Philanthropy in Motion

Al and Stephanie Tarkington have both enjoyed long, successful careers. He’d graduated from Cal Poly Pomona in 1964 with a degree in business administration and had gone on to grow a thriving accounting firm, while briefly serving as mayor of Del Mar. After earning his education degree from Cal State LA, Stephanie worked as a special education teacher and had risen to become the principal of a large public middle school.

The Tarkingtons have always had an itch to travel. Unlike sedentary tourists, they prefer to do it pedaling on a bicycle — a tandem bike for two to be exact. They have literally traveled the world biking through more than 40 countries. “You are not sitting high in a tour bus. You are out in the fresh air connecting with the local people,” Stephanie says.

Al retiring last the swim team at Cal Poly Pomona has carried over into triathlons. In addition to many shorter triathlons, he has competed in 20 Ironman distance competitions, including 10 at the Ironman World Championship in Hawaii. Ironman consists of a 2.4-mile swim, a 112-mile bicycle ride and a 26-mile run. Last year at 85, Al was the last athlete to cross the finish line. As always, Stephanie was his ardent and active cheerleader.

The Tarkingtons have long included Cal Poly Pomona in their estate plans, but in 2018 they increased their commitment to a $1 million bequest in the College of Business Administration. This year, they’ve pledged $250,000 through the sale of a rental property to establish the Tarkington Family Fellowships in Entrepreneurship to benefit NASA-CPP.

At a retired CPA, Al says, “By donating appreciated property, I am able to donate the full value of the property and not the amount remaining after selling the property and paying income taxes on it.”

“We wanted to support students to do something that went beyond academics,” he says. “When I was a student, I was involved with the Red Fleet, working alongside students from the engineering and agriculture departments. Cal Poly Pomona’s team by doing approach was an important part of my education.”

Over the dedicated educator, Stephanie adds that she is impressed by David D. Rollins’s vision for the college, especially when it comes to putting students at the forefront. “The school is in the center of a somewhat underserved population,” she says. “They’ve been working with high schools to bring students on campus so they can have a college experience and understand what it could mean for their future. That kind of support is vital in enabling students to really reach their full potential.”

— Shelley Levitt

Market Ready

NASA-CPP is getting closer to bringing its products to consumers like you

Augie Brookwell is a biotechnology student who leads a team that’s working on an at-home product that can track how the body absorbs certain nutrients.

“I went into this program thinking I was just going to be doing some biology research. But I’ve gained so much more than I thought I would, getting to lead a team from different disciplines, including engineers, business majors and physicists,” he says.

Erika Sheppard, an Australian native, targeted Cal Poly Pomona and the NASA-CPP program because she has a product she wants to create. Now, majoring in business administration and computer information systems, she’s in charge of the Lumoscope project.

“What’s unique about this program is that it really brings together everything that you need to know for a product start-up,” she says. “You get to practice a very broad range of skills.”

Focusing on the science and their prototypes, Professor Ozkaya beams.

“All the students here are awesome,” he says. “I get so emotional about them. Both students and faculty put an insane amount of hours into this program, and I absolutely love it!”

In the next two or three years, you might be able to improve your posture by slipping on Posturonic, an electronic vest-like device whose sensors will emit a pulse whenever you’re slouching.

If you’re shopping for the perfect birthday gift for a grade-school kid, one affordable option could be Lumoscope, a high-powered portable microscope that’s on sale for a grade-school kid. One affordable option could be Lumoscope, a high-powered portable microscope that absorbs certain nutrients.

The program has received several grants, won numerous awards and evolved its operations.

“Our goal in the beginning was to create products directly from NASA technologies,” says H. Erkan Ozkaya, the founding director of the project and professor of innovation in the College of Business Administration. “But, as we discovered, you almost always need to modify space technologies to be feasible for consumer products. That’s why we’ve changed from using NASA technologies outright to being inspired by NASA technology.”

Now the program is entering an exciting new phase of entrepreneurship. With funding provided by generous donors that include Al and Stephanie Tarkington, NASA-CPP is moving toward obtaining patents, forming a company for each product, finding investors and bringing the products to market.

“Donors are an essential part of our ecosystem,” Ozkaya says. “Our funding for research and development and scholarships for students come mainly from donors.”

The process from product idea to product prototype to a refined product takes several years, with lots of trial and error.

to a revolutionary new fan blade, tentatively dubbed AirFloLab, that blows 52 percent more air than traditional blades with the same amount of electricity and a lot less noise.

These widely disparate inventions have a common theme in common. One, they are all built on or inspired by NASA technologies. And two, they were feasible for consumer products. That’s why we’ve changed from using NASA technologies outright to being inspired by NASA technology.”

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