Program

5 p.m. Reception
Benson Center—Brass Rail

6 p.m. Dinner
Benson Center—Brass Rail

7:30 p.m. Awards Presentation

Master of Ceremonies
Robert Khalipa
Chair
Engineering Awards Committee

Engineering Awards Presentation
Daniel Pitt
Dean
Distinguished Engineering Award

Patrick P. Gelsinger

Pat Gelsinger is senior vice president and chief technology officer (CTO) of Intel Corporation. He leads Intel's Corporate Technology Group, which encompasses many Intel research activities, including leading Intel Labs and Intel Research. Before his appointment as the company's first CTO, Gelsinger was the CTO of the Intel Architecture Group. Other positions Gelsinger has held at Intel include leading the Desktop Products Group and as general manager of the division responsible for the Pentium Pro, IntelDX2 and Intel486 microprocessor families.

Gelsinger holds six patents and six applications in the areas of VLSI design, computer architecture, and communications. He has more than 20 publications including “Programming the 80386,” published in 1987 by Sybex Inc. He has received numerous Intel and industry recognition awards, and his promotion to group vice president at age 32 made him the youngest vice president in the history of the company.

Gelsinger earned an associate's degree from Lincoln Technical Institute in 1979, a BSEE magna cum laude from SCU in 1983, and a master's degree from Stanford University in 1985. All degrees are in electrical engineering. Gelsinger is married and the father of four children.
Distinguished Engineering Award

Glenn A. Harris

Glenn Harris would have been born in Vallejo if his mother hadn’t been staying with her mother when he was born. Instead, Santa Rosa welcomed him on September 13, 1923. He grew up in Vallejo, graduated from high school in 1941, and attended the University of California, Davis for two years. He joined the Army in 1943. After Engineers Basic Training and a stint at Washington and Jefferson College in Pennsylvania to study engineering, Harris found himself in a Mortar Squad with the 84th Infantry Division. He went into Germany, where he was wounded.

After discharge, Harris entered SCU’s civil engineering program, graduating in 1948 with a BSME. He worked with the State Division of San Francisco Bay Toll Crossings and the Benicia Arsenal for three years before joining the City of Vallejo, where he served his community for 34 years. Harris began as resident engineer, was appointed city engineer and in short order became the public works director/city engineer. He held that post for 32 years until his retirement in 1985.

Harris was active with the League of Cities, the American Waterworks Association, the American Public Works Association, and the Bay Area Waterworks Association. Four of his technical papers were published. He also served on the board of directors of the YMCA and was past president and is a life member of the Vallejo Golf Club. He enjoys traveling and golf in his retirement.
Distinguished Engineering Award
Norm Vogel

Earning his BSME from SCU in 1948 after just two-and-a-half years is just like Norm Vogel. A man with boundless energy and ideas, Norm joined General Motors right after graduation, moving to Illinois to develop machinery for building locomotives at the Electro-motive Plant.

The San Francisco native soon transferred back to San Jose to join IBM. He began his career with IBM at the famous 99 Notre Dame site, which is known as the birthplace of magnetic disk recording. Norm appears in many of the photos chronicling the disk drive's invention.

When the hard disk was completed, he became manager of the Mohansic Advanced Systems lab. He later managed the Poughkeepsie lab where the systems 360 and 370 were developed. Around 1970, Norm moved to Research Triangle Park, N.C., as director of advanced technology. There he pioneered IBM's communication satellite program, local area networks and signal processing, essentially founding what is known today as IBM Microelectronics.

Immediately upon retirement from IBM in 1986, Norm joined the Computer Science Department at the University of North Carolina as director of communications research. There he designed and wired Sitterson Hall, the computer science building, with multiple Ethernet, voice, and broadband outlets in every office. Norm's expertise was quickly recognized and soon the entire campus was wired with broadband coax and optical fiber.

He retired to Santa Rosa in the early 1990s with his wife Marjorie. They have three children.
Outstanding Service Award

William J. "Bill" Adams Jr., P.E.

Bill Adams' academic honors were an early indicator of his future accomplishments. He earned his BSME from SCU in 1937, graduating magna cum laude. He was awarded the Nobili Medal, established in 1876, as the outstanding male graduate.

Adams' career began at General Electric in Schenectady, N.Y., where he designed the remote turrets for the B-29 and A-26 WWII bombers. In 1946 he joined FMC in California and quickly advanced to chief engineer. Adams earned the title assistant general manager of its technical center in Santa Clara in 1953.

In concert with his long career at FMC, Adams invested time and talent in SCU and the School of Engineering, in particular. Here are some highlights of his relationship with SCU:


1959: Chair of the Engineering Education Committee that led to the "Early Bird" programs for MSEE, MSMS, MSCE and MSEM.

1969: Chair of the Adobe Lodge Goals Conference, which led to the Ignatian Award in service of humanity.

1974: As a member of the Board of Overseers, he opposed dropping the School of Engineering over concerns that it was "too expensive."

1991: Member of the Engineering Alumni Board since its inception.

1991: Selected as an inaugural recipient of The School of Engineering's Distinguished Engineering Award.


1996: Led the designation of the John Montgomery 1883 glider as an ASME International Historic Mechanical Engineering Landmark.

1980: He and his wife Marijane funded a Mechanical Engineering Trust which will flow into the 1990 Adams Endowed Mechanical Engineering Scholarship Fund.
Adjunct Lecturer of the Year

Khaled El-Ayat

Khaled El-Ayat has been an adjunct professor at the School of Engineering since 1977, teaching graduate classes for the Electrical and Computer Engineering departments. Classes include all levels of computer architecture and organization, advanced microprocessor architectures, microprocessor system design, graphic and DSP processors.

In 1985, El-Ayat co-founded Actel Corporation. He secured venture capital, architected, and led the development of the first antifuse Field Programmable Gate Array. Actel is now a public company with $160 million in annual revenues and 500 employees. It is an established leader in FPGAs.

Prior to founding Actel, El-Ayat spent 10 years at Intel's Microprocessor Division, where he held a variety of technical and management positions. He managed the design and development of the 80386 microprocessor, Intel's first 32-bit microprocessor, as well as other x86 microprocessors.

El-Ayat is an inventor with more than 30 U.S. patents. He earned a bachelor of science degree in electrical engineering from Cairo University in 1968 and a master's degree in electrical and computer engineering from the University of Toronto in 1971. He earned his doctorate in electrical engineering and computer science from UC Santa Barbara in 1977.
Outstanding Service Award

Ned Biglieri

Ned Biglieri (BSME ’51) left his native San Francisco to pursue a degree in mechanical engineering at SCU. He found a tightly-knit campus where he made lasting friendships. Many of his classmates were veterans of World War II.

Biglieri spent 43 years at General Electric after graduating from SCU. He worked first in Schenectady, N.Y., spending three years working on the first application of land based gas turbines for locomotives and gas pipeline pumping. In 1956, he transferred to San Jose to work in GE’s Nuclear Energy Division. He spent the next 20 years in the design of the mechanical/hydraulic reactor control and emergency shut down systems. The remaining years were spent in engineering management and at retirement, he was manager of reactor design.

The School of Engineering sees a lot of Biglieri. He chairs two groups of alumni volunteers: the Technical Resource Group, which finds alumni to serve as technical consultants and mentors for seniors on their senior design projects and organizes design reviews for Computer Engineering and Mechanical Engineering; and the Student Leadership Committee, which works with groups of students who request funds for projects and presentations at out-of-town conferences.

He and his wife June have five daughters, two of whom are mechanical engineers. They have nine grandchildren.
Steven C. Chiesa is an associate professor of civil engineering and associate dean for undergraduate services at Santa Clara. Professor Chiesa earned a bachelor of science degree in civil engineering from SCU, a master’s of science degree in civil engineering from Stanford and a doctorate in civil engineering from the University of Notre Dame. Chiesa has been on the SCU faculty since 1987, teaching courses to civil engineering majors in the areas of environmental and water resources engineering. He has also regularly taught courses to majors and non-majors in statics, dynamics, and engineering economics. Chiesa has worked with the ASCE student chapter each year to provide review sessions for the EIT/FE Exam and has been the co-coordinator of many of the School of Engineering’s K-12 outreach programs. He is the author of more than 25 publications, is a member of ASCE, WEF, and AWWA, and is a registered professional engineer. Chiesa received the University’s annual Brutocao Award for Teaching Excellence in 1996.

Comments from students, faculty, and staff about Chiesa’s commitment to his students include, “Dr. Chiesa demonstrates an interest in students and their education that surpasses all other professors that I have had at SCU.” Or, “Steve goes well beyond the call of duty in helping his students; if he’s not in his classroom, he’s in his office, always available for drop-in assistance. He embodies the University’s themes of competence, conscience, and compassion.” And finally, “He is not just a great lecturer and professor, but a great supporter, moderator and friend to all students.”

Chiesa lives in Fremont with his wife, Alma. They have two sons, Thomas and Marc.
Professor Stephen A. Chiappari enjoys teaching at Santa Clara. His undergraduate courses in probability and statistics and in numerical methods are usually filled to capacity. Recently, he created a graduate course in cryptology—that is, the study of the theory and methods of secure communication. He earned a bachelor of science degree from Santa Clara and a doctorate from the University of Illinois, Urbana in mathematics. Chiappari’s research interests include analysis of functions of several complex variables, combinatorial optimization, and information security. He serves as president of the Santa Clara chapter of Phi Beta Kappa, the nation’s oldest honor society. As founding co-director of the Center for Advanced Study and Practice of Information Assurance, Chiappari has laid much of the Santa Clara University’s efforts to establish curricula, research programs, and partnerships with industry and government in the area of information security.
Tokunbo Ogunfunmi earned a bachelor of science degree in electrical and electronic engineering from the University of Ife, Nigeria, where he also earned national award scholarship honors. Following graduation, he worked as an electrical engineer at a radio station and later as an assistant lecturer at the University of Ibadan, Nigeria.

Ogunfunmi earned a master’s degree and doctorate in electrical engineering at Stanford University. While at Stanford, he was part of a team of graduate students who designed an advanced VLSI chip for NASA’s Search for Extra-Terrestrial Intelligence (SETI) project. He designed CAD tools for VLSI at the Stanford Center for Integrated Systems and again as a VLSI design consultant at AT&T Bell Labs.

In 1990, he came to SCU, where he is an associate professor of electrical engineering. He teaches courses in digital and adaptive signal processing, artificial neural networks, and VLSI system design. His research interests include adaptive signal processing, nonlinear signal processing, and speech and multimedia applications in wireless environments.

Ogunfunmi is a senior member of the Institution of Electrical and Electronic Engineers (IEEE). He has published more than 70 research papers in leading technical journals and conferences.
The Engineering Alumni Board 2003

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School of Engineering Distinguished Alumni

*Past Recipients*

**1991**
*Bill Adams, '37 BSME*
*Thomas J. Bannan, '36 BSME*
*Bill Nicholson, '36 BSCE*
*Edgar C. Schott, '26 BSCE*

**1992**
*Jess Herrera, '74 MSE*
*Jack Kuehler, '54 BSME, '86 MSE*
*Domenick Tenerelli, '62 MSME*
*Bill Terry, '55 BSEE*

**1993**
*E. Jackson Going Jr., '49 BSCE*
*Frank Greene, '70 Ph.D*
*Joe Marvin, '56 BSME*
*Frank Sordello, '60 BSEE, '66 MSE*

**1994**
*Mario Baratta, '64 BSCE, '71 MSCE*
*Anthony LaPine, '71 MSCE*
*John Nulkin, '36 BSCE*
*Adolph Quilici, '53 BSME*

**1995**
*Sam Cristofano, '74 MSPWA*
*Frank Cepollina, '59 BSME*
*George Leal, '55 BSCE*

**1996**
*Bill Cartger, '71 BSEE, '95 MSE*
*Patrick Cregan, '48 BSCE*
*Bill Gissler, '60 BSCE*
*Francis Murphy, '43 BSCE*

**1997**
*Ray Harbert, '51 BSEE*
*Gene Ravizz, '50 BSEE*
*Robert Wiedeman, '72 BSME*

**1998**
*Eugene J. Fisher, '50 BME*
*Harold J. Flannery, '20 BCE*
*Leo W. Ruth Jr. '38 BCE*

**1999**
*H. Paul Hensley, '63 BSCE*
*Richard R. Testwuide, '70 BSME*

**2000**
*W. Hall Evans, '51 BSCE*
*Anthony Turturici, '51 BSCE*

**2001**
*J. Robert Roll, '32 BSCE, '32 BSEE*
*Lee Hornberger, '69 BSME*
*Jon F. O'Brien, '72 BSCE*
*Lawrence O. Mackel, '56 BSCE*

**2002**
*Alfonso D. Callejas, '48 BSCE*
*John G. Balletto, '62 BSEE, '67 MSME*
*Vincent A. Di Tomaso, '50 BSEE*
*E. Lawrence Schott, '53 BSCE*
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