



5-5-2012

School of Engineering and Computer Science, Diploma and Hooding Ceremony

University of the Pacific

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School of Engineering and Computer Science

Diploma and Hooding Ceremony

Saturday, May 5, 2012 — 1 pm
Faye Spanos Concert Hall

University of the Pacific
Stockton, California

ACADEMIC PROCESSION

Banner Bearer

Faculty Marshals

**Candidates for the
Bachelor of Science Degree**

**Candidates for the blended
Bachelor of Science Degree
and Master of Science in
Engineering Science Degree**

**Candidates for the
Master of Science in Engineering
Science Degree**

**Faculty of the School of
Engineering and Computer Science**

Chaplain

**Dean of the School of
Engineering and Computer Science**

PROGRAM

Dean Ravi Jain, Presiding

Prelude *Selections from Elgar's Marches*

Guests will please remain seated during the processional.

Processional

“Pomp and Circumstance,”
March No. 1 in D, Op. 39
Sir Edward Elgar

Invocation *Ms. Dyan Hollenhorst
Interim Multifaith Chaplain*

Welcome *Dean Ravi Jain*

Valedictory Address *Mr. Ross William Yeager*

Presentation of Graduates *Professor Luke Lee
Assistant Dean Gary Martin*

Concluding Remarks *Dean Jain*

Pacific's Alma Mater *Phi Mu Alpha Sinfonia*

“Pacific Hail!”
Lois Warner Winston '23, '58

Benediction *Chaplain Hollenhorst*

Recessional *Selections from Elgar's Marches*

A reception honoring the graduates of the School of Engineering and Computer Science will be held immediately following the Diploma and Hooding Ceremony on the lawn north of Faye Spanos Concert Hall. Parents, students, faculty, honored guests and friends are cordially invited to attend.

DEGREES CONFERRED

Bachelor of Science, Bioengineering

Evan Clinton Angeli***
Tyler Casey Chuang
Nestor A. Decierdo Jr.
Matthew Isaiah Ebia**
Grace S. Ramos
Isha Srivastava
Eileen Thai

Bachelor of Science, Civil Engineering

Matthew B. Anderson
Elizabeth Orozco Avelar
Thanh Do Ngoc***
Evan Wynne Eyster
Dameon Christopher Flores
Bryant Yoshito Fukuda
Caroline Brigid Grant*
Scott McCreight Henderson
William James Moreno
Hai Ngoc Ngo
Jesse James Proud
Justin Jae Young Pyun
John David Romero
Vicki LyLy Thai
Roberto Damian Vera*
Margaret Rae Wild*
Damasio Zepeda Aragon

Bachelor of Science, Computer Engineering

Edward Agatep Berbano
Alan Sidney Joe
Koh Nishide
Brandon Anthony Shields
Nicholas Yuen*

Bachelor of Science, Computer Science

Jeremy Ai
Thomas G. Andrew
Michael J. Bruckel
Luis O. Caraballo Jr.
Avneet Singh Chadha
Brendan Jonathan Chan
Jerry (Hsin Cheng) Chen
Joseph David Cooper
Kathryn Erin Crader
Andrew David Dirksen
Henry Tuan Anh Do*
Kyle K. Dodge
Thomas Anthony Mendoza**
Jessica Anne Semler
Christopher Trondsen

Bachelor of Science, Electrical Engineering

Steven Kenneth Brown
Casey Robert Dial
Caroline Ann Dozsa**
Jonathon Philip Hagerty
Joseph M. Hasekamp*
Trang Nguyen*
Joohyoung Shin
Gary Lai Bun Tang
Chris Xiong
Ross William Yeager***

Bachelor of Science, Engineering Management

Scott R. Anderson
Robert Joseph Barry
Sean Michael Daley
Kristina McKay Hammarstrom*
Ryan Y. Kim

Bachelor of Science, Engineering Physics

Mark El Prophet Reed

Bachelor of Science, Mechanical Engineering

Steven Barry**
Craig Tyler Burton**
Carl Andrew G. Castro
Lane Christopher Cowan
Lindsey Miho
Jessica Elizabeth Ovieda
ByungHoon Park
Joel Parra Hermosillo**
Phillip Jae Duk Yun
Bonnie Zhu**

Master of Science, Engineering Science

Wesley T. Agena
Evan Clinton Angeli

Vikas Azad

Dr. Rahim Khoie

*Thesis: Modeling
Distributed Energy System
for the U.S. Electricity
Production through 2050*

Andre Kamran Bayati

Edward Agatep Berbano

Dr. Emma J. Bowring

*Thesis: Further Applications
of Neural Networks to
Gesture Recognition*

Michael J. Bruckel

Robert Andrew Camfield

Dr. Jiancheng Liu

*Thesis: Optimization of
Machining Characteristics for
Advanced Ceramic Materials*

Brendan Jonathan Chan

Kathryn Erin Crader

Phuoc An Dang

Matthew Isaiah Ebia

Kristina McKay Hammarstrom

Robert Shigehisa Hasegawa

Dr. Louise Stark

*Thesis: Using Synthetic Images
to Enhance Iris Recognition*

Joseph M. Hasekamp

Azriel Joaquin

Alan Sidney Joe

Royceton Tinley Lee

Joel Parra Hermosillo

Justin Jae Young Pyun

John David Romero

Jessica Anne Semler

Brandon Anthony Shields

Kristen Nicole Mie Shimizu

Dr. Ravinder Jain

*Thesis: Water Quality
Monitoring of Biological
Contaminants-Rapid,
On-Site Detection
Technologies*

Chelsea Lorraine Spier

Dr. William Stringfellow

*Thesis: The Fate and
Distribution of Subsurface
Hydrocarbons Released
During the 2010 MC252
Oil Spill in Deep Offshore
Waters of the Gulf of Mexico*

Kristin Nicole Taylor

Roberto Damian Vera

Margaret Rae Wild

Guangxi Xiong

Dr. Jiancheng Liu

*Thesis: A Study on Active
Contour Model Based
Image Processing System
for Cutting Tool Wear
Measurement*

Adam Jacob Yee

Dr. Jeffrey Shafer

*Thesis: Sharing the Love:
A Generic Socket API for
Hadoop MapReduce*

Victoria Elizabeth Yee

Dr. Rahim Khoie

*Thesis: Predicting the
Renewable Energy Portfolio
for the South of the United
States through 2050 by
Matching Energy Sources
to Regional Needs*

Damasio Zepeda Aragon

Kai Zhu

Dr. William Ford

*Thesis: Web-Based
Atmospheric Nucleation
Data Management and
Visualization*

*Cum laude **Magna cum laude ***Summa cum laude

The list of names as it appears in this program includes actual and potential graduates for the 2011–2012 academic year. The above “graduation with honors” distinctions are contingent upon final grade point average calculations at the completion of all relevant degree requirements. The official list of graduates and honors awarded for each graduation date of the 2011–2012 year is maintained by the University Registrar.

HONOR SOCIETY INDUCTEES

Alpha Sigma Lambda

Alpha Sigma Lambda is the national honor society recognizing excellence among nontraditional students, meaning those who have returned to college later in life and who achieve academic excellence while also fulfilling adult duties of work and family life.

Edward Agatep Berbano*

**inducted on 2011*

Phi Beta Kappa

Founded in 1776, Phi Beta Kappa is the oldest academic honor society in the United States and the first fraternity to use a Greek letter name. The society embraces principles that lay the foundations of personal freedom, scientific inquiry, liberty of conscience, and creative endeavor. Phi Beta Kappa recognizes the highest achievement in the liberal arts, with a small number of members selected from among the top 10% of their class. Nationwide each year, about one college senior in a hundred is invited to join Phi Beta Kappa.

Thomas Anthony Mendoza

Phi Kappa Phi

Among honor societies that induct members from all academic disciplines, Phi Kappa Phi, founded in 1897, is the nation's oldest, largest, and most selective. Invitation is extended to graduating seniors and graduate students in the top 10% of their class, and to juniors in the top 7.5% of their class. The mission of the society is to recognize and promote academic excellence and to engage the community of scholars in service to others.

Craig Tyler Burton*

Caroline Ann Dozsa

**inducted in 2011*

Tau Beta Pi

Founded in 1885 to recognize those who have conferred honor upon their alma mater by distinguished scholarship and exemplary character as undergraduates in the field of engineering, or by their attainments as alumni in the field of engineering, and to foster a spirit of liberal culture in the engineering colleges, Tau Beta Pi is the only national scholastic engineering honor society which recognizes academic excellence in all engineering disciplines.

Evan Clinton Angeli

Steven Barry

Craig Tyler Burton

Thanh Do Ngoc

Caroline Ann Dozsa

Matthew Isaiah Ebia

Dameon Christopher Flores

Caroline Brigid Grant

Kristina McKay Hammarstrom

Joel Parra Herмосillo

Margaret Rae Wild

Ross William Yeager

Nicholas Yuen

Bonnie Zhu

AWARDS

Valedictorian

Ross William Yeager

Outstanding School of Engineering and Computer Science Graduate

Kristina McKay Hammarstrom

Academic Excellence

Bioengineering — Evan Clinton Angeli

Civil Engineering — Thanh Do Ngoc

Computer Engineering — Nicholas Yuen

Computer Science — Thomas Anthony Mendoza

Electrical Engineering — Ross William Yeager

Engineering Management — Kristina McKay Hammarstrom

Mechanical Engineering — Steven Barry

Outstanding Graduate

Bioengineering — Tyler Casey Chuang

Civil Engineering — Caroline Brigid Grant

Computer Engineering — Brandon Anthony Shields

Computer Science — Kathryn Erin Crader

Electrical Engineering — Caroline Ann Dozsa

Engineering Management — Sean Michael Daley

Mechanical Engineering — Craig Tyler Burton

Outstanding Co-op

Joseph M. Hasekamp

Who's Who in American Universities

Evan Clinton Angeli

Steven Barry

Craig Tyler Burton

Tyler Casey Chuang

Thanh Do Ngoc

Caroline Ann Dozsa

Matthew Isaiah Ebia

Caroline Brigid Grant

Kristina McKay Hammarstrom

Joseph M. Hasekamp

Thomas Anthony Mendoza

Lindsey Miho

Jessica Ovieda

Joel Parra Herмосillo

Margaret Rae Wild

Ross William Yeager

Bonnie Zhu

Scholar-Athlete Laureate

Kristina McKay Hammarstrom

HISTORY OF THE SCHOOL

The School of Engineering and Computer Science

Engineering instruction at University of the Pacific began in 1924 as an area of concentration within College of the Pacific, producing some truly outstanding graduates. In 1958, the engineering program moved from College of the Pacific under the direction of its own dean, and became the School of Engineering. Bachelor's degrees were first offered in civil and electrical engineering and engineering management. The curricula in civil and electrical engineering were accredited in fall 1971 by the Engineering Council of Professional Development, now called the Accreditation Board for Engineering and Technology (ABET).

That same year, the School adopted a mandatory cooperative education program as a requirement for graduation, providing practical, paid engineering work experience that enhances the student's academic preparation by relating theory to practice. In 1997, the School launched the Engineering Industry Fellowship program, which provides eligible students four years of paid industry experience, an industry mentor, and an annual scholarship.

The degree program in computer engineering was offered in 1978, and programs in engineering physics and mechanical engineering were instituted in 1981 and 1982. All three programs subsequently received ABET accreditation. The engineering management program was formally accredited in 2003. Bioengineering, the school's newest program was approved in 2000.

The computer science program was accredited by the Computer Science Accreditation Commission (also now ABET) in fall 1990 as a program in College of the Pacific. Computer Science joined the School of Engineering in 2002, creating the School of Engineering and Computer Science.

The Board of Regents approved the Master of Science in Engineering Science (MSES) graduate program in April 2009. The program was successfully launched in fall 2009, with a concentration in civil engineering. In fall 2010, three additional concentrations were added: electrical/computer engineering, computer science and mechanical engineering. While laying the foundation for a graduate program, the School streamlined its undergraduate curriculum, generated more than \$8 million

in external research funding, and recruited outstanding new faculty members with extensive teaching, research and industry experience.

The new 24,000-square-foot John T. Chambers Technology Center opened for classes in fall 2010. The \$12-million facility serves as the new home of the School of Engineering and Computer Science and provides a strong foundation for the new MSES graduate program. Equipped with the latest technology, the Chambers Technology Center contains lecture rooms, faculty offices, conference rooms, and collaborative research and teaching laboratories where students work directly with industry and government agencies to focus on modern innovations. The Chambers Technology Center is Pacific's first building to be certified as a LEED (Leadership in Energy & Environmental Design) gold facility.

The School of Engineering and Computer Science has cast a mission statement "to provide a superior, student-centered learning environment which emphasizes close faculty-student interaction and cooperative education in order to prepare graduates who excel in engineering and computer science professions, are qualified to pursue advanced degrees and possess the technical knowledge, critical thinking skills, creativity and ethical values needed for leadership in developing and applying technology for the betterment of society and sustaining the world environment."

PROFILE OF PACIFIC

University of the Pacific is an independent, coeducational university serving more than 6,500 students on three campuses in Stockton, San Francisco and Sacramento. It was established by pioneer Methodist ministers in 1851 as California's first chartered institution of higher learning. Pacific has earned widespread recognition for its student-centered approach to education, its many innovations, and the accomplishments of its 55,000 living alumni.

As an innovator and leader in higher education, Pacific provided the West Coast with its first medical school in 1858 (which later became part of Stanford, and today is California Pacific Medical Center); its first coeducational campus in 1871; and its first conservatory of music in 1878.

It was the nation's first to offer an undergraduate teacher corps program, the first to send an entire class to an overseas campus, the first to establish a Spanish-speaking inter-American college, and the first to offer a four-year graduation guarantee. With its move from San Jose to Stockton in 1924, Pacific became the first private four-year university in the Central Valley.

Shortly after occupying the new campus, Pacific established one of California's earliest schools of education. In 1992 it was renamed the Gladys L. Benerd School of Education in honor of the alumna's endowed gift.

Pacific has enjoyed extraordinary stability in administration. Dr. Pamela A. Eibeck began her service in 2009 as the sixth President since the University's move to Stockton in 1924 and the 24th since its founding in 1851. The University experienced its greatest growth and an expansion into graduate and professional education under the administration of Dr. Robert Burns (1947–1971). The School of Pharmacy opened in 1955. It is now the Thomas J. Long School of Pharmacy and Health Sciences, in honor of the Pacific benefactor and Regent who co-founded the former Longs Drugs Stores. In 1956 the graduate school was created, and in 1957 the School of Engineering was established. The Department of Computer Science joined the school in 2002 and was subsequently renamed the School of Engineering and Computer Science.

In 1962, the University acquired the College of Physicians and Surgeons, a school of dentistry founded in San Francisco in 1896. In 2004, the school was named the Arthur A. Dugoni

School of Dentistry in honor of its dean of 28 years. It was the first time any university in the United States or Canada had named its dental school for the current dean.

Three new cluster colleges were established at Pacific in the 1960s, in the model of British universities such as Oxford and Cambridge. These colleges integrated faculty and students into distinct living and learning communities. Raymond College, established in 1962, was an accelerated, interdisciplinary liberal arts program in which students shaped their own courses of study. Elbert Covell College, established in 1963, was a unique inter-American college. Half the students were from the U.S. and half from Latin America, with classes taught in Spanish. Callison College, established in 1967, focused on non-Western studies with a year of study in an Asian culture. The cluster colleges were absorbed into the rest of the University in 1982. Their values, including a close-knit learning community, accelerated and interdisciplinary programs, and self-designed majors, have left a lasting impact on Pacific. Their emphasis on global education continued in the School of International Studies, founded in 1987 as the first university-based undergraduate school of international studies in California.

In 1996, Pacific broadened its footprint to Sacramento when McGeorge College of Law, an independent law school founded in Sacramento in 1924, merged with the University as the Pacific McGeorge School of Law. In 1977, the department of business administration in College of the Pacific was reorganized as the School of Business and Public Administration. In 1995 it was renamed Eberhardt School of Business in honor of the Eberhardt family's endowed gifts. In 1985, programs designed specifically for adult re-entry students were reorganized and revitalized through University College, now the Center for Professional and Continuing Education.

Over the last twenty years, Pacific has advanced its legacy of innovation and leadership. In 1992 the University offered the nation's first "four-year guarantee," a promise to students that they will graduate on time if they meet certain requirements. Under the leadership of President Donald DeRosa (1995–2009), the University invested in more than \$200 million in facilities renovation and construction projects on all three campuses. Pacific also increased distinctive accelerated programs that enabled

students to complete undergraduate studies in combination with professional degrees in pharmacy, law, dentistry and business. The University intensified its commitment to experiential learning, including undergraduate research, internships, community service and education abroad. Pacific also launched an environmental sustainability initiative and instituted the Powell Scholars Program, a premier scholarship program for undergraduate student leaders.

In 1999, jazz legend Dave Brubeck and his wife Iola, both Pacific graduates, announced that their papers, recordings and memorabilia would be deposited at Pacific for study and research. In response to this gift, a treasure of historic American music and memorabilia, the University established The Brubeck Institute for the study, promotion and performance of American music.

Since assuming the Presidency in 2009, Dr. Pamela A. Eibeck has identified several priorities for the University's future: enhancing the academic enterprise; developing as a three-city and global University; enriching diversity and inclusivity; and serving community through partnerships at the local, national and global levels.

Under her leadership, in 2010 the University launched the "Beyond Our Gates... Into the Community" initiative to create and enhance community partnerships that improve lives in our region. As part of "Beyond Our Gates," the University has launched The Tomorrow Project, an intensive K-12 educational outreach program; the Beyond Our Gates Community Council, an advisory body of regional leaders; and the Dialogs of Distinction, biannual discussions of critical issues facing our region.

President Eibeck has also instituted a University-wide strategic planning effort, led by Provost Maria Pallavicini, to help Pacific prepare for current and coming changes in higher education, work and the economy.

In November 2011, the University finalized the purchase of a new campus in San Francisco at 155 Fifth Street. The new campus provides the space and facilities the Arthur A. Dugoni School of Dentistry needs to remain one of the nation's top dental schools. It also affords Pacific an opportunity to expand its programming and visibility in San Francisco.

Pacific continues to enjoy national recognition for its leadership in higher education. The University has been listed as a "Best Value" (Top 50) by *U.S. News & World Report* every year since 2000 and is consistently ranked among the top 100 national universities in the country by *U.S. News* and others. Undergraduate applications have soared from approximately 5,300 in 2008 to more than 21,000 for fall 2011. The University remains committed to its personal, student-centered approach. Faculty and staff are dedicated to excellence in teaching. Highly interactive student-faculty relations and a broad array of co-curricular activities that develop students' abilities are hallmarks of the Pacific experience.

SCHOOL AND COLLEGE BANNERS

School and college banners signifying each of the academic units of the University precede a unit's faculty in the procession and are displayed during the ceremony. The color of the banner symbolizes the academic discipline.

College of the Pacific — The golden yellow field of this banner represents the sciences, while the white letters signify the arts and humanities. Founded in 1851, the College of the Pacific is the largest and oldest academic unit.

University Library — This banner's lemon-yellow color represents the library sciences. The Library has supported teaching, learning and scholarship since Pacific's founding in 1851. It is home to many special collections, including the papers of naturalist John Muir and musician Dave Brubeck.

Conservatory of Music — The tradition of representing music with the color pink originated at Oxford University. Pacific's Conservatory, established in 1878, is the oldest university-affiliated school of music in the West.

Arthur A. Dugoni School of Dentistry — The lilac color of dentistry forms the field for this banner. Founded in 1896 as the College of Physicians and Surgeons, the School became part of the University in 1962. It is named in honor of the alumnus who served as dean of the school from 1978 to 2006.

Pacific McGeorge School of Law — Purple, a color traditionally associated with royalty and governance, represents the law. Named in honor of its founder, Verne Adrian McGeorge, the School opened in 1924 and merged with Pacific in 1966.

Gladys L. Benerd School of Education — The light blue field signifies disciplines related to education. The School is named in honor of the distinguished alumna who bequeathed the school with an endowment. It was founded in 1924 when the University moved to Stockton.

Thomas J. Long School of Pharmacy and Health Sciences — Pharmacy is represented by olive green, a color associated with healing herbs. The School, established in 1955, is named for the benefactor and Regent who, with his brother Joseph, founded Longs Drugs Stores.

Research and Graduate Studies — Red-orange signifies this division, which was established in 1956 as Pacific expanded its graduate degree offerings.

School of Engineering and Computer Science — This banner's orange represents the engineering and computer science disciplines. Pacific's School of Engineering and Computer Science was founded in 1957 from a department that dates to the 1930s.

Eberhardt School of Business — The School's banner features an olive brown field. Founded in 1977, the School was renamed in 1995 in honor of the Eberhardt Family's endowed gifts.

School of International Studies — Peacock blue symbolizes the field of international studies. The School was established in 1987 with a gift from George and Isabelle Wilson.

SIGNIFICANCE OF ACADEMIC REGALIA

Distinctive academic dress can be traced back to the universities of the Middle Ages when university students and faculty wore the robes of the clergy. Today three ranks of degrees are distinguished through variations in the robes, which also indicate the discipline and the university that awarded the degree.

In the United States, gowns generally are black. The color of the edging of the hood and occasionally the color of the facing and crossbars on the doctoral gown indicate the field of learning in which the degree is awarded. The colors of the lining of the hood are those of the institution awarding the degree. Generally, bachelor's and master's tassels are black, and doctoral tassels are gold. After graduation the tassel is worn on the left side of the Mortarboard. An individual's degree is revealed by the type of gown and width of the edging on the hood.

Bachelor's gowns have full, pointed sleeves with no trimming. Hoods have a two-inch edging. Master's gowns prior to 1960 had full, closed sleeves with the arm emerging through a slit at the elbow. In 1960, the gown was modified replacing the elbow slit with an opening at the wrist, and the gown was made to close. Hoods have a three-inch edging. Doctor's gowns are of silk, have rounded sleeves, velvet facing down the front and three velvet crossbars on each sleeve. Hoods have side panels and a five-inch facing.



Pacific Hail!

Words and Music by
Lois Warner Winston '23, '58

*From o'er the rugged mountains
standing high;*

*From out the broad low valleys,
'neath the sky;*

Our alma mater calls, we cannot fail,

Our voices blend in praise,

Pacific Hail! Pacific Hail!

Long may her flaming torch give out its light;

Long may her spirit guide us in the right;

*To her we pledge our hearts,
We dare not fail;*

To her we raise our song,

Pacific Hail! Pacific Hail!

**School of Engineering
and Computer Science**

**209.946.2151
Pacific.edu/ENG**