



EXPANDING OUR IMPACT
KECK GRADUATE INSTITUTE
2016 ANNUAL REPORT

Introduction

This world is full of problems that just can't wait.

At Keck Graduate Institute, neither can we.

KGI students are taught and encouraged to solve real-world problems from day one. Dedicated, research-active faculty members work with students in an intimate setting to tackle problems by asking “how?”

How can we fix it?
How can we create it?
How can we eradicate it?
How can we invent it?
How can we prevent it?
How can we control it?

From creatively engineered medical devices to compassionate cures for the world's rarest diseases, there are a thousand different answers to the question “how?” But the answers all have a common denominator:

You.

When a student enters KGI, she or he is ready to discover “how” because you provided tools to help do so. Perhaps you supported a pharmacy student with a scholarship. Or maybe your annual fund gift purchased lab equipment. Perhaps your unrestricted support kept the lights on late one night in a lab, allowing a bright young student to imagine a smarter way to monitor drug interactions. Or treat liver disease. Or modify a medical device.

You did that.

Thank you.



You're in time for the next stretch of this remarkable journey of scientific research and discovery.

KGI's founding premise—to advance the notion that educational programs and research can bridge theory and practice, translating the potential of life science into tangible achievements—has given rise to countless discoveries and outcomes. That is a start we can be proud of.

If you're a current KGI supporter, thank you. We are proud of our progress and grateful for how far this institution has come.

If you're new to the KGI community, welcome. We're about to do even more great things.

Thank you for helping the best and brightest minds—the minds of KGI students—answer the question: “How?”

Follow KGI and its students on social media:



• [KGI.edu/Facebook](https://www.facebook.com/KGI.edu)



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[KGI.edu](https://www.youtube.com/KGI.edu)



[KGI.edu](https://www.instagram.com/KGI.edu)



KGI's Impact



At Keck Graduate Institute (KGI), we are passionate about student success. By every measure, our institution is designed to inspire, motivate, cultivate, and encourage students to become leaders in their fields. Our job is to offer students opportunities—whether on a local or international scale—to gain a wider perspective and understand the work they do can have positive and lasting effects.

The KGI impact is something we take seriously, and as we move towards our 20-year anniversary, it is important that we reflect on our legacy while focusing on the future. Over the past two decades, KGI has undergone immense growth, yet our mission has remained the same: to enrich society with breakthrough approaches to education and translational research in the life sciences. Innovation has also been at the forefront of KGI's values and is evident in the scope of work our students, alumni, faculty, staff, corporate partners, and leadership undertake. While we are proud the KGI network has expanded internationally, we remain a powerful and tightknit community. It is this sense of community that has provided a supportive environment in which KGI students and alumni actively work at the intersection of science and business to bring about solutions to problems faced by patients and industry in the healthcare and biotechnology industries.

We have students from all over the world who come to KGI to learn about the life sciences industry. At their cores, both the School of Applied Life Sciences and the School of Pharmacy provide our students with the tools necessary for dynamic careers.

In the past year, KGI has experienced major growth. With just over 500 graduate students enrolled, our focus has remained clear: to ensure our students learn how to navigate careers that may demand flexibility and adaptability. We do this by providing a curriculum that is innovative, relevant, and rigorous.

We offer programs in both our School of Applied Life Sciences and our School of Pharmacy that are designed to provide meaningful industry experience, networking opportunities, and translational, hands-on skills that allow for a seamless transition to industry and clinical practice.

As such, our full array of academic programs include: Master of Bioscience, Master of Engineering in Biopharmaceutical Processing, Postdoctoral Professional Master's, Postbaccalaureate Premedical Certificate, PhD in Applied Life Sciences, CAST PhD, Doctor of Pharmacy, Certificate in Bioscience Management, Biocon Academy (Bangalore, India), and Summer Courses + Research Experiences.

KGI is a reflection of our founder's vision to create an institution where talented and qualified individuals are trained to be future leaders in the bioscience industry. Today, nearly two decades later, KGI remains the only professional graduate school dedicated to education and research in the life sciences. Our commitment to scientific innovation capable of strengthening communities and improving lives has been a driving force in our growth and progress. As KGI continues to move forward, we will continue to cultivate an environment that reflects our core values: Entrepreneurial and Reflective; Ethical and Responsible; Collaborative and Independent; Interdisciplinary and Applied.

We have come a long way since our founding in 1997 and are excited to see what the future brings to our institution as a whole. We envision a future that honors KGI's legacy while allowing meaningful progress.

Sheldon M. Schuster, PhD
KGI President

Robert E. Curry, PhD
Chairman of the Board of Trustees

Student Impact

Making an Impact in Communities

At KGI, we are passionate about ensuring our students have the necessary tools to be leaders in their fields, to feel confident and competent, to take on projects that are interdisciplinary, and, most important, to be poised to give back to their communities. By example, we teach our students that reciprocity is important and encourage them to participate in social and professional clubs committed to improving the lives of others. Our students and alumni are active in their communities, working to enhance the human experience and make a difference with the values they learned through their KGI education.

KGI Faculty and Students Mentor High School Students



KGI Students Mark Krstyen, Brandy Fugate, Carl Decker, and Stephanie Leguizamon, along with KGI faculty member, Michelle Wells, attend Esperanza High School's Career Day.

A cadre of KGI faculty and students spent time helping local high school students learn more about science and possible careers in the field for the school's Career Day.

Initiated by Stephanie Leguizamon, MBS '17, the visit to her alma mater, Esperanza High, was a chance to give back to her community. Each KGI representative gave three 30-minute presentations. Topics included stem cell research and genome editing, cancer research, and clinical and regulatory affairs: legal drug pushing and working with the FDA. The KGI group also stressed the importance of continuing education past high school.

Stephanie said she wanted to show high school students they are capable of achieving anything they want and that they can change the world with the power of their mind. She also wanted to introduce high school students to the amazing world of cellular and molecular biology, specifically stem cell research and gene editing. When Stephanie was in high school, she had no idea that type of research existed and wanted to open students' eyes to this new opportunity.

Stephanie elaborated on why she was generous with her time: "I believe it is important to give back because you never know the impact you can have on someone's life. It is especially important to give back to the younger generation by encouraging them to believe in themselves. Teenagers are so easily influenced. By taking a few hours out of my day, I was able to be a positive influence in their lives."

Community events like these are vital to building the KGI community. For Stephanie, it was an info session at a local college where she first heard about KGI.

PhD Student Brings Science to Mexico and Colombia

KGI PhD student Paola Hernandez has been bringing science education to students in Mexico and Colombia as an instructor for Clubes de Ciencia (science clubs), a non-profit organization that brings a series of intensive and project-oriented science workshops aimed at getting high school and undergraduate students interested in pursuing a career in science.

Her involvement in Colombia is particularly important, as the country's history has been turbulent. Hernandez explained that one of things she enjoyed most while working with younger students in Colombia was seeing how excited they were to participate in a workshop, which can be difficult to access. In some cases, the organization has received up to 1,000 applications for the 15 to 18 spots available in each class. Realizing not everyone has access to science-based education, the organization opts to forego major cities. Instead, they go to remote locations where these resources aren't common; Bogota and Medellin are examples.

“KGI taught me how to write, network, and think beyond the traditional world of science. Now I’m communicating with other scientists to develop and run these workshops.”

PhD Student Paola Hernandez MBS '12

Being an instructor for Clubes de Ciencia has greatly impacted Hernandez's life. Her involvement with students has allowed her to serve as a mentor, helping them with applications to scholarships and internships. She also helps students learn to network and to open their eyes to professional opportunities.

Hernandez noted that KGI has given her the tools to understand and put science, business, and debate in context. She gave credit to the PhD program, which has opened the doors to connect with other people throughout the globe.

“Whatever I do, I want to make a difference. You can make an impact right now with what you already know. Volunteering can be the key. Take opportunities when they come. You never know what will come your way and what will open your life to things you never considered. Also, be culturally sensitive, because that is the route to success.”

Taking Health Education to the Underserved and Homeless

To celebrate the Thanksgiving season by giving back to the local community, PharmD students offered free health education at a one-day event, Eat and Be Well, open to the underserved of San Bernardino County.

Second-year students (P-2s) took the lead in facilitating sessions on hypertension, diabetes (in both English and Spanish), and how to stop smoking. First-years (P-1s) also participated in the sessions and interacted with attendees.

The event proved to be an excellent way for P-1 and P-2s to share their knowledge, for the local community to learn from future healthcare providers, and for all to express gratitude for the gift and power of education.



School of Pharmacy students support their community by participating in Eat and BE Well, an event designed to provide health education to those in need.

Faculty Impact

Making an Impact Through Research

KGI is home to world-class faculty whose expertise in subjects such as bioengineering, applied molecular and cellular biology, bioscience business, pharmacology, bioprocessing, and gene therapy have led to real-world solutions and cutting-edge research aimed at improving the human condition.

Dedicated to KGI's model of graduate education and interdisciplinary, translational research, many faculty have come to KGI from well-established academic positions and successful biotechnology companies, combining academic credentials with a keen awareness of the industry's latest developments to bring new ideas and innovation into their classrooms and labs.

Whether they are looking at specific diseases, advancing methods for the targeting and delivery of drugs, emphasizing vaccines and prevention, or innovating in the area of pharmacology, KGI faculty are consistently and actively working to give back—on both a local and global scale.



School of Pharmacy faculty Dr. Rachita Sumbria.

Pharmacy Professor Works to Advance Research for Alzheimer's Disease

Rachita Sumbria, PhD was awarded the 2015 New Investigator Research Grant from the Alzheimer's Association. This competitive grant provides important

funding to support her research on developing a brain penetrating TNF-alpha inhibitor (TNFI) for Alzheimer's disease. Overall, Dr. Sumbria hopes this work will contribute to finding a cure for Alzheimer's disease.

Specifically, Dr. Sumbria's research will focus on getting a TNF-alpha inhibitor into the brain noninvasively via the molecular Trojan Horse technology (MTH), which was introduced to her during her postdoctoral training at UCLA, under the mentorship of Dr. William Pardridge. This MTH technology transports the TNFI into the brain, essentially acting as a ferry for the drug (e.g., TNFI) and allowing it to get past the BBB.

Dr. Sumbria carried out research on BBB-penetrating TNFIs as a postdoc at UCLA. While there she focused on studying the therapeutic potential of a BBB-penetrating TNFI in mouse models of Parkinson's disease and ischemic stroke. In an attempt to move this research

further, Dr. Sumbria stated the funds received will be used to study the effect of this BBB-penetrating TNFI in Alzheimer's disease and determine if therapeutic benefits can be achieved.

“Hopefully this research will underscore the importance of the blood-brain barrier as a bottleneck to brain drug delivery, especially for Alzheimer's. I'm excited to continue this work at KGI.”

Dr. Rachita Sumbria

Helping Farmers Across the World with Low-Cost Plant-Based Vaccines



Dr. Larry Grill poses with students and staff while working in Botswana.

Making life easier for farmers in Botswana is important to Larry Grill, PhD, dean of research at KGI. There are approximately 500,000,000 smallholder farmers in the developing countries whose output feed approximately 2 billion people. Due to the often harsh conditions faced when smallholder farmers fail, people starve. With livestock playing such a vital role in farm success, it is important that the animals remain healthy. Inexpensive vaccines are critical for livestock farmers to create herd

immunity and stop the spread of damaging diseases such as Lumpy Skin Disease, Rift Valley Fever, and East Coast Fever. Lumpy Skin Disease causes a chronic debility in cattle that leads to serious nutritional and economic losses and has decimated cattle in Botswana. Rift Valley Fever causes a chronic debility in cattle and other animals, and East Coast Fever kills about 1.2 million cattle per year in Africa. The team is also working on low-cost vaccines for rabies and anthrax.

Understanding the need for a cost-effective solution, Dr. Grill has been in collaboration with the University of Botswana, the Ferre/Marquet Vaccine Research Center at Pitzer College, Botswana Vaccine Institute, Kenya’s International Livestock Research Institute, and the Grill and Martchenko labs at KGI, to develop low-cost vaccines for animal illnesses previously mentioned. The first plant-produced vaccine for lumpy skin disease is currently in clinical trials. In time, it is hoped the vaccines will be produced in Botswana using plant-produced vaccines and large-scale growing with LED Lighting.

Dr. Grill is also one of two founders who started Large Scale Biology Corporation (LSBC) a publicly held company that made therapeutic drugs, pharmaceuticals, and vaccines using a unique plant viral gene-expression technology. Grill has published over 25 scientific papers and is an inventor on more than 30 issued U.S. and international patents. He is the Dean of Research at KGI and also teaches at the graduate and undergraduate (through the Keck Science Department of The Claremont Colleges) levels.



KGI School of Pharmacy faculty members
Dr. Sally Huston and Dr. David Ha

Pharmacy Professors Improving Community Pharmacy Immunization Programs

KGI School of Pharmacy professors Sally Huston and David

Ha are part of a team that has received a research grant from the Merck Investigator Studies Program for their work in sustainable enhancements for community pharmacy immunization programs.

Through this funding, Huston and Ha will investigate methods of enhancing the delivery of the pneumococcal disease and herpes zoster (shingles) vaccines in community pharmacies through immunization-focused education and expert feedback, using a randomized intervention-control design.

Overall, the purpose of training is to ensure each

participating community pharmacy has the practical tools needed to identify patients who could benefit from the pneumococcal or shingles vaccines and to provide useful and meaningful information to them.

Associate Professor of Administrative Sciences, Huston explained the importance of the study: “Many people still fail to take advantage of immunizations against pneumococcal disease and herpes zoster [shingles]. Pneumococcal disease can result in significant morbidity and, potentially, early death. Adults aged 60 years and older who have had chicken pox are at high risk of developing shingles—a painful disease that can last a year or longer. Pharmacists are among the most widely accessible healthcare providers. With pharmacists now eligible to administer immunizations, they can help people overcome many of the barriers they face in obtaining this vital protection.”

While the study targets community pharmacy interactions with patients, it is designed to be larger in scope. The team hopes not only to increase the current level of pharmacy-based immunization delivery, but also to foster practice change to sustain the intervention effect.

Discussing the project, Assistant Professor of Clinical Sciences Ha said: “As a practicing clinical faculty in infectious disease, my experience with vaccination is the result of lack of vaccination. One of the most frustrating things to witness is patients being hospitalized and sometimes succumbing to vaccine-preventable illnesses, and this is not an uncommon event. This is why I am interested in increasing vaccination rates as much as possible, especially in an area of significant healthcare need, i.e., the Inland Empire [San Bernardino/Riverside counties] as well as Los Angeles County.”

Dr. Sally Huston is the California sub-contract principle investigator and project coordinator. Dr. David Ha is the clinical coordinator for California. The overall principle investigator is Salisa Westrick, PhD, and the Alabama coordinator is Dr. Kimberly Garza.

“We are free to innovate. We have ultimate flexibility to experiment and to invent ourselves.”

Henry E. Riggs, KGI Founding President

Making an Impact In Learning

KGI prides itself in providing an education that is relevant, innovative, and challenging. Every student who walks through the doors is given the opportunity to immerse themselves in industry-specific projects, meet key industry professionals, and continually build on a skill set that includes networking, project management, and collaboration. By the time students leave KGI, they are poised to become leaders in their fields and to contribute to their industry, with reciprocity as a core value.

KGI's innovative teaching methods, which include the flipped classroom approach and experiential learning, are fundamental to our students' success. The efforts to turn the dynamics of learning from linear to immersive are key to ensuring true learning takes place. Whether students work on creating a new medical device or are engrossed in a TMP, learning is never one-sided and, instead, is collaborative, multifaceted, and interactive.

Collaborative Learning: Team Master's Project

The Team Master's Project (TMP) is the capstone activity for students in the Master of Bioscience (MBS) and the Postdoctoral Professional Master of Bioscience Management (PPM) degree programs at KGI. In accordance with KGI's mission of translating the potential of the life sciences into practice, the TMP offers a rigorous and experiential learning opportunity that immerses students in the type of work many will pursue after graduation. TMPs are supported by interdisciplinary teams of three to six students who work with sponsoring companies to address real-world company objectives.

Replacing the traditional master's thesis work found in standard programs, these projects give students the opportunity to apply their marketing, business, financial, and science training to state-of-the-art corporate challenges. Importantly, our teams are advised by both KGI faculty and expert industrial liaisons to assure that academic rigor is paired with pragmatic focus. Our typical TMP team is

composed of MBS, PPM, and senior undergraduate students from The Claremont Colleges (Harvey Mudd, Pitzer, Claremont McKenna, and Scripps), resulting in a rich and diverse set of skills, backgrounds, and expertise.

The Science of Learning

Stephen M. Kosslyn is the founding dean of the Minerva Schools at KGI. There, he leads the School of Arts and Sciences and has served an integral role in defining Minerva's pedagogic philosophy. Dr. Kosslyn came to Minerva from Stanford University, where he was director of the Center for Advanced Study in Behavioral Sciences, the world's preeminent institution in the field. Prior to Stanford, Dr. Kosslyn spent 30 years at Harvard University in a variety of positions, including dean of social sciences. His most recent Top Brain, Bottom Brain book (with G.W. Miller) posits a new theory of cognitive modes—different thinking styles—that affect how we each approach the world and our interactions with others. It is this commitment to understanding and adapting to the changing dynamics of learning that distinguishes both KGI and Minerva from more traditional models.

“Lectures are a great way to teach but a terrible way to learn.”

**Dr. Stephen Kosslyn,
Founding Dean Minerva Schools at KGI**



Kosslyn on Learning: Top Ten Principles

1. Depth of processing. The mere act of “thinking it through” enhances subsequent memory. The more “deeply” one is forced to analyze or consider information, the more likely it is to be recalled.

2. Breadth of processing. Making connections to information already stored in memory enhances learning. Focusing on how information relates at a deep structural level to other information enhances memory.

3. Chunking. People can hold in working memory 3 or 4 “chunks” (organized units), but each of these chunks can in turn contain 3 or 4 chunks.

4. Deliberate practice. Provide feedback, and lead the learner to pay attention to mistakes and use them to correct performance.

5. Cumulative information. Ensure that foundational material is presented first, providing a “backbone” for learning additional information. There is no “paradox of the expert.”

6. Appropriate examples. Abstract concepts can only be learned in concrete contexts.

7. Principles, not rote. Students must understand the principles that underlie examples.

8. Staggered practice. Vary the time and context of learning. “Far transfer” is best accomplished when material is associated with very different contexts.

9. Emotion. Information associated with strong emotion generally is learned better than information that has neutral valence.

10. Generation effect. Simply having to recall information can improve memory; hence, explaining or answering tests enhances learning.

Experiential Learning: School of Pharmacy

KGI's School of Pharmacy (SOP) is dedicated to the education of innovative pharmacists who will serve the needs of individual patients, the healthcare system, and the bioscience industry. Our program emphasizes interprofessional collaboration; systematic problem solving; the safe, efficient, and ethical use of technology and biotechnology; and personalized patient care. Fundamental to SOP is the concept that students must “do” to learn. As such, embedded in the Doctor of Pharmacy (PharmD) program are several Experiential Learning requirements and opportunities that take students out of the traditional classroom and into real-life practice settings.

Knowledge to Nourish Your Wellness (KNOW) Program

This spring semester, PharmD students were paired with a volunteer resident of Mt. San Antonio Gardens (Life Care community) and Pilgrim Place (senior community in Claremont, CA). They met every other week to establish a partnership focused on the resident's needs. Under the supervision of KGI pharmacist faculty, student pharmacists provided ongoing services to Mt. San Antonio Gardens and Pilgrim Place residents to assure their medication regimen was safe and effective. They offered education on immunizations, general wellness, and proper medication storage and disposal. Students also produced a medication action plan for the residents that included: list of medications, indication, dosing schedule, monitoring parameters, side effects, and questions to the care provider.



Industry Impact/Collaboration

Making an Impact In Industry

The biotechnology and biopharmaceutical industries rely on a rich pipeline of high-caliber scientists and engineers who can become part of the leadership team at every level of the organization. KGI understands that industry-based partnerships are as important as they have ever been, allowing for a model of reciprocity between student, school, and industry. It is this give-and-take approach that has allowed so many KGI students and alumni to enter into the workforce with relevant, real-world experience and meaningful network connections.

Amgen is one of KGI's important industry connections. We have several alumni and board members who work there, including involvement in summer internships and Team Master's Projects (TMP). One of KGI's research centers, the Amgen Bioprocessing Center (ABC), was created in 2004 with a generous gift from the Amgen Foundation. Building on the idea that education and industry can function in tandem, the ABC was created to bring together infrastructure, resources, and experts from industry and academia and to bridge the gap between traditional degree programs in life sciences and engineering.



Today, ABC is a transformative education ecosystem with interconnected teaching, training, and research programs in full partnership with the biopharmaceutical industry, in large measure thanks to the tremendous philanthropy of Amgen. The generous gift from the Amgen Foundation has been felt across KGI by students, faculty, and alumni alike. Since the gift's inception, the number of graduates in bioprocessing has grown rapidly.

Amgen and KGI: An Overview Summer Internships: 35 (2013 through 2016)

Team Masters Projects (TMP's): 7

- 2001 (2)
- 2006 (2)
- 2007 (1)*
- 2014 (2)

*one of the 2006 TMP's was a 2 year-project

Alumni Employees (Past & Present): 68

- Amgen (51)
- Health IQ (8)
- LEK Consulting (9)

Board of Trustees Affiliations: 4

- Robert Baltera, Jr.
- Frank Biondi, Jr.
- Dennis Fenton
- Martha Vincent
- Madhu Balachandran

KGI Alumni Titles at Amgen:

Director Research Operations
Director Strategic Planning & Operations
Global Operations Senior Manager
Preclinical Senior Manager
Senior Engineer
Licensing Senior Manager
Regulatory Affairs Manager
Senior Associate
Senior Associate Quality Control
Business Analysis & Information Senior Manager
Supply Chain Senior Manager
Alliance Management Senior Manager
Regulatory Affairs Manager
Senior Specialist Quality Systems
Strategic Resource Planning Manager
Strategic Planning & Operations Manager
Business Analyst
Risk Management Manager
Supply Chain Manager
Supply Chain Manager
Director Regulatory Affairs
CDM Systems Manager
GRAAS Operations Manager
Process Engineer/Scientist II
Supply Chain Manager
Clinical Application & Analytical Services Manager
Business Analysis and Information Manager
Supply Chain Manager
Business Analysis & Information Senior Manager

“A KGI education is unique. No other institution provides the cross functional executive training that is tailored exclusively to the bioscience industry.”

Jean Doble '02



“It is critical to continually learn, and translate innovation into applications that improve human life. The education I received at KGI prepared me for this fast-paced and ever-changing environment. At KGI, I learned a way of thinking—a scientific way of thinking that I use in my everyday life.”

Marc Doble '02



Watita Tamavimok Explains How She Bridged the Gap Between KGI and Industry

As part of the KGI curriculum, first-year MBS students are required to find an internship position within

industry. This is where Watita began her connection with Amgen. Her summer internship at Amgen was memorable. Watita praised her Amgen manager for the high level of communication and networking and her manager's support in exploring various departments at Amgen. She was able to identify how valuable mentorships can be and appreciated the opportunity to speak with senior leaders at Amgen. In October of 2015, before graduating from KGI, Watita was hired as a full-time employee at Amgen. She began her new career with the Amgen family in June 2016.

Why did you decide to attend KGI?

After working for a few years after college, I realized that having knowledge in business is very important. KGI allowed me to still pursue my passion in science and learn the business aspects that will help me in the science field.

What was your major at KGI?

Pharmaceutical Discovery and Development.

Why did you want to work for Amgen?

Amgen allows their employees to explore their interests while helping them to excel and grow as professionals within the company. The culture is filled with passionate and intelligent people who are happy to help young professionals with their careers.

What was the Amgen interview process like?

I got an internship in the R&D department by going through Amgen's career portal. During my internship, I networked with Amgen employees (including KGI alums) in many departments. I expressed my interest in the Operations Department during my internship and I got a verbal job offer in October.

What is your new title at Amgen, and what will you be working on? *My new title is Senior Associate. I work in project management and clinical supply chain. My role entails a lot of collaboration with other professionals regarding the efficiency of transporting drugs for clinical trials.*



Alumni Making a Difference Sergio A. Sanchez Manchinelly '11

Sergio A. Sanchez Manchinelly '11 exemplifies many of the attributes KGI strives to instill in each student: drive, forward thinking, capability, and adaptability. His KGI journey began in 2010 when he started the Postdoctoral Professional Master's (PPM) program in bioscience management. After graduating in 2011, Sergio left KGI with many valuable skills and experiences that led to his current role as director of continuous improvement programs at Beckman Coulter. He noted the Team Master's Project (TMP) with Tecan as one of the more beneficial experiences at KGI.

Sergio's current role has led to meaningful work across the globe. He is launching a consulting service for laboratories in the EU and Asia Pacific that is modeled after the service he already created in the U.S. While this work is multi-faceted and can be rigorous, Sergio finds it fulfilling. He says that often his different consulting projects have called upon the skills he learned at KGI. These projects include: market entry, product strategy, product lifecycle management, competitive intelligence, business strategy development, strategy deployment, operational improvements, and laboratory workflow improvements.

Do you feel KGI helped you acquire your current role?

Yes, most definitely. It introduced me to the world of operations management and continuous improvement, which is central to my role today.

What were your most memorable moments at KGI?

They were all related to the senior industry people that I met. I met former Amgen CEO, Dennis Fenton, having the opportunity to build a relationship with Dennis over time was extremely encouraging and inspirational. He served as a reference for me, provided suggestions for jobs at biotech companies where he was advising, and provided solid career advice during the personal conversations we held. I was very grateful for this advice and help.

Have you stayed in contact with peers and/or faculty from KGI?

Yes, this is the network of peers I most treasure.

What is the most important skill, lesson, and/or knowledge you gained through KGI?

There are so many things. I will call out a few: how to network and build mutually benefitting relationships, all the different areas of industry that I could take my career (not just R&D), the importance of people management, and team engagement for successful projects.

What drew you to KGI?

The network of industry professionals available to students was the main reason why I decided to come to KGI. As I tried to transition out of academia, I knew I could not build a network as strong and deep on my own as I could through KGI.

“The experience, exposure, networking opportunities, and knowledge I gained while at KGI catapulted my skills and post-graduate marketability to a whole new level.”

Sergio Sanchez '11

What do you see as KGI’s major strengths?

KGI is a launching pad from academia to industry. It is a safe environment in which to learn how to perform as a professional and understand industry expectations.

Was KGI supportive and effective in terms of advancing your professional goals?

Aside from the “soft” network exposure/access, the resume reviews, career days, and recruitment sessions with visiting company HR reps were very helpful. I was able to learn what worked and what didn’t directly from the experts.

Where do you see the international community in terms of future industry developments?

While every country has its nuances and needs, the core issues, challenges, and opportunities are really the same across the world. The core issues are around how to drive to better health outcomes faster, cheaper, and more effectively than we do today. How to improve the patient and healthcare provider experience. Those that are able to address this global opportunity are creating value that can be captured as financial rewards and in many instances transferred across countries. Furthermore, there are so many capable professionals across the world working on these same issues that answers to global problems are coming from a variety of places, not just the usual suspects. Tapping into those resources and human capital in a global, connected world is the new competitive advantage.



Number of Alumni: 1100
Industries Employing Alumni:

- Biotechnology
- Computer Software
- Defense and Space
- Education Management
- Higher Education
- Hospital and Health Care
- Information Technology and Services
- Investment Banking
- Law Practice
- Legal Services
- Management Consulting
- Market Research
- Marketing and Advertising
- Medical Devices
- Medical Practice
- Pharmaceuticals



Countries Employing Alumni:

- Canada
- China
- India
- Indonesia
- Japan
- Switzerland
- United States
- United Kingdom

Year In Review





1. Second-year PharmD students participated in a **KGI Shark Tank** event and were asked to develop practical application ideas as core informatics concepts were taught. The event was held on December 8, 2015, and industry leaders served as judges (“sharks”). The event was part of the PHAR 430 Introduction to Pharmacy Informatics class. Pictured is the 1st place team: “6 Essential Vitamins.”

2. **Commencement 2016** was held on May 14th and was a keystone moment for all graduates.

3. On Saturday, March 12, 2016, the California Pharmacists Association (CPhA) held its second annual **San Gabriel Valley Regional Legislative Days event** at KGI. The event served as a forum to discuss important legislation and pharmacy issues and brought together local business owners, legislators, pharmacists, consultants, technicians, and student pharmacists. Local Assemblymember Freddie Rodriguez (D-Pomona) discussed the importance of grassroots advocacy efforts.

4. Transcutaneous electrical stimulation paired with 3D printed arm cast. **Students from the ALS 425: Device and Diagnostic Product Development class** showcased the devices they designed and built during spring semester. Pictured is BONES, a transcutaneous electrical stimulation paired with 3D-printed arm cast.

5. School of Pharmacy students celebrate the completion of a successful term at the **KGI 2015 End of Year BBQ**.

6. KGI students show support for their community by taking part in the **Relay for Life** fundraising walk.

7. **Kiran Mazumdar-Shaw, pioneer of the biotechnology industry** in India and the founder of the country’s leading biotechnology enterprise, Biocon, visited KGI this past spring and spent the day meeting with students, faculty, and senior leadership.

8. On February 26, KGI hosted **“Rare Disease Day”:** **Advances in Rare Disease Therapy**. One of the highlights included special guest speaker, Cindy Abbott, who shared her remarkable story of climbing Mount Everest and racing in the 1,000 mile Iditarod Trail Sled Dog Race in Alaska, all while dealing with the complications of a rare disease.

9. **The Team Master’s Project (TMP) winners** for the Collaborative Excellence Award-Technical TMP for the 2015-16 academic school year worked rigorously on a project for Gilead.

10. KGI Students posed for group photo in **celebration of the end of the 2015-2016 academic year**.

THANK YOU!

Donor Recognition

Keck Graduate Institute is exploding at the seams. Exploding with new ideas. With discoveries. With translational scientific applications. With successful, outside-of-the-box research. And because of your support, KGI students continue to succeed. They continue inventing. Discovering. Solving. Curing. Creating. Translating. Applying. The 2015-2016 saw some of the largest, most transformational gifts of our institution's history. KGI supporters are forward thinkers. Because of you, KGI is succeeding and on the verge of even more.

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Donors Making a Difference: Dennis and Linda Fenton



The support we receive from donors is vital to KGI's success. While we are proud of our growing network, our history has depended on the generosity of a small, dependable community of supporters dedicated to advancing KGI's reach and influence.

Among KGI's most generous donors are Dennis and Linda Fenton, who pledged \$3 million to KGI's Amgen Bioprocessing Center (ABC). The donation, officially the Fenton Bioprocessing Leadership (FBL) gift, will be used to stimulate innovation in bioprocessing education at KGI.

The gift's purpose is to drive the growth and national prominence of the ABC through the matriculation of highly qualified students who major in bioprocessing technology at both the master's and PhD levels. Gift funds will be used to develop the FBL Center for Research & Training and to transform and expand the existing ABC into a state-of-the-art facility for training the next generation of scientists. Funds may also be allocated to attract and retain distinguished faculty, as well as purchase necessary equipment and supplies to ensure that bioprocessing continues to be a growing and major focus at KGI.

Additionally, the FBL gift will nurture growth of new areas at KGI, including short-term visiting fellows and scholars (from FDA, industry, and overseas) and short-term postdoctoral researchers working on targeted strategic areas.

The Fentons' support of KGI and its mission to provide students with a world-class education is not new. In 2011, the Fentons pledged \$500,000 to KGI's Annual Fund, and in 2005 they endowed the George B. and Joy Rathmann Professorship.

Dennis M. Fenton is a former executive vice president at Amgen and currently sits on a number of public and private corporate boards, as well as being a vice chair of the KGI Board of Trustees. He and his wife, Linda, have focused their philanthropic energies on scientific education and childhood literacy.

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Since the Beginning

“My involvement at KGI goes back to the beginning,” says Robert E. Curry, Chair of the Board of Trustees at Keck Graduate Institute. “I remember early conversations with Hank Riggs about his idea for a game-changing graduate institution that would teach

more than just theory—it would educate students and encourage hands-on application of the life sciences. That was the best idea I had heard in quite some time. We must have been right. Look at KGI now and how far it has come.”

KGI owes a good deal of “how far it has come” to the dedication and leadership of Dr. Robert Curry. A former professor at the University of Delaware, Dr. Curry earned his PhD in chemistry from Purdue University where he was a Smith Kline Fellow. He earned his BS in physics from the University of Illinois.

A passionate advocate for KGI and its students, Dr. Curry has supported the institution since 1995, two years before its official founding, by committing his time, resources, and expertise. KGI has benefited from his leadership as board chair for the past 13 years, and we are grateful for his continued support and enthusiasm as we embark on the next exciting chapter in KGI's history.

“KGI is extremely grateful for and appreciative of the continued generosity of Dennis and Linda Fenton. This gift will encourage advancement of these and future programs for the benefit of the KGI community and the bioprocessing industry.”

President Sheldon M. Schuster



New to KGI: Molly Chestnut
Senior Director, Advancement and Giving

Helping Donors Support Discovery

“KGI graduates help the sick and injured, and solve real-world problems through science, technology, and industry. KGI supporters aren’t just providing lab equipment and research funds—they are promoting discovery.”

Working with passionate donors is *my* passion. At KGI, there is no limit to the good that can be accomplished. There is no ceiling on what can be researched, invented, or learned. The sky is the limit here.

To those supporters who have helped KGI become what it is today, thank you. Your belief in our faculty, students, and research has positioned this institution for an exciting future. Amazing things can happen when philanthropy and discovery come together. I look forward to working with you and becoming a part of the community here.”

Molly Chestnut joined the KGI family as senior director of advancement, effective July 22, 2016. Molly brings with her an impressive list of experience and skills; including approximately 15 years of combined experience in higher education fundraising, campaign strategy, board cultivation, constituent engagement, marketing/communications, and stewardship. She has worked at Stanford Law School; University of California, Riverside; and, most recently, Scripps College.

To learn more about how you can help KGI students, faculty, and graduates make discoveries and improve lives, contact Molly Chestnut, senior director of advancement and giving at molly_chestnut@kgi.edu or 909.607.0113

“KGI supporters aren’t just providing lab equipment and research funds—they are promoting discovery.”

Molly Chestnut, Senior Director, Advancement and Giving

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The Team Master's Project (TMP) provides an opportunity for KGI students to tackle real-life challenges in partnership with leading life sciences companies. Corporate partners address objectives without having to invest in additional permanent assets. At the same time, TMP's provide students with invaluable industry experience, insights, and connections. That is progress through educational partnership. KGI and its students are grateful to our 2015-2016 Team Master's Project sponsors:

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New to KGI: Christa Oudshoorn-Hobo,
Alumni Engagement Manager

Over 1100 Alumni and Counting

"I am continually inspired by the talented KGI students and faculty working to improve the world through scientific research. I am proud of our alumni and I am motivated by their passion, dedication, and commitment."

In 2015-2016, KGI re-dedicated itself to bringing the 1100+ member KGI alumni community together. The office of Alumni Engagement helped to connect alumni in meaningful ways including lifelong learning webinars, quarterly virtual town hall meetings and regional networking events with industry leaders in Westlake Village, San Diego, New York, New Jersey, San Francisco, Orange County, and San Mateo. Building connections is essential to alumni success. KGI is here to promote and support our alumni."

Christa Oudshoorn-Hobo joined KGI on November 30, 2015, after working at the Department of State for 11 years. As a protocol and programs specialist, she established a Youth Advisory Board designed both to engage students and gain vital feedback from a youth perspective. She helped students connect with a variety of industry leaders, often leading to professional opportunities. In addition, she has served on many boards as a volunteer and fundraiser.

To learn more about the Alumni Engagement program or if you are interested in volunteering, contact Christa Oudshoorn-Hobo, alumni engagement manager, at christa_hobo@kgi.edu.

"I am continually inspired by the talented KGI students and faculty working to improve the world through scientific research. I am proud of our alumni and I am motivated by their passion, dedication, and commitment."

Christa Oudshoorn-Hobo, Alumni Engagement Manager

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“Her legacy at KGI will continue to provide students with opportunities to become leaders and innovators in the life sciences industry. The entire KGI family will forever owe a debt of gratitude for the support and kindness Mrs. Norris extended.”

In Memorium: KGI Trustee Emerita Harlyne J. Norris



Everyone at KGI is saddened by the loss of Harlyne J. Norris of The Kenneth T. and Eileen L. Norris Foundation.

The Norris Foundation was one of the original foundations to invest in KGI, and as a founding donor, has remained an important part of KGI's history. Mrs. Norris,

one of the early trustees at KGI, remained active and committed to KGI's mission and was an influential figure in planning and development throughout the years. Reflecting this dedication, she accepted the president's invitation to join the President's Council and was an Emeritus Trustee.

KGI President Sheldon M. Schuster explained: "Harlyne J. Norris was an exceptional individual who has been a part of KGI from the very beginning. Early on, she shared the vision that KGI could become a leader in teaching students to be successful in the life sciences and biotechnology industries, and I am glad she was able to witness KGI's progress in meeting those goals. More than anything, Harlyne was a generous and kind person whose dedication to stewardship will continue to improve the lives of many for years to come. She will be deeply missed by all at KGI."

The Norris Foundation endowed the Norris Professorship, currently held by Dr. Ian Phillips. Commenting on the importance of Mrs. Norris' support, Dr. Phillips said: "Mrs. Harlyne Norris was a wonderful lady who supported a variety of higher education initiatives at KGI and other universities in Southern California. I met with her on several occasions with President Schuster, and am proud to be the Norris Professor of Applied Life Sciences. Mrs. Norris was so kind and committed to new ideas that would make KGI better known nationally. Thanks to her constant interest and support, KGI founded the Center for Rare Disease Therapies to help people with rare diseases. Mrs. Norris was always sincerely interested in our progress, and in our students who formed the Rare Disease Club. She was charming, intellectually inquisitive, and had a great sense of humor. We will miss her broad smile. Our heart goes out to her entire family."

Additionally, the Norris Foundation has funded KGI's Summer Undergraduate Research Experience (SURE) Program for three consecutive years, and as noted above has provided funding for KGI's Center for Rare Disease Therapies, as well as funding for the refurbishment of the Founders Room.

Her legacy at KGI will continue to provide students with opportunities to become leaders and innovators in the life sciences industry. The entire KGI family will forever owe a debt of gratitude for the support and kindness Mrs. Norris extended.

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Professor of Practice, Clinical and Administrative Sciences

Mylene Manalo, PharmD, BCPS
Assistant Professor of Clinical

Gail Orum-Alexander, PharmD
Associate Dean for Assessment and Faculty Development, Professor, Clinical and Administrative Sciences

Talia Puzantian, PharmD, BCPP
Associate Professor

Samit Shah, PhD, MBA, RPh
Associate Dean of Academic Affairs and Chair of Biopharmaceutical Sciences, Sidney J. Weinberg Professor

Armen Simonian, PharmD
Assistant Dean and Chair of Clinical and Administrative Sciences, Associate Professor, Certificate Coordinator for Health Information Technology

Robert L. Stein, PharmD, JD
Professor of Practice, Pharmacy Law and Ethics

Tania Stewart, PharmD
Assistant Professor, Clinical and Administrative Sciences

Rachita K. Sumbria, PhD
Assistant Professor, Biopharmaceutical Sciences

Kim Tallian, PharmD
Director, Residency and Teaching Certificate Program, Adjunct Professor, Clinical Sciences

Julie Truong, PharmD
Assistant Professor, Clinical Sciences

Katerina Venderova, PharmD, PhD
Associate Professor, Biopharmaceutical Sciences

Kathy Webster, PharmD, PhD
Founding Dean, Professor

Alexander Zambon, PhD
Assistant Professor, Biopharmaceutical Sciences

More About KGI

Mission

To enrich society with breakthrough approaches to education and translational research in the life sciences.

Background

KGI is the only American graduate institution devoted solely to bioscience education and discovery. Founded in 1997, through a \$50 million grant from the W. M. Keck Foundation, KGI pioneered a new field of higher education—the Professional Science Masters (PSM)—the first significant change in American science education in 40 years.

As the seventh and newest member of The Claremont Colleges, KGI is part of a group of highly selective, private institutions that share a wide range of central facilities and services.

KGI is accredited by the Accrediting Commission for Senior Colleges and Universities of the Western Association of Schools and Colleges.

An Innovative Approach

KGI's degree and research programs offered by the School of Applied Life Sciences are singularly focused on the unique and specific demands of the biosciences industry. Recognizing that the solutions to real-world challenges require teamwork, creative problem solving skills and cross-functional fluency, our curriculum is interdisciplinary and incorporates an intensive technical component with a broad management and policy component, as well as innovative approaches to developing leadership skills. As a result, our students graduate with a practical understanding of the results-oriented, collaborative culture in which scientists, engineers and managers operate.

Likewise, KGI's School of Pharmacy is dedicated to the education of innovative pharmacists who will serve the needs of individual patients, the healthcare system, and the bioscience industry. Our program emphasizes interprofessional collaboration, systematic problem solving, the safe, efficient and ethical use of technology and biotechnology, and personalized patient care.

Culture

KGI seeks to sustain an interdisciplinary and entrepreneurial culture, working in partnership with industry to develop leaders for the biosciences and pharmaceutical sciences, while promoting academic freedom and the highest ethical standards.

KGI Students and Faculty

Students come to KGI with academic backgrounds in the natural/life sciences, engineering, mathematics, computer science, and medicine. They learn from faculty possessing impressive academic credentials, as well as firsthand knowledge of industry from having worked for biotechnology and pharmaceutical companies. Professors' keen awareness of the industry's latest developments allows them to bring new ideas and innovations into their classrooms and labs.

Statistics

- 527* students enrolled 2015-2016
- Gender breakdown: (Combined 54% female, 46% male). (SALS 49% female, 51% male). (SOP 63% female, 37% male).
- Ethnic breakdown: 41% Asian, 23% White, 12% unknown, 9% Hispanic, 9% African American, 6% two or more.
- Average age of KGI students: 26 • Average GPA of KGI students: 3.2
- KGI faculty-to-student ratio: 9:1
- Geographic reach: Canada, Mexico, Guatemala, Peru, Spain, Nigeria, Cameroon, Israel, Iran, India, Malaysia, China, South Korea, Japan

Top 2015-2016 Summer Internships (SALS only)

- Amgen, Thousand Oaks, CA
- City of Hope, Duarte, CA
- Sarepta Therapeutics, Cambridge, MA
- Illumina, San Diego, CA
- Roche Molecular Systems, Pleasanton, CA
- Boehringer Ingelheim, Fremont, CA
- CareFusion, San Diego, CA
- Covidien, Irvine, CA
- DeciBio Consulting, Santa Monica, CA
- Regeneron, Tarrytown, NY

Accreditations

Accredited by the Western Association of Schools and Colleges (WASC); nationally accredited in Art, Applied Life Sciences, Master of Science in Applied Life Sciences, Master of Bioscience, Pharmacy, Postdoctoral Professional Master in Bioscience Management.

Academic Organization

The instructional program is offered by two colleges, whose deans are:

Steve Casper, Dean of the School of Applied Life Sciences; Henry E. Riggs Professor of Management
Kathy Webster, Founding Dean, School of Pharmacy; Professor of Biopharmaceutical Sciences
Stephen M. Kosslyn, Founding Dean, School of Arts and Sciences, Minerva Schools at KGI

*Per information available at print date

Academic Programs Offered

Just over 500* students enrolled in:

- Master of Bioscience (MBS)
- Master of Engineering in Biopharmaceutical Processing (MEng)
- Postdoctoral Professional Master's (PPM)
- Postbaccalaureate Premedical Certificate (PPC)
- PhD in Applied Life Sciences, CAST PhD (PhD)
- Certificate in Bioscience Management
- Doctor of Pharmacy (PharmD)
- Biocon Academy
- Summer Programs
- Minerva Schools at KGI

Other Offerings

- Bioprocessing Professional Advancement Training (BPAT)

KGI Centers

Keck Graduate Institute brings together faculty with expertise in bioengineering, applied molecular and cellular biology, and bioscience business under one administration, with no departmental boundaries. To facilitate interdisciplinary collaborations between faculties from diverse backgrounds, KGI has established four centers based on our unique institutional capabilities.

Amgen Bioprocessing Center

One of the most important teaching and research laboratories at Keck Graduate Institute, the Amgen Bioprocessing Center serves as the basis for the bioprocessing focus track offered as part of KGI's Master of Bioscience (MBS) degree program. The Center is a state-of-the-art facility where MBS students learn the skills necessary to become leaders in bioprocessing.

Center for Biomarker Research

The Center for Biomarker Research is dedicated to education and applied research activities that expand knowledge and development of biomarkers as a tool for diagnostics, drug development, and the practice of medicine in the 21st century.

Center for Rare Disease Therapies

Established to raise awareness of rare diseases and promote promising treatments, the Center for Rare Disease Therapies educates students to become biotech industry leaders who understand rare diseases and recognize the need for remedies. It brings together all of the parties who can make a difference and find solutions: patient advocacy groups, pharmaceutical and biotech companies, government agencies, research institutions, and nonprofit organization.

Science Heritage Center

Celebrating the great 20th century inventors Arnold Beckman and Wallace Coulter, the Science Heritage Center showcases the pioneering analytical instruments that helped revolutionize the bioscience and diagnostic industries. On display are more than 50 instruments spanning multiple generations, allowing visitors to trace the technical developments that made each model better than the one that preceded it. The Science Heritage Center is open to the public, and students are especially welcome to visit, including high school fieldtrips.

KGI Board of Trustees Celebrate Campus Expansion to 1 North Indian Hill in Claremont





KGI senior leadership and Board of Trustees members had the opportunity to explore the new student work spaces and administrative office spaces slated to open for use in October 2016.

The relocation of senior administrative and student collaboration spaces is necessary as KGI continues on its accelerated growth trajectory.

With student enrollment projected to reach 600 by fall 2018, this is one of many physical expansion projects expected to help meet the needs of KGI's continued growth.

Locating administrative offices and student collaboration space within the bustling "Claremont Village" puts KGI within the sight-lines of the Claremont Consortium community. Placement of KGI north of Santa Fe Avenue will be a visual cue to fellow Consortium faculty, administrators, and prospective students that KGI is an emerging institution with continued steady growth.



Statement of Financial Position

ASSETS

Cash and cash equivalents	\$2,372,861
Accounts receivable	\$1,508,940
Prepaid expenses and deposits	\$2,366,017
Contributions receivable	\$7,485,424
Funds held in trust for others	\$260,411
Investments	\$68,977,503
Buildings and equipment	\$12,685,289

Total assets \$95,656,445

LIABILITIES

Accounts payable and accrued liabilities	\$2,511,381
Deposits and deferred revenues	\$2,413,157
Notes payable	\$36,163,335
Funds held in trust for others	\$90,765

Total liabilities \$41,178,638

NET ASSETS

Unrestricted	\$20,444,829
Temporarily restricted	\$13,875,385
Permanently restricted	\$20,157,593

Total net assets \$54,477,807

Total liabilities and net assets \$95,656,445

Statement of Activities

REVENUES

Net tuition and fees revenues	\$14,927,798
Private gifts and grants	\$4,064,629
Private contracts	\$1,981,623
Federal grants and contracts	\$994,720
Investment income	\$3,635,229
Other revenues	\$694,273

Total revenues \$26,298,272

EXPENSES

Instruction	\$6,374,138
Research	\$2,117,127
Academic support	\$6,711,435
Student services	\$2,035,322
Institutional support	\$7,084,912

Total expenses \$24,322,934

Excess of Revenues over Expenses \$1,975,338

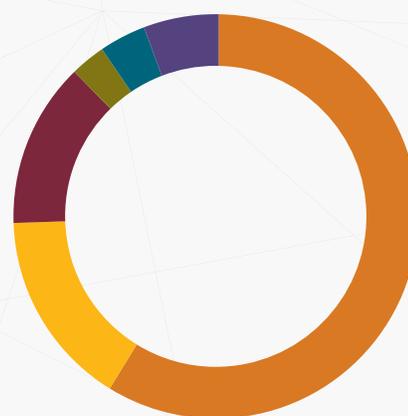
OTHER CHANGES IN NET ASSETS (\$4,063,619)

Change in net assets (\$2,088,281)

Net assets, beginning of year \$56,566,088

Net assets, end of year \$54,477,807

Revenue



Financial information provided within this document is summarized from Keck Graduate Institutes's June 30, 2016 Audited Financial Statements. Full annual financial report available upon request.



KGI continues to evolve and surpass early expectations. Our own institutional mission, “To enrich society with breakthrough approaches to education and translational research in the life sciences” continues to guide and inspire those who work and learn here.

We are proud of the progress made so far, focused on the work at hand, and mindful of all that is yet to be discovered.

An investment of resources in KGI and its students is one that will realize boundless returns for generations to come.

The KGI students, faculty members, staff, and community thank you for your support of our institution.



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