Sonoma State University
Engineering Industry Advisory Board
Meeting

January 31, 2014
3-5 PM
Salazar Hall
Meeting Agenda

2:30  Reception, meeting faculty and students; student projects
3:00  Meeting Starts
3:05  Board Member Introductions
3:15  Remarks by President Armiñana
3:20  Electrical Engineering Program and Department Background
3:30  IAB: Membership and Bylaws
3:40  Discussion of Goals, Projects and Creation of Task Forces
4:00  Break
4:10  Continue Discussions
4:50  Meeting Adjourned, Tour of Facilities
Introductions

IAB Members

ES Faculty & Staff
Department of Engineering Science

BS Electrical Engineering
MS Computer & Engineering Science

IAB Members

Ruben Armiñana (SSU President)
Ed Amormino (Micro-Vu)
David Amormino (Micro-Vu)
Jin Bains (National Instruments)
Ajaib Bhadare (Technology/banking)
Michael Chobotov (Trivascular)
Joe Humphrey (Trivascular)
Mike Hatfield (Cyan)
Stephen Jackson (SCOE)
Rick Johnston (Cyan)

David Krauthamer (Intelenex)
Stephen Lewis (SRJC)
Scott Parmley (SSU Student)
Mark Pierpoint (Agilent)
Dean Pohwala (LEMO)
Saeid Rahimi (SSU Faculty)
Carolyn Stark (SC BEST)
Dan Condron (SSU VP)
Lynn Stauffer (SSU Dean)
Meng-Chih Su (SSU Dept. Chair)

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Faculty & Staff

Tenure Track
Farid Farahmand (PhD EE)
Haider Khaleel (PhD EE)
Jack Ou (PhD EE)

Adjunct
Don Estreich (PhD EE)
Ali Kujoory (PhD EE)

Network Analyst & Adjunct
Shahram Marivani (MS EE)

Department Coordinator
Ronnie Goodlund

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Opening Remarks by

SSU President

Ruben Armiñana
Background

Engineering Science Department
MS in Computer & Engineering Science
BS in Electrical Engineering
SITE OF
Sonoma State College
Established by 1873
Cotati  California
MS-CES Background

- **Early 1980s**  Local community requests engineering programs at SSU. SSU forms a team to conduct a feasibility study. Within 3 months the group issues a report declaring the request not feasible.

- **Jan 97**  Economic Vitality Partnership (EVP, a consortium of industry executives) issued a press release expressing a need for local Engineering curricula. SSU was given preference to respond to the challenge.
Feb 97 The idea of a self-support Master’s degree program was considered by Dean Anne Swanson based on the assumption that the necessary support and infrastructure for a B.S degree in Engineering did not exist at that time.

Aug. 97 A Needs Assessment Survey was created and distributed to local industry.
SSU drafts master’s degree in high-tech
Course designed for engineers

By Bob Norberg
Santa Rosa

Educators at Sonoma State University have drafted a proposal for a master’s degree program in computer and engineering sciences to train workers for Sonoma County’s burgeoning high-tech industry.

"It’s to meet the needs of the people who live in the North Bay," said Alene Simmons, dean of the SSU School of Natural Sciences. "Engineering managers are saying to me that they are having difficulty recruiting and training good people in those fields."

The program, which could begin in the fall of 2000, includes courses in mathematics, computer science and physics, Simmons said. The curriculum was drafted by professors in those fields.

It’s an area of education that was identified in reports by the Sonoma County Economic Development Board two years ago and in a report issued last month.

There are 10,000 jobs in Sonoma County’s 215 high-tech companies, 2,000 more than five years ago, with annual wages of $39,500, compared to the average wage of $26,000 in Sonoma County.

Sonoma County’s high-tech industry includes companies that specialize in:

SSU
Continued from Page E1

computer hardware and electronics; telecommunications; consulting; equipment and instrumentation; multimedia and biotechnology.

A committee of SSU faculty have drawn up a list of courses for the program and put together a financial plan. Graduates who complete the 38 units of coursework would be qualified to take jobs as engineers.

Simmons said that state funding is not available, so SSU is asking for grants from the high-tech industry itself.

She estimated that it would cost $160,000 to $180,000 for the equipment to begin the program and a $1.7 million endowment to provide for continual upgrades in equipment and software.

"The state is not going to fund this, so we are looking for a partnership with industry to have financial support," Simmons said.

"The state has been very willing to work with us, and we will continue to do so," Meyer said.

Ben Stengel, director of the Sonoma County Economic Development Board, said that despite the long process to get a new program through the university system, "this good news is that it is coming, it’s in the offing."
Trustees approve SSU master's program

An influential committee of California State University board of trustees on Tuesday approved Sonoma State University's new master's degree program for computer sciences, a self-supporting program that was developed for and is being funded by Sonoma County's burgeoning telecommunications industry.

The approval by the Educational Policy Committee paves the way for a vote today by the full board, which is considered perfunctory, SSU officials said.

The two-year master's program will include 10 courses along two tracks, computer hardware and software systems, and communication and photonics, and be offered in the late afternoon and early evenings to accommodate students working in the high-tech industry.

It is scheduled to begin in the fall of 2001.

— Bob Norberg
Jan. 98
Completed surveys were returned and analyzed by Dr. Susan Herring (PhD Statistics).

Sep 98
School of Natural Sciences faculty retreat generated comprehensive list of questions and feedback. Curriculum committee was formed.

Oct 98
Progress report presented at an EVP follow-up meeting.

Nov 98
Curriculum and initial budget plans completed.

Jan 99
Preliminary curriculum presented to the School of Natural Sciences' faculty.

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SSU: University hopes to raise total of $8.5 million

CONTINUED FROM PAGE E1

said OCLI President Joseph Zils. The $1 million donation will be given over five years.

Before the OCLI donation, the program had received promises of $5.2 million from a number of sources, including $1.1 million from Advanced Fibre Communications and $4 million from Cisco Systems engineers David Scott, Paul Elliott, Chip Robertson and Ajaib Bhadare, and Calix Networks founders Mike Hatfield and Tom Corker.

JDS Uniphase, with headquarters in San Jose and Canada, purchased OCLI for $6.2 billion in February.

OCLI, with more than 1,900 employees in Santa Rosa, makes thin film coatings and optical products that increase the data-carrying capacity of fiber-optic cable.

SSU’s two-year engineering program, which costs $900,000 to start, will give students a master’s of computer engineering and science. It will handle 25 to 40 students at a time.

The curriculum will consist of 10 three-unit courses along two tracks: computer hardware and software systems, and communications and photonics.

Rahimi said the curriculum will be set once the permanent director is hired.

The program will be housed on the second floor of Salazar Hall, which as part of its $13 million renovation will have six advanced labs for computers, photonics, semiconductors, analog and digital electronics and microprocessors.

Salazar will also house SSU’s existing undergraduate programs in computer sciences and physics.

You can reach Staff Writer Bob Norberg at 521-5206 or e-mail at bnorberg@pressdemocrat.com.
Agilent donates $1 million in equipment for SSU lab

ROHNERT PARK — Agilent Technologies will donate electronic test and measurement equipment valued at $1 million to establish a new engineering science laboratory at Sonoma State University.

The Agilent Technologies Communications Laboratory will feature a variety of industry-leading photonics, optics, and communications test instruments to be used by graduate students in SSU’s Masters program in Computer and Engineering Science (MS-CES) as well as undergraduate students in applied physics.

The donated equipment will include optical spectrum analyzers, lightwave component analyzers, and digital communications analyzers from Agilent’s Lightwave Division, based in Santa Rosa’s Airport Corporate Center.

The MS-CES program and the new laboratory will promote collaborative research and teaching opportunities between SSU and Agilent, according to Saeid Rahimi, PhD, dean of the School of Science and Technology. Agilent is also donating to other universities, including Stanford University and University of California at Davis.
Rahimi appointment shows SSU support for telecom

New dean champions undergraduate engineering program

BY JOY LANZENDORFER
STAFF REPORTER

ROHNERT PARK – Signaling continued support of Telecom Valley, Sonoma State University has appointed Saied Rahimi, PhD dean of the School of Natural Sciences. Dr. Rahimi was one of the driving forces behind the new Masters in Computer and Engineering Science program, and his appointment means that SSU is one step closer to offering an undergraduate program in engineering.

Dr. Rahimi has been interim dean for the past 10 months, overseeing the school’s eight departments: biology, chemistry, geology, mathematics, physics, computer science, kinesiology, and nursing. He stepped into the role when dean Anne Swanson left after eight years to work as a writer and recruiter in San Jose.

During that time, Dr. Rahimi worked with the community and the faculty to bring to fruition the Masters in Computer and Engineering Science program, to begin in the fall. Funded entirely by donations from the community, the program is self-sustained and does not draw on the resources of the university.

“Saied did something that no other dean has done before,” says George Ledin, PhD, chair of the computer science department. “He raised millions of dollars to get a self-supported masters program instated at the university. Saied said that we can’t wait for the State of California to fund the program, and he began efforts to fund the new program.”

A step toward technology

Dr. Rahimi received his BS and MS in physics in Iran before coming to the U.S. He received his PhD at Pennsylvania State University and did post-doctorate work at Oregon Institute of Science and Technology before coming to SSU as an associate professor in 1982.

During Dr. Rahimi’s 19 years at SSU, he has taken many steps to implement engineering into the curriculum. He proposed an applied physics concentration for those pursuing a physics degree and has designed nine new courses and laboratories in physics, electronics, optics, and semiconductors.

Dr. Rahimi has also been one of the champions of a much-needed undergraduate degree in engineering. By choosing him over 34 other applicants, SSU has taken a step toward creating the new program.

“The choice SSU’s president had to make between the other finalist and myself is the difference between a more traditional natural science feature for the school and a more technology-oriented direction,” says Dr. Rahimi. “SSU has clearly made a choice toward high technology. For a long time, the school has considered the undergraduate program and now is more prepared to
Growing Our Own

by Susan Kashah

High tech gifts kick start new computer and engineering masters program.

Human nature and a good business sense tell you that when something works, you support it. And that’s exactly what is happening with Sonoma State’s new master’s degree in computer and engineering science (MS-CES) program that begins this fall. The program currently has two tracks, Computer Hardware and Software Systems, and Communications and Photonics. The telecommunications industry, specifically in the North Bay, is lining up to offer funding to get the program off to a strong start.

Designed to be completely self-supporting, the MS-CES program will be a boon to the area’s high tech industry leaders, large and small, who have communicated their need for a constant pool of new employees who are well-trained and well-educated.

“The MS-CES program is a unique and innovative program with a curriculum designed to further the working skills and practical knowledge of engineers, computer scientists and similar professionals,” says Saied Rahimi, dean of the School of Natural Sciences.

Xandez CEO Kamran Shamsazi and President Ruben Armistana, center, with President Ruben Armistana and Saied Rahimi, dean of the School of Natural Sciences.

A recent gift from Silicon Valley company JDS Uniphase (parent company of Santa Rosa’s Optical Coating Laboratory) totaling $1 million and a $75,000 gift from Petaluma’s Xandez Corporation join other high tech company support, including a $1.1 million gift from Advanced Fiber Communications and $4 million from six local engineers.

Xandez CEO Kamran Shamsazi, who facilitated the most recent gift, is a member of the North Bay Technology Roundtable. Xandez’s gift will help establish a laboratory to teach about computers that interface with instruments and various sensors/transducers. This laboratory will be used both by graduate and undergraduate students.

The SSU master’s in computer and engineering science program has forged a partnership with the local industry. It’s what SSU President Ruben Armistana calls a privately funded but publicly administered program.

Curriculum in the program is designed to further the working skills and practical knowledge of engineers, computer scientists and similar professionals. Small class sizes, individual attention, and hands-on learning will take place in the state-of-the-art laboratories which are under construction.

A firm base in mathematics, computer science and physics will be augmented with a selection of engineering course.

(continued on next page)
Launch

Growing Your Own

Wine country tech companies, in need of engineers, not vintners, play booster to a local college

FIFTY MILES NORTH of San Francisco sits Sonoma, an agricultural country nestled among rolling hills, oak trees, and vineyards. A closer look reveals one of the fastest-growing tech communities in the country. Established bordellos like Silicon Valley, Route 128, and North Carolina's Research Triangle rose to prominence partly by feeding off nearby prestigious universities for intellectual capital and talented employees. When the developing tech community along Sonoma's Highway 101 corridor realized that the entire county had not a single graduate school, much less Stanford, MIT, or Duke, they chipped in to fund one at lil' Sonoma State University.

Sonoma State, sometimes called "Granola U" and known largely for its nontraditional student population, is set to offer a master's degree program in computer and engineering science in fall 2001. The program was funded largely by Advanced Fiber Communications, several smaller companies like Xanix, and local executives from Cisco and Callix.

"Sonoma is a desirable place to live, and that has allowed tech companies to second and import talent," says Michael Troy, president of KnowledgePoint, a Petaluma, California, software company, and chairman of the North Bay Technology Roundtable. But local businesses knew they couldn't keep importing talent or poaching it from one another forever. So in the mid-'90s they actively began looking for ways to develop both education and people. Since then, local companies have contributed to a technical high school in Rohnert Park and a tech academy at the Petaluma campus of Santa Rosa Junior College. Now they've done this.

Although the development of the master's program has been generally well received by town and gown, its private funding (the university has secured more or all of its targeted $8.5 million) did raise questions about corporate control of university programs. To steer the program through the various committees, Sonoma State insisted on complete control of the curriculum. The result, a privately funded but publicly administered program, is something Sonoma State President Ruben Arminana calls "a new version of the model between industry and higher education." Sonoma State has even thought about creating an undergraduate program in engineering (I wonder if that local companies will not hire the school's computer science students because they don't have enough electronics background).

There have been problems. It has taken three years to start the grad program at Sonoma State because time was needed to gauge the interest of local companies, raise funds, get programs approved, and find space on campus. Interested parties admit a four-year undergraduate program will be vastly more expensive, more complicated, and perhaps more time-consuming to start than a master's program. Moreover, warns Said Rahimi, Sonoma State's interim dean of the School of Natural Sciences, the local tech community may tire of waiting for one university to set up something it could initiate elsewhere.

IAB Meeting

Jan. 31, 2014
Interview with

John Schofield

President and CEO of
Advanced Fibre Communications, Inc.

BY LISA COWNEE
CONTRIBUTING EDITOR

PETALUMA - Advanced Fibre Communications designs, develops, manufactures, markets, and supports a cost-effective, multiservice digital loop carrier system that enables telecommunication companies to connect subscribers for high-speed digital data service as well as standard analog service. In other words, through its proprietary technology, the Petaluma company develops equipment to connect business and residential telephone subscribers to the telephone network, serving as the last link between home or work and the network.

Although AFC develops technology for the last mile of the telephone network, the company really is just beginning its journey to become a preeminent player in the telecommunications equipment industry. With the demand for bigger, faster, and more reliable data and voice communications, the market potential for AFC is huge.

For instance, AFC recently signed a deal worth around $110 million calling for Arcanum Communications to distribute AFC's UMCl000 product in more than 20 countries for three years. In another coup, AFC just signed an agreement with Fujitsu Telecommunications Europe that will incorporate AFC's products into Fujitsu's line of telecommunications equipment. This is a significant milestone for AFC as it continues to expand its presence in the European market.

BUSINESS JOURNAL: What key new products does AFC have in the pipeline?

JOHN SCHOFIELD: Our big product push is to enable customers to migrate from the narrowband to the broadband, which combines voice and data communication. We are talking about the Internet. It truly will be the next big product story in this industry. Looking at our DSL customers, we are the only vendor of the digital loop carrier platform that will be able to supply high-speed Internet access, helping people migrate from the narrowband to the broadband. That launch is coming up soon.

BUSINESS JOURNAL: What is the market potential for these products?

JOHN SCHOFIELD: It's huge! SBC Communications recently announced that it plans to deploy this ADSL (asymmetric digital subscriber line) technology to all markets over the next three to four years. SBC will spend $6 billion to do this. And it is just one large teleco with these plans; others will follow.

We are one of six supplying SBC, and one of only two that do it on the digital loop carrier platform. And we have it delivered.

BUSINESS JOURNAL: As an investor, what is the biggest challenge in growing the company?

JOHN SCHOFIELD: We are always looking to bring in new technology, enter new markets, or add products to the company. So although I can't comment on specific acquisitions we may have in mind, I can say our long-term strategy is to grow through acquisition.

BUSINESS JOURNAL: You just entered into an agreement with Fujitsu Telecommunications Europe to help you get more European business. Meanwhile, Lucent Technologies seems to be expanding very rapidly in Europe and in Germany in particular, where it just signed a huge deal with Deutsche Telekom. How does that affect your opportunity in Europe?

JOHN SCHOFIELD: It's unclear yet, because our relationship with Fujitsu is very new. However, the European market is huge, and we believe that our agreement with Fujitsu will help us penetrate it.

BUSINESS JOURNAL: What is the biggest challenge in growing the company?
JDS provides final link for SSU labs

Donation of $800,000 in telecom equipment fulfills vision of high-tech master's program

By BOB NORBERG
THE PRESS DEMOCRAT

JDS Uniphase is donating $800,000 worth of telecom test equipment to Sonoma State University, putting the finishing touches on the labs for SSU's new master's program in Computer and Engineering Science.

"If the students want to get into telecommunications, this is the equipment they will be using," said Fred Van Milligen, vice president and chief technology officer at Optical Coating Laboratory Inc., owned by JDS Uniphase.

The equipment brings total donations for the master's program to $8.2 million in cash and equipment, just shy of the $8.5 million goal set four years ago when SSU first began assembling the program at the request of Sonoma County's telecom industry.

"It is amazing that what we were dreaming about a few years ago is now coming to fruition," said Saeid Rahimi, dean of the School of Science and Technology. "The high-tech companies really care about the backbone of education in the North Bay. It is something that sets us apart from other communities."

The JDS equipment was the missing piece and will bring the SSU lab closer to being the world-class educational facility its creators envision.

"I would say with a great deal of confidence there is no parallel to this complex anywhere in the California State University system," Rahimi said.

The SSU master's program is the training ground for the technicians and engineers who will work in Sonoma County's Telecom Valley, where telecommunications devices are made and the next generation are being developed.

The SSU labs will train students on equipment that is the same as what is designed and made in Sonoma County, which should ease the transition from school to work at companies such as JDS, Next Level Communications, Advanced Fibre Communications and Agilent Technologies.

"One of the advantages of using the new equipment is they will understand the physics and use the equipment that they will use in the real world," Van Milligen said.

At the same time, the SSU labs will be a place for students employed in high tech to do design projects and research, Rahimi said.

"What we are trying to do is not only educate these students in the fields of high tech related to telecommunications and photonics, but also we are trying to provide an environment for startup companies and well-established companies alike to have a place for research and development," Rahimi said.

The graduate program began last fall with 35 students and will grow to 50 when classes begin this September in its new home in the remodeled Salazar Hall.

Salazar, which is undergoing a $21 million remodeling, will house offices, classrooms and eight laboratories for undergraduate and graduate science programs.

The labs will include photonics, lightweight communications, networking, microanalysis, electronics, broadband and wireless communications, computer science and human-computer interaction.

JDS Uniphase's equipment will be placed in the Cerent Engineering Science Complex, named for four principals in the telecom startup Cerent that was purchased by Cisco. They donated $4 million to the SSU program.

Van Milligen said the equipment is the same used by JDS Uniphase engineers in the OCLI metrology lab to measure filter and fiber optic performance. The company's products are used to translate digital data to light wave lengths, transport it over fiber optic lines, and then translate back to digital data.

Van Milligen said the equipment being donated is excess, some is two to three years old and some is new technology that has come into use in the past few months. The equipment is not needed because of the slowdown in the demand for tech equipment. JDS' thin-film division, of which OCLI is a part, had a 64 percent drop in sales in the third quarter ended March 31 compared to the previous year.

SSU has also received $1 million in equipment from Agilent Technologies for a lightweight lab that will bear its name, and $400,000 from the Keck Foundation for microanalysis microscopes.

JDS Uniphase had earlier donated $200,000 cash to the program, and Advanced Fibre Communications is another major donor, giving $1.1 million.

You can reach Staff Writer Bob Norberg at 527-5306 or bnorberg@pressdemocrat.com.
OCLI donates $1 million to SSU

Gift ensures computer sciences master's program can begin in fall 2001

BY BOB NORBERG
THE PRESS DEMOCRAT

Sonoma State University has received a $1 million donation from Optical Coating Laboratory Inc. for its master's program in computer sciences, bringing total donations to the program to $4.9 million. SSU officials said Monday.

SSU still hopes to raise a total of $9.5 million to fully fund the program, but the OCLI donation gives the university enough money to begin on schedule in the fall of 2001.

"This makes the difference," said David Rahimi, interim program director. "We can start the program with the help of this last gift. To do it in a decent way, we still need to get more money, but we can start it.""

At the same time, Sonoma State is negotiating with its top candidate for the position of permanent director for the program, Rahimi said.

"I am truly relieved, not only because of the $1 million, but because the participation of OCLI and its parent company, JDS Uniphase, is of immense importance," he said.

"A lot of what we are doing is geared toward what they are doing in optical communications. OCLI is a very important part of the optical communications industry," Rahimi said. "Without its support, it would look like something major is missing."

SSU created the two-year program at the request of the county's burgeoning high-tech industry, which is unable to attract enough workers to fill its needs.

There are 471 high-tech companies in Sonoma County, employing 15,000 people with a payroll of $710 million, according to a report by the county Economic Development Board.

In 1999, the telecommunications and technology industries generated almost 10 percent of Sonoma County's $1.6 billion economy, according to the county's high-tech report.

"We are very interested in actively supporting a high-caliber program such as this that will serve as a pipeline for new hires and a resource for career development for our current employees," said OCLI President Joseph Zilla.

The $1 million donation will be given over five years.

Before the OCLI donation, the program had received pledges of $2.2 million from a number of sources, including $1.1 million from Advanced Fibre Communications and $4 million from Cico Systems engineers David Scott, Paul Elliott, Chip Robertson and Ajab Bhadare, and Cico Network founders Mike Bestfield and Tom Coker.

JDS Uniphase, with headquarters in San Jose and Canada, purchased OCLI for $3.2 billion in February.

OCLI, with 1,900 employees in Santa Rosa, makes thin-film coatings and optical products that increase the data-carrying capacity of fiber-optic cable.

OCLI's two-year engineering program, which costs $380,000 to start, will give students a master's of computer engineering and science. It will handle 25 to 40 students at a time.

The curriculum will consist of 18 three-unit courses along two tracks: computer hardware and software systems, and communications and photonics.

Rahimi said the curriculum will be set once the permanent director is hired.

The program will be housed on the second floor of Salazar Hall, which as part of its $12.5 million renovation will have six advanced labs for computers, photonics, semiconductors, analog and digital electronics and microprocessors.

Salazar will also house SSU's existing undergraduate programs in computer sciences and physics.
OCLI gift

SSU computer science program will be lasting community asset

Next fall, thanks to the generosity and enlightened self-interest of local companies, Sonoma State University will begin to offer a master's degree in computer sciences.

In a world where technology is touching so many aspects of life, this is no small matter. People with computer skills are needed in all kinds of public and private enterprises. Moreover, people with computer skills will find opportunities, including a career — which is not a bad thing to have.

While we welcome engineers and other technical people who come here from other places, we also like the idea that local jobs can be filled by local residents.

Education is the key to that, beginning with good fundamentals that lead to advanced classes in math and science in high school and even more advanced classes at the community college and university levels.

Currently, there are no local programs providing the high-level skills that the SSU program will provide.

As Ben Knapp, who was appointed as director of the program on Wednesday, said, “Everyone, myself included, has to leave to go to engineering school in San Francisco or points south.”

A $1 million gift from Optical Coating Laboratory, Inc. announced this week, guarantees that the master’s program can begin late next year.

But other donations also deserve mention, including the $1.1 million from Advanced Fiber Communications, and $4 million from Cisco Systems engineers David Scott, Paul Elliot, Chip Robertson and Ajith Bhadari, and Calla Networks founders Mike Hartfield and Tom Corber.

Another $2 million is needed to reach the goal of $8.5 million, but in combination with the $13 million renovation of Sonoma Hall, this is a wonderful beginning for a resource that will make a lasting contribution to the well-being of Sonoma County.
SSU lab awarded $400,000

By BOB NORBERG
THE PRESS DEMOCRAT

Sonoma State University has received a prestigious $400,000 award from a Los Angeles foundation to equip a new technology research lab with microanalysis microscopes.

The new laboratory will be named after William M. Keck, who established the W.M. Keck Foundation, when the lab opens at the end of this summer as a centerpiece of SSU’s science instruction.

"It will be the focus of our new engineering science complex," said Saeid Rahimi, dean.
Master of Science in Computer & Engineering Science
Engineers donate $4 million to SSU

Six engineers from the former Cerent Corp. in Petaluma have committed $4 million toward the Sonoma State University master’s degree program in computer and engineering science. Ajaib Bhadare, Paul Elliott, Chip Roberson, Dave Scott, Mike Hatfield, and Tom Corker have donated the funds to help meet the employment needs of local companies such as Cisco/Cerent and to provide more Sonoma County residents the opportunity to work where they live.