KECK GRADUATE INSTITUTE
of Applied Life Sciences

ANNUAL REPORT 2009-2010

"The best evidence of our fundraising success was the early completion of our challenge grant from the W. M. Keck Foundation. The foundation's generous $20 million grant in 2005 required KGI to match those funds with $30 million in new philanthropic support within seven years."

MESSAGE

from the President and Chair of the Board

ROBERT E. CURRY

SHELDON M. SCHUSTER

FOCUSING ON THE FUTURE

Keck Graduate Institute was founded on the idea that truly effective preparation of future leaders in the life sciences industry would require a complete redesign of the traditional approach to graduate education. KGI pioneered the professional science master's degree, merging science and business in an entirely new, integrated way, with rich experiential learning components and a strong collaborative relationship with industry.

KGI is still a young institution, and remains a small, nimble one. At the start of the 2009-10 academic year, we welcomed our 10th entering Master of Bioscience (MBS) class, numbering 55 students. Our relative youth, size, and innovative spirit have helped make KGI remarkably adaptable and self-reflective as we continuously fine-tune and improve our educational model. We are willing and able to experiment and shift direction as needed, shaping our future as an institution as we build upon our successes.

While we continue to refine our MBS program, we also have expanded our academic programs. During 2009-10 we welcomed our first cohort in the Postdoctoral Professional Masters in Bioscience Management (PPM), and prepared to launch our new Postbaccalaureate Premedical Certificate (PPC) program, which provides students with the opportunity to distinguish themselves from other medical school candidates. We have been gratified by the quality and quantity of applicants for both of these innovative programs.

KGI has been warmly embraced by the life sciences industry, with steadily growing support for our research centers and other faculty research efforts. KGI's Center for Rare Disease Therapies hosted a highly successful workshop with the Food and Drug Administration and life sciences companies this year, resulting in 16 drugs garnering rare disease designation at the conclusion of the two-day workshop.

We continue to be excited and gratified by the synergy between the Center for Rare Disease Therapies and our new Center for Biomarker Research, which established its laboratory during the past year and is actively searching for new rare disease markers.

The number of companies sponsoring our capstone Team Masters Projects grew to 13 in 2009-10, providing students with incomparable opportunities for intensive hands-on learning in service of real issues faced by leading life-science companies and promising startups. This report includes a story on the impressive growth of the TMP program at KGI. In this report, you will also see the increasing number of endowed funds for fellowships and professorships that help KGI attract top talent to both our student body and faculty.

The best evidence of our fundraising success was the early completion of our challenge grant from the W. M. Keck Foundation. The foundation's generous $20 million grant in 2005 required KGI to match those funds with $30 million in new philanthropic support within seven years. At the time, we knew it was a significant challenge, yet we reached our target in six years. This remarkable success represents the entire enterprise working in collaboration to build the KGI brand and raise awareness of our unique and valuable educational model. And, our goal could not have been met without the generosity and vision of our donors.

As KGI continues to grow, we will remain true to the pioneering idea upon which we have built our institution. We will continue to refine our educational model to remain at the leading edge of the life sciences so that we may help ensure a better future for our graduates, the industry, and those who will benefit from the resulting life-saving advances.

Sheldon M. Schuster
President

Robert E. Curry
Chair of the Board

KECK CHALLENGE

Keck Graduate Institute Meets $30 Million Challenge Grant a Year Early

WHEN THE W. M. KECK FOUNDATION challenged Keck Graduate Institute to raise $30 million in seven years, KGI buckled down—and finished a full year ahead of schedule.

By leveraging gifts from an expanding network of donors, the institute solidified its position as a pioneer in bioscience education and increased its fiscal stability, all while doubling student enrollment.

"The challenge grant was a transforming gift," says KGI President Sheldon M. Schuster, PhD. "It was investment money that allowed us to grow, build our brand and serve as a model for others."

Awarded in 2004, the $20 million Matching Challenge Grant was the Keck Foundation's second-largest gift to KGI, following a $50 million grant to establish the institute in 1997.

In turn, the $30 million raised by KGI during the challenge grant period provided for eight new endowed fellowships, seven endowed professorships and seed funding for the Center for Rare Disease Therapies and the Center for Biomarker Research, among other initiatives.

The funding also supported KGI's day-to-day operations, such as state-of-the-art classrooms and research laboratories that helped raise the institute's profile as a locus of innovation in the life sciences industry. The largest chunk of funding—$7.6 million—directly supported students.

"The fact that we succeeded in raising this money a year early is a remarkable testimony to the importance of KGI," says

> "The challenge grant was a transforming gift," says KGI President Sheldon M. Schuster, PhD. "It was investment money that allowed us to grow, build our brand and serve as a model for others."

Robert Curry, chairman of the KGI Board of Trustees. "In these economic times, people don't give money unless they think it is an important cause and they believe in it."

Approximately $14 million of the $30 million that KGI raised will go toward endowment to support the institute's long-term financial sustainability.

Net tuition revenue has increased five-fold since the challenge began in 2004. At the same time, KGI's Advisory Council grew to 43 active members, while its board reached 25 trustees. The institute also increased its total number of donors by 36% and doubled corporate sponsorships of its capstone Team Masters Projects, where small groups of students work with sponsoring companies to solve real world problems. The projects are a point of pride for KGI and a market differentiator.

The infusion of funding also strengthened KGI's Postdoctoral Professional Masters (PPM) degree, a one-year program to educate scientists and engineers to become leaders of the bioscience industry. The institute's Master of Bioscience (MBS) degree has become the national standard by which nearly 200 other Professional Science Master's degrees are measured.

"The challenge grant's impact is much greater than dollars," says Curry. "It forced us to really get out there and make our story known."

KECK CHALLENGE

Endowed Professorships Support Leading-Edge Research

STEVEN CASPER

JAMES D. STERLING

From developing life-saving vaccines in sub-Saharan Africa to delving into the economics of biotechnology commercialization, KGI professors Steven Casper, Matthew Croughan, James Sterling and Larry Grill are committed to driving social change. These four faculty hold the professorships that were established during the $20 million Matching Challenge Grant given by the W. M. Keck Foundation in 2004, which required KGI to raise an additional $30 million. Here is a closer look at the four men and their endowed professorships.

STEVEN CASPER

Steven Casper, PhD, the Henry E. Riggs Professor of Management, is an authority on biotechnology industry clustering, an issue confronting every community with aspirations of becoming biotech's next Boston, San Francisco or San Diego. Casper's studies of clustering in the U.S., Canada and Europe demonstrate that it takes more than venture capital or prestigious research universities to maximize biotechnology activity. Rather, clustering requires a vibrant network connecting industry stakeholders that can streamline the flow of information and provide a relative safety net for workers in a highly volatile sector.

Casper, director of the Postdoctoral Professional Masters (PPM) program and an Orange County native, came to KGI in 2003 from the University of Cambridge, UK, where he was a lecturer on innovation and entrepreneurship. In 2008, he became the first KGI faculty member to win a Fulbright Scholarship for his work studying the formation of regional biotechnology clusters in Canada. He teaches courses on bioscience business strategies and successful entrepreneurship, and has teamed up with faculty from The Claremont Colleges' Joint Science Department to offer a series of introductory courses to pique interest in the sciences among liberal studies majors.

The Riggs professorship was founded by Stanford N. Phelps, a longtime member of the KGI Board of Trustees, in dedication of Henry "Hank" Riggs, KGI's founding president.

JAMES D. STERLING

Microchips and microbiology collide in the research of Dr. James D. Sterling, an expert in fluid mechanics and the Sidney J. Weinberg Jr. Professor of Applied Life Sciences. When he's not fulfilling his duties as vice president for academic affairs and dean of faculty, Sterling co-directs KGI's Microfluidics Research Lab, which studies the application of microfluidics and electrohydrodynamics to biochips. Such technology is expected to help lower the costs of DNA testing, genomics research, drug discovery and medical treatment. Sterling's work helps automate the laborious technical processes behind clinical testing. He was elected as president of the Association for Laboratory Automation in 2008.

Sterling was a driving force in crafting KGI's bioengineering curriculum and promoting the institute's distinctive hybrid educational model, blending science and business. He is the former director of the capstone Team Masters Project, in which teams of four to six students work with leading biotechnology companies on real-world problems.

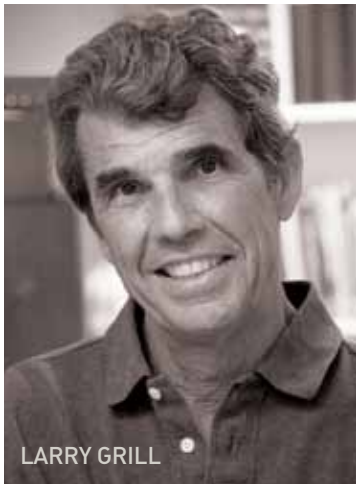
The Weinberg professorship was funded through a $2.5 million gift from KGI co-founder and board chair emeritus, Sidney J. "Jim" Weinberg Jr.

Continued on page 4.

KECK CHALLENGE

Continued from page 3.

MATTHEW CROUGHAN


LARRY GRILL

MATTHEW CROUGHAN

Matthew Croughan, PhD, the George B. & Joy Rathmann Professor at KGI, brings more than 28 years of research, engineering, bioprocessing and manufacturing experience to his position directing the Amgen Bioprocessing Center. Croughan founded the Bioprocessing focus track of the MBS program five years ago; KGI now boasts one of the largest masters programs in bioprocessing in the U.S., with 15-20 bioprocessing graduates per year. Extensive hands-on training gives students the bench-level understanding needed to compete for positions at the world's largest biotechnology firms.

After earning a PhD in chemical engineering from MIT in 1988, Croughan served in various roles at Genentech, including chief scientist for Genentech's cell culture facility in Vacaville, California. He successfully developed the first FDA-licensed, fed-batch cell culture process which is now used throughout the industry to produce recombinant proteins, particularly high-dose therapeutic antibodies.

At KGI, Croughan's teaching explores the shifting view of recombinant cell culture as a production method of last resort to broad acceptance over the last 25 years, along with focusing on future challenges involved in commercializing biofuels and cell therapies. As an independent consultant, Croughan offers expert guidance on biopharmaceutical process development and manufacturing issues to more than 50 firms. He has presented his research at dozens of conferences and seminars, including the Cell Culture Engineering XI conference in Queensland, Australia, the IBC Life Sciences' Cell Line Development and Engineering Summit in San Francisco, and at the Society for Biological Engineering's First International Conference on Stem Cell Engineering in Coronado, California.

The endowed professorship was established through a $1.75 million gift from Dennis and Linda Fenton. Dennis Fenton, a former executive vice president of Amgen and current member of the KGI Board of Trustees, named the professorship in honor of biotech pioneer George Rathmann and his wife, Joy.

LARRY GRILL

Larry Grill, PhD, the Joe and Vi Jacobs Visiting Professor, directs the Vaccine Development Institute at Pitzer College. The institute works with the University of Botswana to develop low-cost, Botswana-produced vaccine technology to address urgent health priorities in southern Africa. Together, they hope to use a common plant virus, the tobacco mosaic virus, to rapidly identify immunoactive antigens for disease-causing human and animal pathogens, and then produce a vaccine that can be stored at room temperature in the form of a dried powder.

The work builds on 20 years of Grill's own research. A founding scientist at Large Scale Biology Corporation in Vacaville, Grill helped develop and manufacture plant-made pharmaceuticals and vaccines that provided therapeutic treatments to non-Hodgkin's lymphoma patients. Grill earned his PhD from the University of California Riverside in 1979, and is an inventor on more than 30 issued U.S. and world patents. At KGI he will co-teach courses on biotech-based therapeutics, drug development, medical devices and biologics regulation.

Dr. Joseph J. Jacobs, now deceased, founder of Pasadena-based industrial technology company Jacobs Engineering Group, and his wife, Violet, funded the professorship through a generous endowment.

Previous Jacobs Visiting Professors include Molly Schmid, PhD, now a full-time professor and entrepreneur-in-residence at KGI, and Gary Cohen, formerly vice president of ethics and corporate responsibility at Millennium Pharmaceuticals, who taught courses in bioethics and biotech intellectual property and licensing.

BY MARGIE FISHMAN

KECK CHALLENGE

Center for Biomarker Research Spurs Innovation in Diagnosis, Treatment

(from L to R): Professors Craig Adams and Jim Osborne, HMC students Emily Putnam and John Cvitkovic and KGI student Alice Lai

ESTABLISHED DURING KECK GRADUATE INSTITUTE'S challenge-grant fundraising initiative, the Center for Biomarker Research (CBR) teaches students how to develop diagnostic tools for biomarker discovery, which could lead to better treatment outcomes for patients with rare and other diseases.

Established in 2008 with a $150,000 grant from the Beckman Coulter Foundation, CBR's mission is education of translational scientists—both graduate students at KGI and undergraduate engineering students at Harvey Mudd College (HMC)—in the development, validation and commercialization of diagnostic biomarkers.

Biomarkers (proteins, nucleic acids, carbohydrates, cells and metabolites) reveal the physiological state of individuals and are used to diagnose disease and stratify patient populations for selection of personalized therapy.

In 2009, Beckman Coulter, Inc. donated a fully-equipped laboratory to CBR, including flow cytometers, DNA sequencers, centrifuges, biosafety hoods, refrigerators, freezers and lab benches, allowing investigation of a wide variety of biomarkers. Designed as an industrial laboratory that follows good laboratory practice guidelines, CBR provides students with experience in a controlled environment similar to that required for regulatory compliance in industry. "We want students to understand how an industrial lab differs from a classical academic lab and experience what it takes to develop and document a biomarker assay that can be commercialized in the global marketplace," said CBR Director Jim Osborne, PhD, the Robert E. Finnigan Professor of Applied Life Sciences.

> "We want students to... experience what it takes to develop and document a biomarker assay that can be commercialized in the global marketplace."

Osborne is joined at the center by Assistant Director Craig Adams, PhD, who also serves as a research associate professor and director of KGI's Team Masters Project (TMP) program.

Under a three-year, $600,000 grant from the National Science Foundation, CBR is partnering with Beckman Coulter, the National Organization for Rare Disorders and Harvey Mudd College to investigate better diagnostic biomarkers for selected rare diseases. The first disease under examination is Hereditary Inclusion Body Myopathy (HIBM).

HIBM is a diverse group of muscle wasting disorders that share similar qualities with sporadic Inclusion Body Myositis and Alzheimer's. Various forms of HIBM are genetically and clinically diverse, with the recessive form (IBM2) as the most common.

In collaboration with Dr. Daniel Darvish, founder of the non-profit organization HIBM Research Group, the Center for Biomarker Research is investigating IBM2. This disease usually affects young adults and often leads to severe disability and confinement to a wheelchair. As with many rare disorders, there is a significant need to develop biomarkers for IBM2 that can be useful in clinical and molecular evaluation of the disease. Such biomarkers will allow CBR to determine the effectiveness of promising therapies currently in early clinical trials that may improve patient well being and lower the cost of care.

There are more than 7,000 known rare diseases, many of which are difficult to diagnose. Working with first-year students in the Master of Bioscience program, CBR has built a database of 104 rare diseases (and counting), said Osborne, former corporate vice president of the Advanced Technology Center for Beckman Coulter, Inc. "Once we get the database populated with 400 to 500 rare diseases, our efforts will escalate," he said. The database contains information on prevalence, symptoms, available therapies, diagnostic biomarkers and molecular pathways, with links to primary literature. Eventually, the database will be accessible to academic and corporate communities to prompt further research to improve outcomes for rare diseases.

BY MARGIE FISHMAN

KECK CHALLENGE

The Contributors Who Made It Possible…

Keck Graduate Institute would not have been able to complete the W. M. Keck Foundation $30 Million Challenge Grant a year ahead of schedule had it not been for the hundreds of generous supporters who contributed to KGI over the past six years. The following are those who helped KGI rise to the occasion and fulfill this remarkable goal.

3 MILLION +

Anonymous Donor

1 MILLION +

Amgen Foundation
Beckman Coulter, Inc.
Robert A. Day
Dennis and Linda Fenton
Robert and Bette Finnigan
H. Victor Hansen Estate
Douglas and Shawn Mackenzie
W. M. Keck Foundation
Jim and Elizabeth Weinberg
WYM Corporation

$500,000 TO $999,999

Investors Life Insurance Corp.
Robert E. and Winifred B. Curry
The Fletcher Jones Foundation
The Kenneth T. and Eileen L. Norris Foundation
Stanford and Betsy Phelps
The Rose Hills Foundation

$250,000 TO $499,999

Beckman Coulter Foundation
Daniel and Annette Bradbury
Anthony and Hallie Caracciolo
Clear Springs Land Company
Marsh Cooper
Gilead Sciences, Inc.
HEDCO Foundation
John and Sandra Leland
Arthur and Jane Riggs
The Annenberg Foundation
The L. K. Whittier Foundation
The Ralph M. Parsons Foundation
The William Randolph Hearst Foundation

$100,000 TO $249,999

American Heart Association
Amgen, Inc.
Amylin Pharmaceuticals, Inc.
Applied Biosystems, Inc.
Arnold and Mabel Beckman Foundation
John D. Baldeschwieler and Marlene Konnar
BioMarin
Bristol-Myers Squibb
Francis and Catherine Burzik
Dow Agrosciences
Henry L. Guenther Foundation
Judith Heyboer
KCI Concepts, Inc.
Thomas Lee
Ronald and Maxine Linde
Michael J. Connell Foundation
PhRMA
Pioneer Hi-Bred International, Inc.
Sigma-Tau Pharmaceuticals, Inc.
Syngenta Corporation
University of Cambridge
Veracyte, Inc.
WKD Foundation
Anonymous Donor

$50,000 TO $99,999

Abbott Laboratories
Allergan, Inc.
Steve and Bonnie Anderson
Astellas USA Foundation
Ernest A. Bates
BioCatalytics
Biogen Idec Foundation
BrainScope
Bristol-Myers Squibb Foundation
Ceres, Inc.
Flora L. Thornton Foundation
Genentech Foundation
Genentech, Inc.
Illumina, Inc.
Invitrogen
Bernard Kury and Lisa Wagner
Life Technologies
Lnx Research
Richard and Deborah McConnell
Navigant Biotechnologies
Northrop Grumman Corporation
Ortho-Clinical Diagnostics
PBS Biotech
Sheldon Schuster
Jack and Jil Stark
The Ann Peppers Foundation
The John Randolph Haynes Foundation
The Seaver Institute
Theravance, Inc.

$25,000 TO $49,999

American Shared Hospital Services
Karen Bernstein and David Flores
BioHelix Corporation
Childrens Hospital Los Angeles
James Cornelius
Jay and Sarah Flatley
Health IQ
Clifford and Judith Miller
Prairie Ventures, LLC.
Simon and Virginia Ramo
Henry and Gayle Riggs
St. Jude Medical, Inc.
Trude Taylor
The Capital Group Companies Charitable Foundation
The United Way of Greater Los Angeles
Robert and Janet Tranquada
Robert and Diana Walker
James and Denise Widergren
Kwang-I and Ellen Yu

$10,000 TO $24,999

Cole-Belin Education Foundation
T. Gregory and Cynthia Dewey
DonorsTrust
Ellis-Leland Family Foundation
John Glanville
Guidant Foundation
Alice Kane
Lester J. Kaplan
James Lower
George Ohrstrom
Donald O'Neal
Orange County Technology
Action Network
Ian Phillips and Bianca Aguiar
Rathmann Family Foundation
Stephen Ryan
Salesforce.com Foundation
Shamrock Holdings of California, Inc.
R. Michael Shanahan
H. Russell Smith
Mark Stevenson
Anne Tenenbaum
The H. Russell Smith Foundation
The Rockefeller Foundation
Murli and Mona Tolaney
UVP, LLC.
Daniel Vapnek

$5,000 TO $9,999

David Baltimore and Alice Huang
James and Jeannie Cregg
Matthew and Kathy Croughan
Weaver Gaines
Adam Gross, MBS '07 and Rebecca Ebin
Ionian Technologies, Inc.
John Kolb
Alan Mendelson
Merck & Co., Inc.
David Pyott
Klari Reis
James Sterling and Shenda Baker

$1,000 TO $4,999

Christoph Adami
Aetna Foundation, Inc.
ALS
Padma Arunachalam, MBS '05
AT&T Foundation
Frank Biondi
Magalen Bryant
Bonnie Busenberg and Thomas Helliwell
Calgene, LLC.
Robert Caragher
Deb and Bulbul Chakravarti
Kun and Grace Chen, Parent '07
Gary Cohen
Joshua Der, MBS '02
Donald and Huong DiRocco, Parent '09
Eli Lilly Foundation
Norman Ellstrand
Catherine Farrell
Sean Gallagher
Thomas and Elizabeth Garrow
Paul and Christina Grint
Elliot and Laura Gross, Parent '07
Ross Grossman
Kenneth Gruys
Barton and Caroline Haynes, Parent '10
Gretchen Hoenecke
Kerry Howell
Dennis Huang
Hutch Humphreys, MBS '03
Peter Barton Hutt
R. Gregory Jenkins
Jewish Community Foundation
of Greater Phoenix
Patricia LaCroix
Graham Lee and Loretta Huang,
Parent '07
Laura Lee-Chin
Life Science Industry Council
Kenneth Livak
Roger Marchetti
James and Helen Melman, Parent '07
Karen Moynihan
Novartis
Sudhanshu Patwardhan, MBS '02
Joseph and Jean Platt
Prudential Foundation
George Raftelis
Recombinant Capital
Mark and Elizabeth Power-Robison
John Rogers
Louis Rosso
Tony Russo
Russo Partners, LLC.
Theodore and Lori Samuels
Schaefer & Company
James Schaeffer
Lowell Sears
Eugene Seno, Parent '02
Brandon and Merlene Singleton
Thomas Smart
Thomas Stagnaro
Alexander Suh
Brian Sullivan
Sun Microsystems, Inc.
Hun and Gemma Sunwoo, Parent '04
Tara Foundation, Inc.
The Raftelis Foundation
The US Charitable Gift Fund
David and Jane Tirrell
Samuel and Justine Tsai, Parent '08
Gino Van Heeke
David Whiteley
Bruce and Susan Worster
Elizabeth Wright
Barry and Barbara Zemel, Parent '04

UNDER $1,000

Suhail Abdullah, MBS '05
Daniel Abramzon, MBS '07
Sanket Acharya, MBS '08
Raunakk Advanie, MBS '10
Abhishek Agrawal, MBS '06
Pratik Ahuja, MBS '10
Vijay and Manju Amin, Parent '07
Ravi Amin, MBS '07
Amylin Pharmaceuticals, Inc. Foundation
Heather Anderson
Samuel Angamah, MBS '09
Faustine Appavoo, MBS '09
Naomi Arana, MBS '08
Shashi Arcot
Cort and Louise Arlien, Parent '10
Sarah Arlien, MBS '10
Robert and Jenna Armstrong
Kathryn Auble, MBS '02
Brian Aufderheide and Elizabeth Callan
Jack Austin, MBS '07
Sandy Auyoung, MBS '02
Pradeep Babu, MBS '07
John Bak
Robert Barger and Angelika Niemz
Diana Bartlett
Amit Barve, MBS '03
Gail Baura
Tilak Baviskar, MBS '05
Mondana Behroozi, MBS '09
Sabih Bekhouche, MBS '05
James Bennett
Randy Berholtz
Kankshit Bheda, MBS '10
Lane Bilbrey, MBS '10
Mark and Sharoni Billik, MBS '04
BIOCOM
Hezekiah Blake, MBS '06
Pierre-Alain Blosse, MBS '10
Jeremy Bolton, MBS '05
Christina Booth
Sanket Borad, MBS '08
Joseph Bordogna
Jennifer Boyd, MBS '08
Sebastien Brasseur, MBS '09
Stephanie Brecheisen, MBS '08
Noel Brinkerhoff and Alyson Mead
James Brommer
Syd and Cathleen Brown
Ambereen Burhanuddin, MBS '06
Daniel Byrd

Continued on page 8.

KECK CHALLENGE

UNDER $1,000 (continued)

C3 Jian, Inc.
Juliette Cagigas
Ryan Carbone, MBS '10
Salvador Carlucci, MBS '04
Grant and Sharon Carman, Parent '11
Anna Carroll, MBS '10
William Casey, MBS '06
Steve and Kornelia Casper
Linda Castle
Sunney Chan
Anders Chan, MBS '09
Philip Chan, Parent '09
Phyllis Chan, MBS '07
Irene Chan
Gavin Chan and Lisa Tsai
Prathuish Chander, MBS '10
Ching-Li Chang, Parent '07
Stephen Chang, MBS '08
Sha Chang
Asia Chang, MBS '07
Daniel Chatham
Tsui-Chern Cheah, MBS '03
Calvin Chen, MBS '07
Li Chen, MBS '07
Ivy Chen, MBS '07
Linda Chen, MBS '05
Vijay Chickarmane
Shu Chien
Hardeep Chiraya, MBS '10
Rajesh Chitta, MBS '08
Victor Chiu, MBS '08
Steven Chiu, MBS '06
Ellen Cho, MBS '08
Anisha Choudhury, MBS '10
Abdul and Farzana Chughtai, Parent '11
Melanie Clairy, MBS '06
Alex Clayton, MBS '08
Asa Cordle, MBS '04
Wade and Sara (Harley) Crow, MBS '03
Justin Custer, MBS '08
Bryan Cutler
Polina Datsova, MBS '06
Krishnalekha Datta, MBS '09
Andrew Daugherty, MBS '09
William and Jill Davis, Parent '11
Maria Deftereos, MBS '03
Xi Deng, MBS '06
Edison and Patricia Der, Parent '02
Kalpana Desai, MBS '06
Harish Dharuri, MBS '02
Eureka Dias, MBS '08
Thomas DiRocco, MBS '09
Marc Doble, MBS '02 and
Jean Doble, MBS '02
Jeffrey Dock, MBS '07
Robert and Tracy Doebler
Elaine Draper
Vincent Eng, MBS '07
Barbara Erwin
Mel and Jane Esselman, Parent '10
Michael Esselman, MBS '10
Randall Farley
Kristen Farrand
Sue Fenske
Cassie Ferguson
Cynthia Ferrini
Brian Feth, MBS '05
David Finegold
Finnigan Living Trust
Kristine Flores, MBS '03
Janelle (Grimes) Fluharty, MBS '06
Deborah Flynn
Eric Forman, MBS '06
Ryan and Amy Frank
Don Freeberg
Erwin and Simha Freund, Parent '07
Nathaniel Freund, MBS '07
Debbie Friedman, Parent '07
Susan Friedman and Stuart Baur
Tim Friedman, MBS '07
David and Dee Fryd, Parent '10
Rachelle Fryd, MBS '10
Yatin Gadgil, MBS '06
Gannett Foundation
Jose Garcia
Anna George, MBS '06
Maria George, MBS '10
Jordan Gerton
Harold and Sandy Goldberg, Parent '10
Rebecca Goldberg, MBS '10
Michael Goldman
Google
Jeffrey Graybill, MBS '02
Matt Grunseth, MBS '08
Nitin Gupta, MBS '05
Delia Gurjala
Lauren Habib-Cutler, MBS '03
David Hadley, MBS '05
Kevin Hambly, MBS '02 and Andria
Hambly, MBS '02
Tian Han, MBS '08
Mary Hasan, MBS '05
Benjamin Haynes, MBS '10
Curt Herberts, MBS '06
Ryan Hershberger and Kerryann
(Shemeley) Hershberger, MBS '07
Alisa Hewitt, MBS '05
AnthonyHewitt
Paula Hewitt, Parent '05
Mike Hoang, MBS '10
Laurence Hoffmann
Betsy Holmes
Justin Hsiao, MBS '07
B.J. Hull
Dimitris Iliopoulos, MBS '06
Sandeep Inamdar, MBS '03
Marla Iyasere, Parent '10
Nicholas Jacenko, MBS '10
Sunitha Jagannathan, MBS '08
Katherine Jernberg
Johnson & Johnson
LeRoy Jordan, MBS '04
Asavari Joshi-Sachdev
Jonathan Jung, MBS '06
Aanchal Kamra, MBS '09
Chen Chen Kan
Joanna Kang, MBS '08
Harsimranjit Kang, MBS '10
Varsha Karandikar, Parent '07
Manjiree Karandikar, MBS '07
Aditya Kelkar, MBS '10
Kathleen Keller, MBS '03
Alexander and Patricia Kelley, Parent '05
Jay and Carrie Kelley, MBS '05
Tyler Kelly, MBS '06
Susan Kibbee, Parent '10
Tyler Kibbee, MBS '10
Terri Kim, MBS '02
Laura Kim-Park, MBS '03
Harry King
Suzanne Kocian, MBS '04
Pavan Kolli, MBS '08
Sarah Koo, MBS '09
Narendra Kossuri, MBS '05
Ira Krinsky and Roberta Weintraub
Don and Laura Kubec
Niket Kulkarni, MBS '03
Sandip Kumar
Danny Kuo, MBS '09
Anita Kurien, MBS '08
Santosh Kuruvilla, MBS '08
Arun Lad, Parent '07
Purvi Lad, MBS '10
Sandeep Lad, MBS '07
Vincent Lam, MBS '10
Jaime Lau, MBS '07
Frank and Wendie Law, Parent '05
Amanda Law, MBS '05
Allen Lee, MBS '09
Carol Lee, Parent '10
Nathan Lee, MBS '07
Stanley Lee, MBS '06
James and Frances Lehman
Emily Leong, MBS '05
Thomas Lester, MBS '04
Lavi and Sarah Lev, Parent '11
Darren Leva, MBS '05
Courtney Libey
Jeff Liepman, MBS '07
Susan Lin, MBS '06
Helen Liu, MBS '07
Melissa Louie, MBS '05
James Lu, MBS '09
Pengfei Luan, MBS '06
Gail Maderis
John and Lillian Maguire
Brenda Mann
Deborah Marshall

Line Martinsen, MBS '02
Matching Gift Program Washington Mutal
Siddhartha Mathur, MBS '05
William Matthews
Barbara McAlister
Anne McLoughlin and Mario Donovan
John McNamara, MBS '07
Christine McNeil
Marcia McNutt
Charles and Susan McWilliams
Jonathan Mein, MBS '04
Rachel Melman, MBS '07
Isaac Middendorf, MBS '08
Adam Miller, MBS '07
Reza Miraghaie
Nida Moosa, MBS '06
Sana Moosa, MBS '10
Zeynab Moradi, MBS '08
Dean Morton
Rachel Mullen, MBS '09
Ali and Mitra Nadim
Raj Nagarajan
Tezus Naidu, MBS '08
Narayan Marketing, Inc.
Thi Nguyen, MBS '08
Ted Nguyen, MBS '08
Tiffany O'Brien, MBS '02
Anthony and Linda O'Keefe
Candace Olfati-Rhoads, MBS '09
Jim and Arzu Osborne
Nicholas Osgood, MBS '05
Charles Pacheco
Vikashni Padmakumar, MBS '10
Sudhir Pardiwala
Kaushal Parikh, MBS '09
Biranchi Patra
Bruce Pavlik and Anna Suer, Parent '09
Benjamin Pavlik, MBS '09
Pearson Education
Ryan Peeler, MBS '07
Rakesh Penmetsa, MBS '06
Nithya Periasamy, MBS '10
Andrew Peters, MBS '06
Tran Pham, MBS '07
Richa Poddar, MBS '05
Ronald and Deborah Pollack, Parent '11
Polytechnic School
Luke Powers, MBS '07
Richard and Terry Preuit
Senthil Purushothaman, MBS '07
Keping Qian
Thomas Quirk, MBS '07
Charles Raasch, Parent '09
William Raasch, MBS '09
James Rankin, MBS '09
Parvin Rastegar, MBS '08
Alpan Raval
Arun Ravi, MBS '07
Animesh and Sumita Ray
Matt Reed and Maryse Renier
Gina Ricci-Monterroso, MBS '06
William Riehl, MBS '02
William and Mary Roberts
Jeffrey Rosenbloom, MBS '09
Mark Rosenbloom, Parent '09
Kristina Roskos, MBS '09
Jacqueline Rosselle, MBS '08
David Rozzell
Noreen Ruane
Mahalkshmi Rudrabhatla
Delyan Rusev, MBS '10
Ravneesh Sachdev, MBS '06
David Sadava
Christopher Salmen, MBS '04 and
Cheryl Salmen, MBS '04
Herbert Sauro
Holly Sawyer, MBS '04
SBC Foundation
Molly Schmid
Kathrin Schrick and Titus Neumann
Briana Schuetz, MBS '08
Leonore Schuetz, Parent '08
David Schultz, Parent '08
Garry Seid, MBS '03
Betsy Sell, Parent '11
Joshua Seno, MBS '02 and
Terri Poon, MBS '02
Luella Sequeira, MBS '07
Kimberly Sevilla, MBS '08
Chitrang Shah
Prachi Shah, MBS '07
Divya Shakti, MBS '06
Louis Shamel, MBS '09
Elmer Shemeley, Parent '07
Jenny Sheng, MBS '09
Westley Sherman
Caitlin Siegel and Keith Hartzler
Nicole Sindy, MBS '09
Jeremy Six, MBS '08
Christine Sjolander
Chadwick and Ella Smith
Hans Smith, MBS '09
Alan and Mary Smith, Parent '09
Charlton Smith, MBS '09
Marcia Soriano, MBS '08
Larry Spiro
Bill and Daisy Spurgin, Parent '08
Danny Spurgin, MBS '08
Tanya Stevens, MBS '09
Thomas Storey, MBS '03
Laura Sturr
Ranjani Sundharam, MBS '09
Kiirsten Suurkask, MBS '04
Sonali Talele, MBS '10
Mercedes Talley
Annie Tam, Parent '07
Eric Tan, MBS '04
Michael Tancer, MBS '06
Yao Tang
Robert Tapella, MBS '07
The David and Lucile Packard Foundation
The San Diego Foundation
The Schwab Fund for Charitable Giving
Brent Thompson, MBS '10
Ilya Tolstorukov and Diana Kazantseva
Sofia Toro
Thomas Tredennick, MBS '10
Sean Tsai, MBS '08
Sumant Turlapati, MBS '05
Rufus and Elaine Turner
Julie Valdes, MBS '09
Satish Vammi, MBS '08
Phyllis Vandeventer, Parent '08
Peter Vandeventer, MBS '08
Raghavan Vasudevan, MBS '09
John and Denise Verbrugge, Parent '10
Matthew Verbrugge, MBS '10
Cyrus Virdeh, MBS '09 and Lindsey Hill
Vidya Viswanathan, MBS '05
Duane and Puanani Wakuta, Parent '10
Chivas Wakuta, MBS '10
Tiffany Wan, MBS '10
Michael Wang, MBS '10
Wenli Wang, MBS '02
Mason and Janet Warner, Parent '08
Chris Warner, MBS '08
Brian Watkins, MBS '08
Steven and Mary Weinstein, Parent '07
Steven Weinstein, MBS Sindy07
Cameron Wellock, MBS '03 and
Sindy Escobar-Alvarez, MBS '02
Wells Fargo Bank
Susan Wessler
Bradley Wigglesworth
Claus Wilke
Joseph and Mary Will, Parent '02
James and Patricia Wilson, Parent '09
Eric Wilson, MBS '09
Christine Wolf, MBS '03
Chester Wong, MBS '07
Jennifer Wong, MBS '08
Meredith and Alexander Wu, MBS '02
Douglas and Fatima Wu, Parent '02
Wyeth
Jeff Xu, MBS '06
Ranga Yarlagadda, MBS '10
Tom and Lois Yunghans, Parent '10
Andrew Yunghans, MBS '10
Mathew Zemel, MBS '04
Liqiang Zhang, MBS '06
Kevin Zitar and Kirsti Zitar, MBS '02

SPOTLIGHT

PPM Program Awards First Degree

YVONNE KLAUE

AFTER SUCCESSFULLY LAUNCHING its new Postdoctoral Professional Masters in Bioscience Management (PPM) program at the beginning of academic year 2009-2010, Keck Graduate Institute proudly awarded its first degree in May to Yvonne Klaue.

The one-year PPM program was designed to provide students with business skills not included in traditional science and engineering PhD programs but which are essential for success in the life sciences industry. Like KGI's flagship Master of Bioscience (MBS) degree, the PPM is an innovative way to better prepare life sciences professionals for senior management positions and entrepreneurial ventures.

"What we have observed—and had validated in our conversations with industry leaders and postdoctoral students themselves—is that there is a significant gap in most postdocs' understanding of the business side of the biotechnology industry, compared with the science they know so well," said KGI President Sheldon M. Schuster, PhD, in introducing the program. "Companies want candidates with not only a strong scientific background, but also a deep understanding of how business operates. A superficial understanding is not enough."

Students in the inaugural class took courses combining traditional training in issues such as competitive strategy and marketing with specialized topics like the role of regulation and medical reimbursement in determining the viability of life science market opportunities. Program fellows interested in launching their own businesses were allowed to enroll in specialized courses in entrepreneurship.

Klaue, a native of East Germany, followed a circuitous route to KGI and the PPM program. Following the reunification of Germany when she was 14, Klaue was able to spend a year as a high school exchange student in southern Kentucky. Once she had completed her undergraduate degree in biology at the University of Kassel in Germany, Klaue went on to pursue a doctorate in molecular biology at the University of East Anglia in Norwich, England. She met and married a fellow graduate student, lived for a time in Mexico, and then moved with her husband to California, where she found a postdoctoral position at the University of California, Irvine.

While at UC Irvine, Klaue's supervisor took a sabbatical, giving her a taste of what it was like to manage a research lab. "I realized that, as an academic, I didn't really have the tools to know how to do that," she says.

After learning about KGI and its new PPM program, Klaue realized, "This was the missing piece I hadn't covered in my previous jobs."

Klaue was exactly the type of student—"bright, articulate, and committed to the life sciences," says Schuster—that KGI had in mind when it instituted the PPM program. Unique in this country, PPM is the route to "exciting, new careers, especially in light of the waning numbers of government-funded research positions," says Schuster.

Klaue is well on her way to realizing her professional goals. She recently accepted a position as research associate in the lab of Angelika Niemz, KGI's Arnold and Mabel Beckman Professor and director of research, working on assay development for point-of-care diagnosis of tuberculosis and herpes simplex virus.

"I'm really excited about joining this project as it allows me to combine my research skills with business applications," says Klaue. "It also gives me more insight into the medical device industry in which I'm very interested."

"We couldn't have asked for a better first graduate of this unique program," says Schuster.

BY CAROL SORGEN

ALUMNI RELATIONS

DARREN LEVA (MBS '05)

MATT GRUNSETH (MBS '08)

Creation of Keck Graduate Institute's new Alumni Association this past year marked a major milestone for KGI, its students and its graduates.

Having graduated 250 students as of May 2009, KGI set about forming the new association and its elected Alumni Board, according to Merlene Singleton, director of alumni relations. "This is a goal we've had since the alumni relations program began, to grow and mature the alumni base and volunteer commitment to a level where they could make a difference to the advancement of KGI," Singleton said.

"It has been very rewarding to see the alumni step up their commitment the past year as volunteers and donors," she continued. "The alumni are a valuable segment of the KGI community that will continue to make an impact on KGI's future."

Since the election of the association's Alumni Board, members have been working diligently to improve communications among all KGI stakeholders, provide networking opportunities for alumni and students and help with KGI fundraising initiatives.

For instance, they hosted a barbecue for graduates the night before the May 2010 commencement to socialize with new graduates and connect with potential Alumni Association members.

Fostering relationships is what the Alumni Association is about.

"We are trying to make sure that everyone is easily connected to the alumni, the Advisory Council and the KGI community as a whole," said Board President Darren Leva (MBS '05).

Leva, a regional sales associate for Althea Technologies in the San Francisco Bay Area, said about 30 alumni and industry representatives attended the Alumni Association's first networking event in the Bay Area in August. The informal event featured two industry executives discussing the impact health care reform will have on the biotech industry and what can be done about it.

Stella Marks, KGI's assistant vice president for academic affairs, has responded quickly and positively to the Alumni Board's suggestions for filling gaps in the curriculum. "Stella's been amazing," Leva said. "She has already started filling those gaps with multiple-week short courses or one-day events."

The Alumni Board also is working on developing stronger connections with KGI's Advisory Council.

"The Advisory Council said they want direct access to our alumni," Leva said. "They want to be able to contact alumni when they're needed for jobs and they want to be contacted as mentors and for job opportunities. They're there to help."

The Alumni Board is creating an accessible map of alumni and KGI Advisory Council members by location, industry and job function to make it easier to contact each other. Leva said the group hopes to have the database completed early in 2011.

The Alumni Board also jumped in to help with the yearend fundraising efforts of alumni for KGI's Annual Fund. As a result, contributions from alumni increased dramatically from 23% to 32%, Leva said.

In addition to Leva, the board's members consist of:

- Academics Chairman Garry Seid (MBS '03) and Assistant Chairman Louie Shamel (MBS '09)
- Alumni and Student Networking Chairman Matt Grunseth (MBS '08) and Assistant Chairman Padma Aruachalam (MBS '05)
- Admissions Chairman Ravneesh Sachdev (MBS '06);
- Secretary Nicole Sindy (MBS '09)

NICOLE SINDY (MBS '09)

CONTRIBUTORS

Annual Fund 2009-2010

Contributions to the Annual Fund during 2009-2010 totaled more than $700,000. We would like to thank all of the donors whose generosity helped further KGI's mission to educate the future leaders of the applied life sciences.

FOUNDERS CIRCLE
($25,000 and above)

Francis and Catherine Burzik
Anthony and Hallie Caracciolo
Marsh Cooper
Cornelius Family Foundation
John and Sandra Leland Foundation
John and Sandra Leland
Rodney Markin
Sidney J. Weinberg Jr. Foundation
The Ralph M. Parsons Foundation
W. M. Keck Foundation
Sidney J. Weinberg

PRESIDENT'S CIRCLE
($10,000 to $24,999)

Steve and Bonnie Anderson Gift Foundation
Ernest Bates
Karen Bernstein and David Flores
Dan and Annette Bradbury
Bristol-Meyers Squibb
Ellis-Leland Family Foundation
Dennis and Linda Fenton
John Baldeschwieler and Marlene Konnar Foundation
Bernard Kury and Lisa Wagner
Murli and Mona Tolaney
Bob and Janet Tranquada
James and Denise Widergren

LEADERSHIP CIRCLE
($5,000 to $9,999)

Allergan Foundation
Beckman Coulter Foundation
Cole-Belin Education Foundation
Fidelity Charitable Gift Fund
M. Ian Phillips
Simon Ramo
Sheldon Schuster
Jack and Jil Stark

PIONEER
($1,000 to $4,999)

Aetna Foundation
Amgen Foundation (Matching Gifts)
Jim Sterling and Shenda Baker
Baltimore Family Fund
Magalen Bryant
Kun and Grace Chen, Parent '07
James and Jean Cregg
Matt and Kathryn Croughan
Donald and Huong DiRocco, Parent '09
Robert and Bette Finnigan
Ross Grossman
Judy Heyboer
Kerry Howell
Alice Huang
Peter Barton Hutt
John Kolb
Ken Livak
Alan Mendelson
Mark Stevenson
Tara Foundation
Bob and Janet Tranquada
Samuel Tsai
US Charitable Gift Fund
Diana Walker
David Whiteley

PATRON
($500 to $999)

Christoph Adami
Melvin and Jane Esselman, Parent '10
Sean Gallagher
Barton and Caroline Haynes, Parent '10
Dennis Huang
Hutch Humphreys, MBS '03
Lavi and Sarah Lev, Parent '11
Roger Marchetti
John B. and Beverly Rogers
Brandon and Merlene Singleton
Thomas Smart
Mercedes Tally
Elizabeth Wright

FELLOW
($250 to $499)

Padma Arunchalam, MBS '05
Robert Caragher
Anders Chan, MBS '09
Joshua Der, MBS '02
Jean Doble, MBS '02
Marc Doble, MBS '02
Tom and Sue Fenske
Tom and Beth Garrow
David Hadley, MBS '05
Jim and Arzu Osborne
Jay Kelley, MBS '05
Suzanne Kocian, MBS '04
Brenda Mann
Tony Russo
Ryan Hershberger and Kerryann (Shemeley) Hershberger, MBS '07
Tom Storey, MBS '03
Bruce Pavlik and Anna Suer, Parent '09
Duane and Puanani Wakuta, Parent '10
Wells Fargo Bank
Bruce and Susan Worster

ASSOCIATE
($100 to $249)

Suhai Abdullah, MBS '05
Vijay Amin, Parent '07
Naomi Arana, MBS '08
Cort and Louise Arlien, Parent '10
Sarah Arlien, MBS '10
Sandy Auyoung, MBS '02
Tilak Baviskar, MBS '05
Sabih Bekhouche, MBS '05
Jeremy Bolton, MBS '05
Joseph Bordogna
Daniel Byrd
Grant and Sharon Carman, Parent '11
Linda Castle
Sunney Chan
Abdul Chughtai
Xi Deng, MBS '06
Edison and Patricia Der, Parent '02
Thomas DiRocco, MBS '09
Brian Feth, MBS '05

David and Dee Fryd, Parent ’10
Jeff Graybill, MBS ’02
Andrea (Tsang) Hambly, MBS ’02
Kevin Hambly, MBS ’02
Tian Han, MBS ’08
Sandeep Inamdar, MBS ’03
Solomon and Marla Iyasere, Parent ’10
Joanna Kang, MBS ’08
Kathleen Keller, MBS ’02
Alexander and Patricia Kelley, Parent ’05
Tyler Kelly, MBS ’06
Susan Kibbee, Parent ’10
Donald and Laura Kubec
James and Fran Lehman
Emily Leong, MBS ’05
Tom Lester, MBS ’04
Darren Leva, MBS ’10
John and Lillian Maguire
Sid Mathur, MBS ’05
John McNamara, MBS ’07
Isaac Middendorf, MBS ’08
Adam Miller, MBS ’07
Anthony and Linda O’Keefe
Ryan Peeler, MBS ’07
Rakesh Penmetsa, MBS ’06
Pioneer Hi-Bred International
Joseph and Jean Platt
Richa Poddar, MBS ’05
Ronald and Deborah Pollack, Parent ’11
Terri Poon, MBS ’02
Betsy Rebar Sell, Parent ’11
Ravneesh Sachdev, MBS ’06
Briana Schuetz, MBS ’08
Garry Seid, MBS ’03
Josh Seno, MBS ’02
Luella Sequiera, MBS ’07
Nicole Sindy, MBS ’09
William and Daisy Spurgin, Parent ’08
Eric Tan, MBS ’04
Michael Tancer, MBS ’06
David and Jane Tirrell
Phyllis Vandeventer, Parent ’08
Vidya Viswanathan, MBS ’05
James and Patricia Wilson, Parent ’09
Alexander Wu, MBS ’02
Tom and Lois Yunghans, Parent ’10
Kevin and Kirsti Zitar, MBS ’02

FRIEND ($1 to $99)

Raunakk Advanie, MBS ’10
Pratik Ahuja, MBS ’10
Robert and Jenna Armstrong
Gail Baura
Kankshit Bheda, MBS ’10
Lane Bilbrey, MBS ’10
Sharoni Billik, MBS ’04
Pierre-Alain Blosse
Noel Brinkerhoff and Alyson Mead
James and Penny Brommer
Ryan Carbone, MBS ’10
Anna Carroll, MBS ’10
Steve Casper
Prathuish Chander, MBS ’10
Dan Chatham
Hardeep Chiraya, MBS ’10
Anisha Choudhury, MBS ’10
Sara Crow, MBS ’03
Lauren Cutler, MBS ’03
Polina Datsova, MBS ’06
William Davis, Parent ’11
Kalpana Desai, MBS ’06
Jeffrey Dock, MBS ’07
Robert and Tracy Doebler
Sindy Escobar-Alvarez, MBS ’02
Michael Esselman,, MBS ’10
Cynthia Ferrini
Erwin and Simha Freund, Parent ’07
Rachelle Fryd, MBS ’10
Maria George, MBS ’10
Rebecca Goldberg, MBS ’10
Matt Grunseth, MBS ’08
Nitin Gupta, MBS ’05
Ben Haynes, MBS ’10
Anthony Hewitt, MBS ’10
Alisa Hewitt, MBS ’05
Paula Hewitt, Parent ’05
Mike Hoang, MBS ’10
Justin Hsiao, MBS ’07
B.J. Hull
Nick Jacenko, MBS ’10
LeRoy Jordan, MBS ’04
Aanchal Kamra, MBS ’09
Harsimranjit Kang, MBS ’10
Aditya Kelkar, MBS ’10
Tyler Kibbee, MBS ’10
Narendra Kossuri, MBS ’05
Purvi Lad, MBS ’10
Vincent Lam, MBS ’10
Amanda Law, MBS ’05
Allen Lee, MBS ’09
Helen Liu, MBS ’07
Rachel Melman, MBS ’07
Sana Moosa, MBS ’10
Thi Nguyen, MBS ’08
Angelika Niemz
Nicholas Osgood, MBS ’05
Vikashni Padmakumar, MBS ’10
Kaushal Parikh, MBS ’09
Laura Park, MBS ’03
Nithya Periasamy, MBS ’10
Richard and Terry Preuit
William and Mary Roberts
Delyan Rusev, MBS ’10
Cheryl (Greene) Salmen, MBS ’04
Christopher Salmen, MBS ’04
Louis Shamel, MBS ’09
Alan and Mary Smith, Parent ’09
Hans Smith, MBS ’09
Laura Sturr
Sonali Talele, MBS ’10
Brent Thompson, MBS ’10
Sofia Toro
Thomas Tredennick, MBS ’10
Sumant Turlapati, MBS ’05
Matthew Verbrugge, MBS ’10
Cyrus Virdeh, MBS ’09
Chivas Wakuta, MBS ’10
Tiffany Wan, MBS ’10
Michael Wang, MBS ’10
Mason and Janet Warner, Parent ’08
Cameron Wellock, MBS ’03
Joseph and Mary Will, Parent ’02
Chester Wong, MBS ’07
Douglas and Fatima Wu, Parent ’02
Sri Yarlagadda, MBS ’10
Andrew Yunghans, MBS ’10
Mathew Zemel, MBS ’04

PROGRAM SPOTLIGHT

Innovative TMP Program Continues Dramatic Growth

Chivas Wakuta (MBS '10) discusses his TMP on presentation day.

SINCE KECK GRADUATE INSTITUTE launched the Team Masters Project (TMP) in 2001, the program has continued to grow both in sophistication and quantity. The number of TMPs each year has more than doubled over the past decade, with six on average in the early years to 14 teams today.

What hasn't changed through the years is the competitive advantage TMPs provide to both students and sponsoring companies.

"The programs at KGI are ideal for developing scientists who have an understanding of business. Through TMP, we have access to a group of bright young creative students who can take a fresh look at a project," says James F. Widergren, a KGI trustee and group vice president, Chemistry and Automation Systems, for Beckman Coulter, which has sponsored more TMPs through the years than any other company.

"The students are typically working on a project we'd like to do, but we don't have available resources we can allocate," he adds. Another benefit is the TMP's value as a recruiting tool. "We have the chance to meet, work with and evaluate students. And there's an altruistic side. We feel it's important to give back to the community and the educational system—particularly to strengthen the life sciences industry, whether these students go on to work for us or someone else."

TMPs are equally valuable to students. Khushnuma Bhesania, president of KGI's student body, notes: "It's unlikely I will ever again have a chance to choose from 14 of the top life sciences companies and say, 'I want to be on this project.' It's a unique opportunity."

According to the program's new director, Craig Adams, TMP assignments are made by considering the student's project preference as well as the company's preference after a review of student resumes. "We try to give both student and company their top choices," said Adams. "Our goal is to make this a winning experience for both student and sponsor. In fact, most students get their first or second choices."

Most of the work on the projects is done at KGI rather than at the corporate location, though students usually travel to the company's site at least once a semester. Students spend approximately one-third of their second year at KGI working on the project, and the other two-thirds in the classroom.

KGI differs from most other institutions with experiential capstone programs in that the TMP is required rather than optional. Additionally, TMPs are longer in duration—many of the others are only a semester long—and fully integrated into the curriculum. "At KGI, one day a week is set aside for TMP, ensuring sufficient time is available to devote to the project," says Diana Bartlett, director of corporate partnerships, who helps run the program.

"The fact that these companies come to KGI and seek support from our students and faculty when they could go to a consulting company instead is really impressive," adds Bhesania. "The problem you're solving for them is a real one. The company is banking on you for that data and those results. It makes it very worthwhile."

BY SUSAN WAMPLER

"It's unlikely I will ever again have a chance to choose from 14 of the top life sciences companies and say, 'I want to be on this project.' It's a unique opportunity."

ADVISORY COUNCIL

Providing industry insight, marketplace feedback, and support for KGI's corporate outreach, the Advisory Council consists of leaders from biotech, pharmaceutical, medical device and bioagricultural companies.

David Adelman
VP, Corporate Strategy
Edwards Lifesciences Inc.

Bob Baltera
CEO
Amira Pharmaceuticals

Randy Berholtz
Vice President,
General Counsel & Secretary
ACON Laboratories

Linda Castle, PhD
Research Director
Pioneer Hi-Bred/
Verdia Research Campus

Ray Cohen
CEO
CardioPolymers

Stephen Daggett, PhD
Director, Product Support R&D
Ortho-Clincal Diagnostics

Catherine Farrell, PhD
US Business Development Executive
Epistem

David Flores
President & CEO
BioCentury

Weaver Gaines
Principal
Florida Research Consortium

Sean Gallagher, PhD
Vice President,
Chief Technology Officer
UVP Incorporated

Chris Garabedian
Vice President, Corporate Strategy
Celgene Corp.

John Gerace
Vice President
& General Manager, PCR Systems
Life Technologies

Paul Grint, MD
Senior VP,
Early Development
and Internal Medicine
Forest Research Institute

Ross Grossman, PhD
Vice President, Human Resources
Regeneron Pharmaceuticals

Kenneth Gruys, PhD
Site Director & Science Fellow
Monsanto Co./Calgene Campus

Richard Hamilton, PhD
President & CEO
Ceres Inc.

Kevin Harley
Vice President, Human Resources
Illumina

Allan Harris
Director, Corporate Strategic Planning
Beckman Coulter

Dennis Huang
VP, Biologics Manufacturing
and Development
Allergan

BJ Hull
Site Director
Gilead Sciences

Mark Jasek
Director, Global Scientific
Market Affairs (Glaucoma)
Alcon Research Ltd.

Matthew Jenusaitis
Executive Director
OCTANe

Tom Klopack
Consultant

Kenneth Livak, PhD
Senior Scientific Fellow
Fluidigm Corp.

Brenda Mann, PhD
Chief Operating Officer
SentrX Animal Care/Bioengineering

Roger Marchetti
Sr. V.P. Human Resources
& Corporate Services
Amylin Pharmaceuticals Inc.

Stephen J. McCormack, PhD
Consultant

Alan M. Mendelson
Founder and General Partner
Axiom Venture Partners

Anthony Page
Managing Director
HealthIQ

Kal Ramnarayan, PhD
Founder, President
& Chief Scientific Officer
Sapient Discovery LLC

John B. Rogers
President& CEO
EcoArray, LLC

J. David Rozzell, PhD
President & CEO
Solidus Biosciences

Tony Russo
Co-founder & CEO
Russo Partners LLC

James Schaeffer, PhD
Executive Director Licensing
& External Research – West Coast
Merck Research Labs

Randy Schatzman, PhD
Chief Executive Officer
Alder Biopharmaceuticals

Steve Shire
Staff Scientist and Group Leader,
Late Stage Pharmaceutical and
Device Development
Genentech

Brian Sullivan
Product Development Team Leader
Icx Agentase

Robert Tenerowicz
Vice President, Operations
XOMA

Gino Van Heeke, PhD
Executive Director
Novartis Institutes for
Biomedical Research

Joseph Villafranca, PhD
Senior Vice President,
Life Sciences-Business Development
Strategic Operating Unit
Tunnell Consulting

David Whiteley
Vice President,
Global Clincial Operations
Amgen, Inc.

James A. Wilkins, PhD
Chief Operating Officer, President
Sensorin

Stephen Zweig, PhD
President & CEO
CliniSense Corp.

CENTER SPOTLIGHT

Center for Rare Disease Therapies Enjoys Multiple Successes

Addi and Cassi Hempel enjoy popsicles during their drug therapy treatment.

ONE OF THE PRIMARY GOALS of KGI's Center for Rare Disease Therapies is to increase the number of orphan drugs being developed to help patients with rare diseases.

That said, 2009-2010 was a banner year for the center.

The center partnered with the U.S. Food and Drug Administration in February to host a two-day workshop for pharmaceutical and biotech companies, academics and patient advocates to learn step-by-step how to file an orphan product designation application.

Eighteen applications were submitted by workshop participants. Over the summer, KGI partnered with the University of Minnesota and the FDA to hold a second workshop in Minneapolis. Another 18 applications were submitted there.

"So, all told, we have increased the expected annual number of orphan drug designation submissions by about 20 percent," said Ian Phillips, PhD, KGI's Norris Professor of Applied Life Sciences and director of the Center for Rare Disease Therapies. "This is a big impact of the center."

> "...we have increased the expected annual number of orphan drug designation submissions by about 20 percent...This is a big impact of the center."

Three applications that were subsequently approved were filed by patient advocates with firsthand knowledge of the heartbreak and frustration that accompanies a rare disease diagnosis.

Chris Hempel's 6-year-old twin daughters, Addi and Cassi, suffer from Niemann Pick Type C, a rare and fatal genetic cholesterol disease that causes severe dementia in children. The girls' physician received approval to treat the girls with a sugar compound called cyclodextrin, which has shown promise in cats and mice that have the same disease. "The compound is used frequently to make cholesterol-free products such as salad dressings and butter and is the main ingredient in Febreeze air freshener," Hempel said. "But when put it into the bloodstream or brain, cyclodextrin could be a potentially lifesaving treatment and help save my girls from progressing into a state of complete dementia."

Dr. Daniel Darvish and his brother, Babak, both suffer from Hereditary Inclusion Body Myopathy or HIBM, a progressive and muscle-wasting rare disorder.

They filed two orphan drug designation applications. One was for ManNAc (N-Acetylneuraminate), a sialic acid biosynthesis pathway intermediate. The simple sugar is made by almost all cells of the body, but the muscles of HIBM patients do not make enough. Studies on mice have shown that ManNAc, when given orally, can slow or stop the disease's progression, Daniel Darvish said.

The second application was for a gene therapy vector to replace the mutant gene and cure the disease.

KGI's Center for Biomarker Research is launching a study in hopes of finding a biomarker for HIBM.

One of the companies that attended the workshop, BPT Pharmaceuticals of Irvine, subsequently received approval for a drug that shows promise in treating pediatric Multiple Sclerosis.

Master of Bioscience student Silviya Meletath ('11) researched and drafted BPT's orphan drug application after attending a student workshop in October and taking a course in the application process. "Silviya recommended we seek the designation and provided invaluable help in preparing the application prior to the KGI workshop. She was critical to developing the successful application," said Lynn Foster, BPT Pharmaceuticals' CEO.

BY ELAINE REGUS

SUPPORTERS

Corporations and Foundations

Corporations and foundations annually support KGI with gifts for special programs or investments in the future to establish a permanent endowment. The following supporters contributed to KGI during FY 2009-2010.

FOUNDATION SUPPORTERS

Aetna Foundation
Annual Fund
Matching Gift for Alan Mendelson

Allergan Foundation
Annual Fund

American Heart Association
American Heart Association
New Investigator Award

Amgen Foundation
Annual Fund
Matching Gifts for Tyler Kelly (MBS '06), Briana Schuetz (MBS '08), Garry Seid (MBS '03), Thomas Storey (MBS '03) and David Whiteley

Ann Peppers Foundation
Ann Peppers Scholarship Endowment

Astellas USA Foundation
Annual Fund

AT&T Foundation
Annual Fund
Matching Gift for Donald and Huong DiRocco (P '09)

Baltimore Family Fund
Annual Fund

Beckman Coulter Foundation
Biomarkers Initiative
Annual Fund
Matching Gift for James Widergren

Bristol-Myers Squibb Foundation
Bristol-Myers Squibb Scholarship

Cole-Belin Education Foundation
Annual Fund

Cornelius Family Foundation
Annual Fund

Ellis-Leland Family Foundation
Annual Fund

Fletcher Jones Foundation
KGI Joint Sciences Initiative

John and Sandra Leland Foundation
Annual Fund

John Baldeschwieler & Marlene Konnar Foundation
Annual Fund

John Randolph Haynes and Dora Haynes Foundation
Haynes Foundation Biotech Cluster

Ralph M. Parsons Foundation
Annual Fund

Rose Hills Foundation
Rose Hills Scholarship

Sidney J. Weinberg Jr. Foundation
Annual Fund
KGI Joint Sciences Initiative
Weinberg Professorship

Steve and Bonnie Anderson Gift Foundation
Annual Fund

Tara Foundation
Annual Fund

US Charitable Gift Fund
Annual Fund

W. M. Keck Foundation
Annual Fund
Matching Grant for Operations and Endowment

CORPORATE SUPPORTERS

Beckman Coulter, Inc.
Gift In-Kind

Bristol-Myers Squibb Company
Annual Fellowship Dinner Sponsor

Fidelity Charitable Gift Fund
Annual Fund

Pioneer Hi-Bred International
Annual Fund
Matching Gift for Linda A. Castle

Sigma Tau Pharmaceuticals
Center for Rare Disease Therapies

Wells Fargo Bank
Annual Fund

ACADEMIC AFFAIRS

New Expertise Broadens Academic Programs

STELLA MARKS

NANCY LAM

> "I believe KGI is unique in terms of both its educational mission and its research, and I am looking forward to bringing people together..."

THE 2009-2010 ACADEMIC YEAR WITNESSED a number of key additions to KGI's esteemed faculty and academic affairs staff.

Stella Marks became assistant vice president for academic affairs and associate dean of faculty. In this position, Marks is responsible for institutional accreditation, and works directly with James D. Sterling, PhD, vice president for academic affairs and dean of faculty, to help ensure KGI's academic programs prepare students to become leaders in the life sciences industry.

Prior to joining KGI, Marks served as assistant dean and chief of staff at UCLA's Anderson School of Management, and executive assistant to the executive vice chancellor and provost at UC Riverside. She earned her JD from the University of Houston Law Center, and her BA in history from Texas Tech University.

In joining the KGI faculty, Assistant Professor Nancy Lam brings expertise in organizational behavior and management that is helping KGI students become effective leaders in the life sciences industry.

Lam holds a PhD in organizational management from New York University's Stern School of Business.

As an instructor, Lam says she strives to challenge students' existing notion of management by using both theoretical and practical knowledge to dissect changing organizational social systems.

Steve Sommer, MD, PhD, president of MEDomics in Azusa, California, is another welcome addition to the KGI faculty as professor of research. Sommer is also leading KGI's new Laboratory of Personalized Genetics.

He was formerly director of the departments of molecular genetics and molecular diagnosis at City of Hope, as well as founder and director of City of Hope's Clinical Molecular Diagnostic Laboratory.

Holder of 13 patents, Sommer conducts research in the genetic predisposition to neuropsychiatric illnesses, specifically autism and schizophrenia, and spontaneous mutagenesis and its relation to cancer and other diseases.

In another significant achievement during 2009-2010, long-time faculty member Angelika Niemz, PhD, was named the Arnold and Mabel Beckman Professor and director of research.

Her current research focuses on the use of nucleic acid testing for the diagnosis of infectious diseases.

"I believe KGI is unique in terms of both its educational mission and its research, and I am looking forward to bringing people together, fostering KGI's growth and development, and strengthening our alliances with others in the life sciences community," says Niemz.

BY CAROL SORGEN

ANGELIKA NIEMZ

STEVE SOMMER

KGI FACULTY

Faculty members come to KGI from well-established academic positions and successful biotechnology companies. They combine impressive university credentials with a keen awareness of the industry's latest developments to bring new ideas and innovations into their classrooms and labs.

FACULTY

Christoph Adami, PhD
Professor: Computational and Evolutionary Biology, Bioinformatics, Artificial Life, Neural Systems

Gail D. Baura, PhD
Professor: Bioengineering, Machine Learning, Medical Devices, Engineering Ethics

Daniel T. Byrd, PhD
Assistant Professor: Strategic Management, Social Network Analysis and Diffusion of Innovations

Steven Casper, PhD
Henry E. Riggs Professor of Management: Marketing Assessment, Biotechnology Clusters, Corporate Governance

James M. Cregg, PhD
Research Professor: Recombinant Proteins, Pichia pastoris, Gene Expression, Peroxisome Biogenesis

Matthew S. Croughan, PhD
George B. and Joy Rathmann Professor, Director of the Amgen Bioprocessing Center: Bioprocessing, Pharmaceutical Manufacturing

T. Gregory Dewey, PhD
Professor: Computational Biology, Molecular Biophysics, Mathematical Modeling of Complex Biological Phenomena

David J. Galas, PhD
Research Professor: Nucleic Acid Analysis Technologies, Genetics and Functional Genomics, Biological Networks

Nancy Lam, PhD
Assistant Professor; Management and Organizational Behavior

Karen L. Moynihan, PhD
Associate Professor: Liposomes, Drug Delivery Systems

Ali Nadim, PhD
Professor: Biodynamics, Microfluidics, Nanotechnology, Electrowetting, Mathematical Modeling

Angelika B. Niemz, PhD
Arnold and Mabel Beckman Professor, Director of Research: Medical Diagnostics, Self-assembly and Molecular Recognition in Biological and Man-made Systems

James C. Osborne, PhD
Industry Professor: Protein Biophysical Chemistry, Protein Structure and Function, Diagnostic Applications, Lab Automation

M. Ian Phillips, PhD
Norris Professor of Applied Life Sciences: Biology of Stem Cells, Gene Regulatory Networks, Rare Diseases

Animesh Ray, PhD
Professor, Director of the PhD Program: Gene Function, Gene Regulatory Networks, DNA Repair, Gene Targeting, DNA Computing, Systems Biology

Molly B. Schmid, PhD
Professor and Entrepreneur-in-Residence: Antimicrobial Drug Discovery, Antibiotics, High Throughput Screening, Microbial Genomics, Animal Models of Infection

Steve Sommer, MD, PhD
Research Professor: Mutation Expert-based Diagnosis and Personalized Medicine, Genetic Predisposition to Neuropsychiatric Illnesses, and Spontaneous Mutagenesis and its Relation to Cancer and Other Diseases

Sheldon M. Schuster, PhD
President and Professor: Mechanisms of Enzyme Action, DNA-Protein Biosensors, Role of Mycoplasm in Cancer

James D. Sterling, PhD
Professor, VP for Academic Affairs and Dean of Faculty: Microfluidics, Microfabrication, Laboratory Automation, Biochips, Biosensors, Biotransport, Systems Modeling, Flow Cytometry

ADJUNCT AND VISITING FACULTY

Phil Barnett, PhD
California Institute of Technology, Jet Propulsion Laboratory (Retired)

Randy Berholtz, JD
Attorney in Private Practice and KGI Advisory Council

Kenneth Ferris
Professor , WPC Accountancy Arizona State University

Larry Grill, PhD
Professor, Pitzer College; Jacobs Visiting Professor, KGI

Gerard Jensen, PhD
Director of Development and Technical Services, Gilead Sciences

Rick Johnston, PhD
Director, Center for Biopharmaceutical Operations, University of California, Berkeley

Brian Keeley, PhD
Professor of Philosophy, Pitzer College

David Margolese, PhD
Venture Advisor

John Milton, MD, PhD
Professor of Biology, William R. Kenan Jr. Professor of Computational Neuroscience, Joint Science Department of the Claremont Colleges

Karol Pessin, JD
Senior Counsel Foley & Lardner LLP

Jay Prag
Clinical Associate Professor & EMP Academic Director Claremont Graduate University

Alan F. Rothfeld, MD
Keck School of Medicine, University of Southern California

David E. Sadava, PhD
Pritzker Family Foundation Professor of Biology, Joint Science Department, The Claremont Colleges, Emeritus

David Vetterlein, PhD
Principal Consultant Alliance BioProcess Consulting

PROFESSORS-AT-LARGE

Michael S. Waterman, PhD
Professor of Biological Sciences, Mathematics, Computer Science, University of Southern California, Computational Biology

Susan R. Wessler, PhD
Distinguished Professor of Genetics, UC Riverside

CLASS GIFT

Class of 2010 Dedicated Gift to Student

EVERY YEAR, KGI'S GRADUATING CLASS presents the institution with a gift to cement their legacy and to reflect on the class itself.

For the class of 2010, their legacy offering consisted of a beech wood table and benches that can seat 12, situated underneath a large tree between buildings 535 and 517.

The gift was dedicated to a classmate, Muthukumar Karthikeyen, or MK as he liked to be called, who passed away during his internship in the summer of 2009.

> "MK was a very nice guy and everyone felt very comfortable around him, so I thought in that way, the class gift is a very fitting tribute to his wonderful character."

MUTHUKUMAR KARTHIKEYEN

"The gift is meant as an outside gathering spot for students who wish to work or relax while on campus and enjoy the wonderful Southern California weather," said Mike Hoang (MBS '10), the 2010 legacy class gift chairman.

"I think it's a great dedication to MK, because you always feel relaxed and comfortable when you're around the bench— even when you're doing work," Hoang said. "MK was a very nice guy and everyone felt very comfortable around him, so I thought in that way, the class gift is a very fitting tribute to his wonderful character."

Also in keeping with tradition, the class of 2010 selected a quote to be displayed on a plaque in the alumni patio.

The quote is, "When we say 'science,' we mean 'business,'" by Jerry Sanders, founder and managing director of San Francisco Science, a technology development group with special expertise in medical devices."We feel that the quote embodies KGI's mission—the creation of an optimal balance between science and business," Hoang said.

2010 LEGACY CLASS GIFT CAMPAIGN DONORS

Mike Hoang, Campaign Chairman

Raunakk Advanie
Pratik Ahuja
Sarah Arlien
Kankshit Bheda
Lane Bilbrey
Perre-Alain Blosse
Ryan Carbone
Anna Carroll
Prathuish Chander
Hardeep Chiraya
Anisha Choudhury
Michael Esselman
Rachelle Fryd
Maria George
Rebecca Goldberg
Ben Haynes
Anthony Hewitt
Nick Jacenko
Harsimranjit Kang
Aditya Kelkar
Tyler Kibbee
Purvi Lad
Vincent Lam
Sana Moosa
Vikashni Padmakumar
Nithya Periasamy
Delyan Rusev
Sonali Talele
Brent Thompson
Thomas Tredennick
Matthew Verbrugge
Chivas Wakuta
Tiffany Wan
Yiping Wang
Sri Yarlagadda
Andrew Yunghans

CONTRIBUTORS

Fellowships and Professorships

The following contributors made gifts to establish endowments, significant fellowships, or special programs that benefited KGI in 2009-2010.

FELLOWSHIP CONTRIBUTORS

Annenberg Foundation
Annenberg Foundation
Endowed Fellowship Fund

The Baltimore Family Fund
Bonnie Busenberg Endowed
Fellowship Fund

Daniel Bradbury
Bradbury Endowed
Fellowship Fund

Robert and Winifred Curry
Robert and Winifred Curry
Endowed Fellowship Fund

Mr. and Mrs. Robert Day
Robert A. Day Endowed
Fellowship Fund

Fletcher Jones Foundation
Fletcher Jones Endowed
Fellowship Fund

Victor H. Hansen
Hansen Endowed Fellowship Fund

William Randolph Hearst Foundation
William Randolph Hearst Foundation
Endowed Fellowship Fund

John and Sandra Leland
John and Sandra Leland Endowed
Fellowship Fund

George H. Mayr Foundation
George H. Mayr Foundation
Endowed Fellowship Fund

The Ann Peppers Foundation
Ann Peppers Foundation
Endowed Fellowship Fund

Pioneer Hi-Bred International, Inc.
Pioneer Hi-Bred
Endowed Fellowship Fund

Hank and Gayle Riggs
Riggs/Carson Endowed
Fellowship Fund

Sidney J. Weinberg Jr. Foundation
Sidney J. Weinberg Jr. Foundation
Endowed Fellowship Matching Challenge

FOUNDER'S CIRCLE FELLOWSHIP CONTRIBUTORS (ANNUAL)

Ernest A. Bates Family Foundation
Ernest A. Bates Family Foundation
Founders Circle Fellowship

Bristol-Myers Squibb Foundation
Bristol-Myers Squibb Foundations
Founders Circle Fellowship

Catherine Burzik
Catherine and Francis Burzik
Founders Circle Fellowship

Tony Caracciolo
Anthony and Hallie Caracciolo
Founders Circle Fellowship

Marsh A. Cooper
Marsh A. Cooper Founders
Circle Fellowship

Robert and Winifred Curry
Robert and Winifred Curry
Founders Circle Fellowship

Dennis and Linda Fenton
Dennis and Linda Fenton
Founders Circle Fellowship

Thomas Lee
Thomas H. Lee
Founders Circle Fellowship

John and Sandra Leland
John and Sandra Leland
Founders Circle Fellowship

Arthur D. Riggs
Riggs City of Hope Fellowship

Rose Hills Foundation
Rose Hills Foundation Science
and Engineering Fellowship

JIM WEINBERG

Sidney J. Weinberg Jr. Foundation Endowed Fellowship Matching Challenge

Sidney J. Weinberg Jr. Professor of Applied Life Sciences

PROFESSORSHIP CONTRIBUTORS

Arnold and Mabel Beckman Foundation
Arnold and Mabel Beckman Professor
of Applied Life Sciences

Dennis and Linda Fenton
George B. and Joy Rathmann Professor

Robert and Bette Finnigan
Robert E. Finnigan Professor of
Applied Life Sciences

Joe and Vi Jacobs
Jacobs Visiting Professor

Doug and Shawn Mackenzie
Robert E. Finnigan Professor of
Applied Life Sciences

The Kenneth T. and
Eileen L. Norris Foundation
Norris Professor of Applied Life Sciences

Stan Phelps
Henry E. Riggs Professor of Management

Sidney J. "Jim" Weinberg Jr.
Sidney J. Weinberg Jr. Professor of
Applied Life Sciences

TRUSTEES

KGI Welcomes 3 New Board Members

Striving to expand the size and broaden the expertise of its Board of Trustees, KGI welcomed three important additions to its board during 2009-2010: Karen Bernstein, Michael A. Friedman and James F. Widergren. The election of these leaders from the fields of communications, medicine and biotechnology increased the board's membership to 25 trustees.

KAREN BERNSTEIN

JAMES F. WIDERGREN

KAREN BERNSTEIN

Co-founder, Chairman and Editor-in-chief
BioCentury
Elected September 2009

Karen Bernstein is the guiding force behind BioCentury, provider of business-oriented information services to a global audience of life science executives and investors from offices in the U.S. and Europe. The company's publications include *BioCentury* and the *Bernstein Report on BioBusiness*®, as well as the translational science journal, *SciBX: Science-Business eXchange*, which it produces in conjunction with Nature Publishing Group. Bernstein, who has been writing and publishing on biotechnology topics since 1987, holds a PhD in political science from Stanford University, and a BA in politics and history from Brandeis University.

JAMES F. WIDERGREN

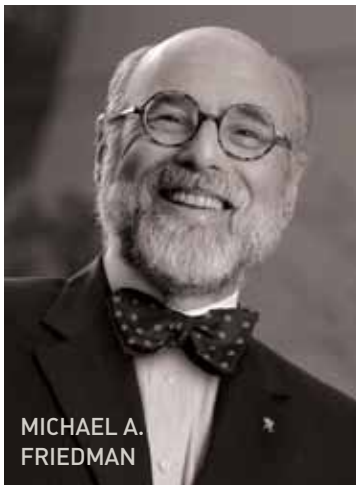
Group Vice President
Chemistry and Automation Systems Group
Beckman Coulter
Elected September 2009

Formerly an active member of KGI's Advisory Council, Widergren joined Beckman Coulter in 1992. He has been responsible for subsidiaries in Japan, China, Singapore, Australia, Mexico, Puerto Rico, Venezuela and Argentina, plus dealer operations throughout these regions since 2006. Widergren also has served as vice president and treasurer of Beckman Coulter. A Registered Professional Mechanical Engineer in California and a past fellow of the Thomas J. Watson Foundation, Widergren holds a Bachelor of Science in engineering, a Master of Engineering from Harvey Mudd College, and an MBA from UCLA. He also has completed the Stanford Executive Program at Stanford University.

MICHAEL A. FRIEDMAN

President and CEO
City of Hope
Elected March 2010

Michael A. Friedman, MD, leads one of the nation's premiere cancer research hospitals, City of Hope, while also directing its Comprehensive Cancer Center. Before joining City of Hope in 2003, Friedman was a senior vice president of research and development, first at Searle and then at Pharmacia Corporation. Following the events of September 11, 2001, he served as chief medical officer for biomedical preparedness at the Pharmaceutical Research and Manufacturers of America. His professional experience includes leadership positions at the Food & Drug Administration and in the Division of Cancer Treatment at the National Cancer Institute, plus nearly a decade at UC San Francisco as an associate professor of medicine directing the Cancer Research Institute.


MICHAEL A. FRIEDMAN

LEADERSHIP

Senior Cabinet and Trustees

SENIOR ADMINISTRATION

Sheldon M. Schuster
President and Professor

James D. Sterling
Vice President for Academic Affairs
and Dean of Faculty;
Sidney J. Weinberg Jr.
Professor of Applied Life Sciences

Robert W. Caragher
Vice President for Finance
and Operations

Kerry Howell
Vice President for Advancement

Elizabeth Wright
Assistant Vice President/Secretary
to the Board of Trustees

Dan Chatham
Dean of Admissions and
Financial Aid

BOARD OF TRUSTEES

Bonnie Anderson
CEO and Co-founder
Veracyte, Inc.

John D. Baldeschwieler, PhD
Professor Emeritus
California Institute of Technology

Ernest A. Bates, MD
Chairman and CEO
American Shared Hospital Services

Karen Bernstein
Chairman & Editor in Chief
BioCentury Publications

Daniel M. Bradbury
President and CEO
Amylin Pharmaceuticals

Catherine M. Burzik
President and CEO
Kinetic Concepts, Inc.

Anthony D. Caracciolo
Senior Vice President
Gilead Sciences, Inc.
Manufacturing & Operations

Marsh A. Cooper
President
M. A. Cooper Consultants Inc.

Robert E. Curry, PhD*
Board Chair and Partner
Curry Henos Partners

Dennis M. Fenton, PhD
Fenton & Associates

Jay Flatley
President and CEO
Illumina, Inc.

Michael A. Friedman, PhD
President and CEO
City of Hope

Judith A. Heyboer
Human Resources Consultant
Former Senior VP
of Human Resources
Genentech, Inc.

Peter Barton Hutt, JD
Senior Counsel
Covington & Burling LLP

Alice T. Kane, JD
General Counsel for
North America
Zurich Financial Services

Bernard E. Kury, JD
Former Vice President
and General Counsel
Guidant Corporation

John D. Leland Jr.
Consultant and Former
Managing Director
Dresdner RCM Global Investors

Arthur D. Riggs, PhD
Director Emeritus
Beckman Research Institute,
City of Hope

Sheldon M. Schuster, PhD
President and Professor
Keck Graduate Institute

Jack L. Stark
Board Vice Chair, President Emeritus
Claremont McKenna College

Mark P. Stevenson
President and COO
LifeTechnologies

Billy Tauzin
Chairman & Manager
Tauzin Strategic Networks

Murli Tolaney
Chairman Emeritus
MWH Global, Inc.

Diana Walker, JD
Retired Partner
O'Melveny & Myers LLP

James F. Widergren
Group Vice President
Beckman Coulter, Inc.
Chemistry & Automation
Systems Group

TRUSTEES EMERITI

Alice S. Huang, PhD
Senior Faculty Associate in Biology
California Institute of Technology

Howard B. Keck, Jr.
President
Brighton Distributing Co.

Richard L. McConnell
Former President
Pioneer Hi-Bred International, Inc.

Clifford A. Miller
Managing Director
Shamrock Holdings

Harlyne J. Norris
Trustee
Kenneth T. and
Eileen L. Norris Foundation

Stanford N. Phelps
Chairman
S. N. Phelps & Co. and
Clear Springs Land Co.

William H. Rastetter
Chairman, Board of Directors
Illumina, Inc.

Henry E. Riggs
President Emeritus
Keck Graduate Institute

Louis T. Rosso
Chairman Emeritus
Beckman Coulter Inc.

Stephen J. Ryan, MD
President
Doheny Eye Institute

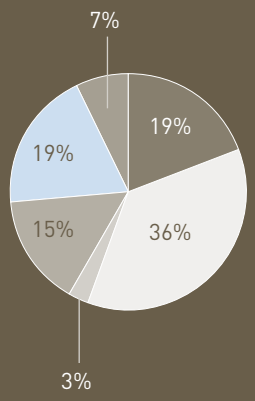
Robert E. Tranquada, MD
Emeritus Professor of Medicine
& Public Policy
University of Southern California

Sidney J. Weinberg, Jr
Board Chair Emeritus,
Senior Director
The Goldman Sachs Group, Inc.

FINANCIAL STATEMENTS

STATEMENTS OF FINANCIAL POSITION	JUNE 30, 2010	JUNE 30, 2009
ASSETS		
Cash and cash equivalents	$139,770	$112,169
Accounts receivable	514,745	595,305
Prepaid expenses and deposits	388,796	412,706
Contributions receivable	5,623,383	8,239,428
Funds held in trust for others	126,682	98,287
Investments	40,225,682	37,783,440
Building investment, net	5,358,604	5,554,114
Buildings and equipment, net	12,403,428	12,334,842
Total assets	**$64,781,090**	**$65,130,291**
LIABILITIES		
Accounts payable and accrued liabilities	$1,319,719	$1,436,259
Deposits and deferred revenues	124,390	111,486
Bonds payable and capital lease obligations	9,124,000	9,187,515
Total liabilities	10,568,109	10,735,260
NET ASSETS		
Unrestricted	19,571,479	19,679,491
Temporarily restricted	5,850,054	6,085,920
Permanently restricted	28,791,448	28,629,620
Total net assets	54,212,981	54,395,031
Total liabilities and net assets	**$64,781,090**	**$65,130,291**

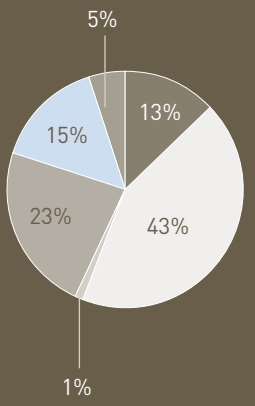
SOURCE OF FUNDS
6/30/10



- Tuition & fees - 19%
- Private gifts & grants - 36%
- Private contracts - 3%
- Federal grants & contracts - 15%
- Investment income - 19%
- Other revenues - 7%

STATEMENTS OF ACTIVITIES		
REVENUES		
Tuition and fees (net of tuition discount)	$2,011,300	$1,611,456
Private gifts and grants	3,821,383	5,447,749
Private contracts	365,976	126,377
Federal grants and contracts	1,639,057	2,917,366
Investment income	1,995,296	1,864,156
Other revenues	769,980	616,817
Total revenues	10,602,992	12,583,921
EXPENSES		
Instruction	3,435,217	3,369,833
Research	2,903,457	3,824,558
Academic support	1,655,897	1,584,199
Student services	1,377,337	1,243,212
Institutional support	4,084,735	4,090,852
Total expenses	13,456,643	14,112,654
Deficiencies of revenues over expenses	**(2,853,651)**	**(1,528,733)**
OTHER CHANGES IN NET ASSETS		
Actuarial adjustment	5,479	(5,453)
Adjustments to contributions receivable	(10,000)	(30,000)
Realized and unrealized investment gains (losses)	2,711,700	(5,116,346)
Gain (loss) on disposal of buildings and equipment	(35,578)	10,284,649
Total other changes in net assets	2,671,601	5,132,850
NET ASSETS - BEGINNING OF YEAR	54,395,031	50,790,914
NET ASSETS - END OF YEAR	**$54,212,981**	**$54,395,031**

SOURCE OF FUNDS
6/30/09



- Tuition & fees - 13%
- Private gifts & grants - 43%
- Private contracts - 1%
- Federal grants & contracts - 23%
- Investment income - 15%
- Other revenues - 5%

KECK GRADUATE INSTITUTE
of Applied Life Sciences

535 Watson Drive
Claremont, CA 91711
909.607.7855
www.kgi.edu