The banquet also featured a tour of the School’s Center for Computer-Aided Design and Robotics Center. Plans for the expansion and development of these centers were presented by Dean Donald Gillott.

Joe Hannon is a Senior Materials and Research Engineer in the Soil Mechanics and Pavement Branch of the Transportation Laboratory of the California Department of Transportation. He has done pioneering research on reinforced earth and mechanically stabilized embankments and retaining wall systems. Currently he is responsible on a statewide level for feasibility studies, instrumentation, and evaluation of such earthwork systems. Joe is registered in California as a Civil Engineer and as a Quality Engineer. He has been active in the Engineering Council of the Sacramento Valley and a number of community organizations, including YMCA and the Sacramento-Yolo Camp Fire Council.

Shelley Bailey was also employed for a number of years by the California Department of Transportation. Since 1978 he has been working in the private sector as a licensed Civil Engineer and Quality Engineer, as well as a licensed building contractor. He has taught engineering courses at American River College, the University of California, Berkeley, and California State University, Sacramento. Shelley has been active in many professional organizations, including the American Society of Civil Engineers, the American Concrete Institute, the National Association of Corrosion Engineers, and the Northern California Council of Black Professional Engineers. He has served as the local chapter president of most of these organizations. Shelley is also active in the greater Sacramento Kiwanis Club, the Chamber of Commerce, and the Sacramento Tree Foundation.

Faculty and Alumni Activities

Kenneth D. Kerr, Civil Engineering, presented a paper, “New Training Programs for Water Supply and Water Treatment Plant Operators”, at the National Environmental Training Association’s Annual Conference in Salt Lake City, Utah, August 10-13, 1983.

Frederick H. Reardon, Associate Dean, will present a paper, “The Sensitive Time Lag Model Applied to Very Low Frequency Oscillations in Liquid-Fueled Ramjet Engines”, at the 20th Joint Army-Navy-NASA-Air Force Combustion Conference, to be held at the Naval Postgraduate School, Monterey, California, October 17-20, 1983.

The Applied Research and Design Center, directed by Lester Gabriel, Civil Engineering, held the latest in its series of Energy Forums on September 21, 1983. The forum, cosponsored by the Engineering Council of Sacramento Valley, featured speakers from the California Energy Commission, Pacific Gas & Electric Company, and the California Department of Water Resources, who discussed the problems and potentials of small electric power generating facilities.


A one-day conference, “Towards Intelligent Robots”, was held on campus on October 7, 1983. Speakers from the School of Engineering and Computer Science were Frederick W. Blackwell, Computer Science, Mohammad H. Zand, Mechanical Engineering, and Arthur Critchlow, lecturer in Computer Science and Mechanical Engineering.

Coming Events

October 28-29, 1983: Homecoming Weekend — Football game with CSU, Chico, Saturday, 7:30 pm, Hornet Stadium

November 2, 1983: Industrial Advisory Board, regular bimonthly meeting

May 12, 1984: Third Annual Alumni Banquet, Holidome, Madison Avenue at Interstate 80