

THE STEVENS INDICATOR

WINTER 2020 ✦ THE MAGAZINE OF THE STEVENS ALUMNI ASSOCIATION



Opportunity Unlocked

*Clark Scholars see their
dreams within reach*





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President Nariman Farvardin's on-campus residence, Hoxie House, cloaked in snow during a winter storm. Photo: Jeff Vock

Cover Illustration: Neil Webb
Cover Design: Simone Larson Design

PRESIDENT'S CORNER

REFLECTING ON OUR TRANSFORMATION AND PROGRESS: STEVENS' 150TH ANNIVERSARY

The year 2020 marks a momentous occasion for Stevens — the 150th anniversary of our founding as America's first college of mechanical engineering. As Stevens enters its 150th year, a year that will be filled with celebrations, intellectual and cultural events, outreach and service activities, and many reminders of the university's impact on engineering, technology and society, we take this opportunity to reflect on some of the significant changes at Stevens over the years, and on how recent achievements prepare us for a stronger future.

Some of the most significant changes in Stevens' last 150 years can be seen in the student body itself. Since the first class of 21 young men entered Stevens as freshmen in the fall of 1871 in the pursuit of a mechanical engineering degree, Stevens has grown in size, in breadth of academic programs, in diversity and in reach. Today, Stevens enrolls 3,659 undergraduates and 3,624 graduate students who are pursuing baccalaureate, master's and Ph.D. degrees in 12 engineering disciplines, as well as in mathematics and the sciences, computer science, business, and the arts, social sciences and humanities. Overall, enrollment has grown by 51 percent since 2011 when Stevens launched its ten-year strategic plan, *The Future. Ours to Create*. Today, 29 percent of our undergraduates are female, and more than 14 percent are from groups that have traditionally been underrepresented in STEM (science, technology, engineering and math) fields. Our graduate students come from the U.S. and 51 other countries around the globe, with China and India representing the largest international cohorts of graduate students, and today, Stevens enrolls significant numbers of corporate and online graduate students.

As our student body has grown, so has our faculty and research portfolio. As of fall 2019, the full-time faculty complement numbers 328, a growth of 36 percent since 2011 and the largest in Stevens' history. As these talented new faculty, who have joined us from prestigious institutions such as MIT, Princeton and Caltech, establish strong research programs they, along with our veteran scholars and researchers, will continue to expand the size and impact of our research programs.



PHOTO: AARON HOUSTON

Perhaps the most visible symbol of change is the transformation of our campus. In the recent past, Stevens has upgraded 100 percent of classrooms; installed a state-of-the-art technology infrastructure; opened a magnificent new academic building, the Gateway Academic Center, on the corner of Sixth and Hudson streets; and completed dozens of renovations to academic, student life and administrative spaces. This year, we also broke ground on our most ambitious building project in history, the Student Housing and University Center. This project will house nearly 1,000 students on the site of the former Jacobus and Hayden halls, as well as

a new three-story university center with stunning views of the Manhattan skyline. These and many other projects are literally transforming the campus to prepare the next generation of students for success in a dynamic, technology-driven future.

I look forward to welcoming you to campus during our 150th anniversary celebrations to see first-hand the exciting developments at your alma mater and to engage you as we prepare for a brighter, stronger future for Stevens. Please visit our sesquicentennial website, stevens150.com (launching on Founder's Day, February 15, 2020), to learn more about upcoming special events and to access a special collection of 150 stories commemorating this historic anniversary. ❖

Per aspera ad astra,

A handwritten signature in black ink, which appears to read "N. Farvardin". The signature is written in a cursive, slightly stylized font.

Nariman Farvardin
President, Stevens Institute of Technology
president@stevens.edu
201-216-5213

**WINTER 2020,
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Beth Kissinger
Beth.Kissinger@stevens.edu

Managing Editor

Erin Lewis
Erin.Lewis@stevens.edu

Contributors

Connor Durkin
Stevens College of Arts and Letters

Alan Skontra
Stevens Office of Development
and Alumni Engagement

Kellie M. Walsh

Young Soo Yang
Stevens Division of
Communications & Marketing

Art Direction/Design

www.DanFlintDesign.com

Additional Art Direction/Design

Michael Hofmann

Rob Lago

Simone Larson Design

Development and Alumni Engagement

Matthew V. Gwin
Stevens Assistant Vice President
for Annual Giving and Alumni
Engagement and Executive Director
and Executive Secretary, Stevens
Alumni Association

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Indicator Correspondence

The Stevens Indicator
1 Castle Point Terrace
Hoboken, NJ 07030
Phone: (201) 216-5161

Letters to the Editor

editor@alumni.stevens.edu

Class Log submissions

alumni-log@stevens.edu

General SAA inquiries

Contact the Alumni Office
Phone: (201) 216-5163
Fax: (201) 216-8247
alumni@stevens.edu

**A HERO'S PASSING**

I noticed a photo of an elderly veteran on page 12 of the latest *Stevens Indicator* ("Helping Veterans at the Heart of Summer Projects," Fall 2019 issue). Several friends of mine (we all grew up in Hoboken) posted on Facebook of his passing, not too long after *The Indicator* article was published. Maybe not too terribly



relevant to Stevens itself, but I was really touched at seeing how Stevens students were carefully assisting this decorated vet at the fundraising gala mentioned in this story. It really confirms to me that Stevens continues to support noteworthy causes and focuses on the community at large in Hoboken. ❖— *Ada Pietropaolo M.S. '05*

(*Editor's Note: World War II and Korean War veteran Vincent Wassman of Hoboken passed away on Oct. 10, 2019, at age 94. The Indicator staff expresses its deep sympathy to his family and his many friends.*)

SPELL IT OUT!

I have just finished wading through the Spring/Summer *Indicator*, noting with interest — from the cover's "Evolving the Face of Stem," through the President's Corner, the SAA President's Letter and all the well-done articles on pages 12-29 — a good number of things that I never knew. I came across the phrases "women in STEM, STEM fields, STEM skills, STEM degrees, STEM workforce, STEM gender gap, STEM subjects, role models in STEM, STEM activities, STEM careers, STEM and the business world, and what it's like to be in STEM." While I am cognizant of the field of stem cell research, and the acronyms NASA, FLO-TUS, AWOL, SCOTUS, AARP, MADD, SPCA, USGA, etc., I have to admit that this old bird was not "up" on STEM. After "Googling" it, I am now aware that it stands for Science, Technology, Engineering and Math — the key to education for global leadership. My point? You might want to remind the authors of *Indicator* articles that among their readers are many other nonagenarians who are not up to speed on the latest jargon and need to have acronyms expanded. Overall, your work still rates an A-plus. ❖— *A. Richard Boera '46*

**MORE FROM OUR
MILITARY ALUMNI**

I was pleased to see the Fall 2019 edition of *The Indicator* saluting military alumni. With a distinctive historical military affiliation, even though it's a noticeably smaller military alumni community these days, it's nice to know I have peers on active duty and that Stevens continues to contribute to that excellence. I wish I had known you were running an article; I would have liked to have contributed as well. I've been on active duty in the Air Force for over 21 years now. Like Major John Golden '09 featured in the issue ("Catching Up with John Golden"), I'm a career HH-60 rescue helicopter pilot — in fact, I know and have flown with Major Golden. I'm also involved in defense acquisition, test and evaluation of new vertical lift aircraft. ❖— *Air Force Col. H. Warren Rohlfs '98*
(*Editor's Note: Learn more about Col. Rohlfs and see his photo in this issue's 1998 log.*)

Editor's Note: The Indicator asked readers to identify the young sailors in the photo on page 43 of the Fall 2019 issue, and Dick Boera '46 may have nailed it. He writes:

"The two guys on the right are the Crate twins, Jack and Jim, Class of 1947; please don't ask me who is who, although I believe that Jim is in the foreground of the photo. I know that Jim Crate was in the Class of '47 since I first met him at the graduate school commencement exercises at Caltech, where he and I received our master's degrees in 1949. Ironically, the Crates appear in your same fall issue, on page 28!"



GRIST FROM THE MILL



2019 ATHLETIC HALL OF FAME INDUCTIONS

Six high-achieving alumni were inducted into the Stevens Athletic Hall of Fame in a ceremony on Oct. 11. The 2019 class, pictured above, includes, from left, Alina Duran '14 (Track and Field), Emily (Woo) Waters '09 (Swimming), Sheldon Jones '13 (Basketball), Bob Walker '58 (Basketball and Soccer), Hillary Paul '10 (Field Hockey, Track and Field and Soccer), and George Serafin '87 (Lacrosse). Additionally, the track and field program received the 2019 President's Cup, which is presented annually to the varsity program that best exemplifies both academic and athletic success, combined with a strong sense of sportsmanship and dedicated service to the community. ❖

▶ To read more about the honorees, visit stevens.edu/hof2019

STEVENS RANKS AMONG TOP ROI

Among all U.S. colleges and universities awarding a four-year degree, Stevens is ranked No. 14 in the nation for return on investment 40 years after enrollment, according to "A First Try at ROI," a new report from the Georgetown University Center on Education in the Workforce. It is the first study to analyze the ROI of higher education at this longer time scale, revealing the value of a Stevens degree over the course of a graduate's career. According to the study, the net present value for a Stevens degree is \$1.83 million at 40 years, a value comparable to that of other prestigious universities, such as University of Pennsylvania (No. 15), California Institute of Technology (No. 17), Yale University (No. 20) and Columbia University (No. 21). ❖

▶ To learn more about the study's findings, visit stevens.edu/longtermroi

EMPOWERING WOMEN PATENT SEEKERS

In response to the well-documented gender gap in invention, Stevens biomedical engineering professor Vikki Hazelwood Ph.D. '07 moderated a panel discussion with seven of her former female students to discuss the question, "What might we do to encourage more women to write patents?" Based on personal experiences in higher education and in the workforce, the group made a list of eight recommendations, including teaching the invention process in schools or on the job; developing strong mentorship programs; encouraging women outside of traditional R&D roles to innovate; and to develop more workplace flexibility for primary caregivers. Highlights from their discussion and the full list of recommendations were published in the journal *Technology and Innovation* in October 2019, published by the National Academy of Inventors. Hazelwood co-authored the article with panelists and former students Erica Carpenter-Smith '10 M.Eng. '11, Morgan Continisio '13, Valerie DeAngelo M.Eng. '16, Marissa Gray M.Eng. '11 Ph.D. '14, Cynthia Hassler '11 M.Eng. '12, Rosemary Mugurusa '10 M.Eng. '12 and Jessie Wos '14. ❖

Professor Vikki Hazelwood Ph.D. '07



NEW JERSEY TECH COUNCIL AWARDS ACES PROGRAM

The New Jersey Tech Council recognized the Stevens ACES (Accessing Careers in Engineering and Science) program this past fall with its 2019 Innovation in Education Award. The award is given to a program that uses innovative technology while encouraging students to pursue higher education in science, technology, engineering and math (STEM). The ACES program, created two years ago by President Nariman Farvardin, has dramatically increased the participation and success of underserved and underrepresented minorities in both Stevens' Pre-College summer programs and undergraduate STEM degree programs. By producing a more diverse pool of STEM graduates, the ACES program is contributing to Governor Phil Murphy's goal of a "stronger, fairer economy," and may become a model for future state-wide initiatives. ❖

▶ For the full story, visit stevens.edu/acesaward

STEVENS HOSTS LEADERSHIP CONFERENCE

On Nov. 16, students, alumni, faculty and staff participated in the LeadHERship conference, an event that aims to empower women and gender minorities



Conference speakers Malena Higuera '75 M.M.S. '78, left, and Deanne Bell

through featured workshops, networking opportunities and inspiring lectures from leaders in STEM. Cosmetics executive Malena Higuera '75 M.M.S. '78 delivered opening remarks, sharing her experience as a member of the first class of undergraduate women admitted to Stevens when the university became fully co-ed in 1971. Keynote speaker Deanne Bell, an entrepreneur, discussed

the importance of mentorship and embracing creativity to become a more effective engineer. The event was co-sponsored by the university's Lore-EL Center for Women's Leadership, Graduate Student Life and Diversity Education, and was made possible by generous support from Dianne (Smith) Szipszky '90 M.Eng. '91 and the Office of the President, Diversity & Inclusion. ❖

▶ For the full story, visit: stevens.edu/leadership-conference



A. MICHAEL LIPPER ELECTED TO BOARD OF TRUSTEES

A. Michael Lipper, an icon in the world of money management, has been elected to the Stevens Board of Trustees, beginning his term this past October. Lipper brings 60 years of corporate experience to the board, and is founder and president of Lipper Advisory Services, Inc., an SEC registered investment advisor specializing in mutual funds, with current assets in excess of \$2 billion. Lipper is also the managing member of LSF Partners, LP, a private financial services fund. He is a regular source of industry comment to the global press and author of *Money Wise: How to Create, Grow, and Preserve Your Wealth*.

SOCIAL MEDIA



Former Hoboken resident Clay Walker delighted Stevens social media followers with three photos, taken over a 32-year period at Castle Point. The top photo was from 1987, with views of the Twin Towers despite haze from a fire on the eastern seaboard. The second was from 2003, two years after the September 11 attacks. He returned for the third photo in 2019, this time with his fiancée, for views of One World Trade Center.



GRIST FROM THE MILL

TURKEY DAY TRADITION

A little bit of wind didn't stop the iconic balloons from floating high above the Macy's Thanksgiving Day Parade route on Nov. 28. Macy's relies on thousands of volunteers to pull off the signature event, and for the last 34 years, Stevens has answered the call. Organized by Stevens longtime women's fencing coach Linda Vollkommer-Lynch, a team of more than 100 students, alumni, faculty and staff participated in the 2019 parade. These volunteers took on a variety of roles, from balloon inflation to piloting to vehicle management. True to Stevens' engineering roots, many of these participants prepared by conducting flight tests on campus to train for wind and other weather conditions. ❖



Stevens volunteers have participated in the Macy's Thanksgiving Day Parade for 34 years.

▶ Watch Linda Vollkommer-Lynch's interview with NBC at stevens.edu/parade2019

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ENGINEERING

- Electrical Engineering
- Pharmaceutical Manufacturing
- Space Systems Engineering
- Systems Engineering

Stevens alumni save 25% on StevensOnline graduate programs.
stevens.edu/alumni25

CALENDAR

HACKATHON FOR HEALTHCARE

For the third year in a row, Stevens brought innovative students and professionals from leading healthcare organizations together for the university's HealthTech Hackathon. Organizers said the latest edition of this annual event was the most successful yet, with 48 students forming 11 teams to brainstorm cutting-edge solutions to important issues in healthcare. They were mentored at the week-end-long event in November by close to 40 healthcare professionals, technology experts, engineers, scientists and business leaders and other professionals. The mentors who signed on to work with the participants and the volunteer judges came from such healthcare and technology heavyweights as Bristol-Myers Squibb, Johnson & Johnson, Quest Diagnostics and CentralReach. Bristol-Myers Squibb, a platinum-level sponsor, sent executives from Europe to attend. Participants represented more than two dozen universities and healthcare institutions. The winning team, from Stevens, took home the top \$5,000 prize for its mobile platform, which makes it easier for melanoma survivors to keep in contact with their care providers and maintain their medical regimens. ❖

▶ To read more about the HealthTech Hackathon, visit stevens.edu/healthtechhack

SERIOUS BRAIN POWER

Stevens recently launched the Center for Neuromechanics, a first-of-its-kind facility in the U.S. to apply the fundamental principles of mechanics and engineering to understanding the function, structure and health of the brain, spinal cord and peripheral nervous system. Assistant mechanical engineering professor Mehmet Kurt founded and serves as director of the center. The interdisciplinary approach by Kurt and his team could produce groundbreaking insights in topics ranging from concussions to Alzheimer's disease. ❖



Stevens professor Mehmet Kurt

▶ To learn more about the Center for Neuromechanics, visit stevens.edu/brainpower

FEB 21

FRIDAY

Founder's Day Soiree
Samuel C. Williams Library, Stevens campus

MARCH 12

THURSDAY

Vivaldi's "The Four Seasons"
with the New Jersey Symphony
Orchestra Chamber Players
DeBaun Auditorium, Stevens campus
stevens.edu/onstage

APRIL 15

WEDNESDAY

President's Distinguished Lecture Series:
Ralph Izzo, Chairman, President & CEO, PSEG
DeBaun Auditorium, Stevens campus
stevens.edu/lecture

APRIL 16

THURSDAY

Old Guard Luncheon
Bissinger Room, Stevens campus

MAY 1

FRIDAY

Innovation Expo and Ansary
Entrepreneurship Competition
Stevens campus

MAY 2

SATURDAY

Stevens Awards Gala
The Plaza, New York City
stevens.edu/awardsgala

▶ For additional Stevens events, visit stevens.edu/events



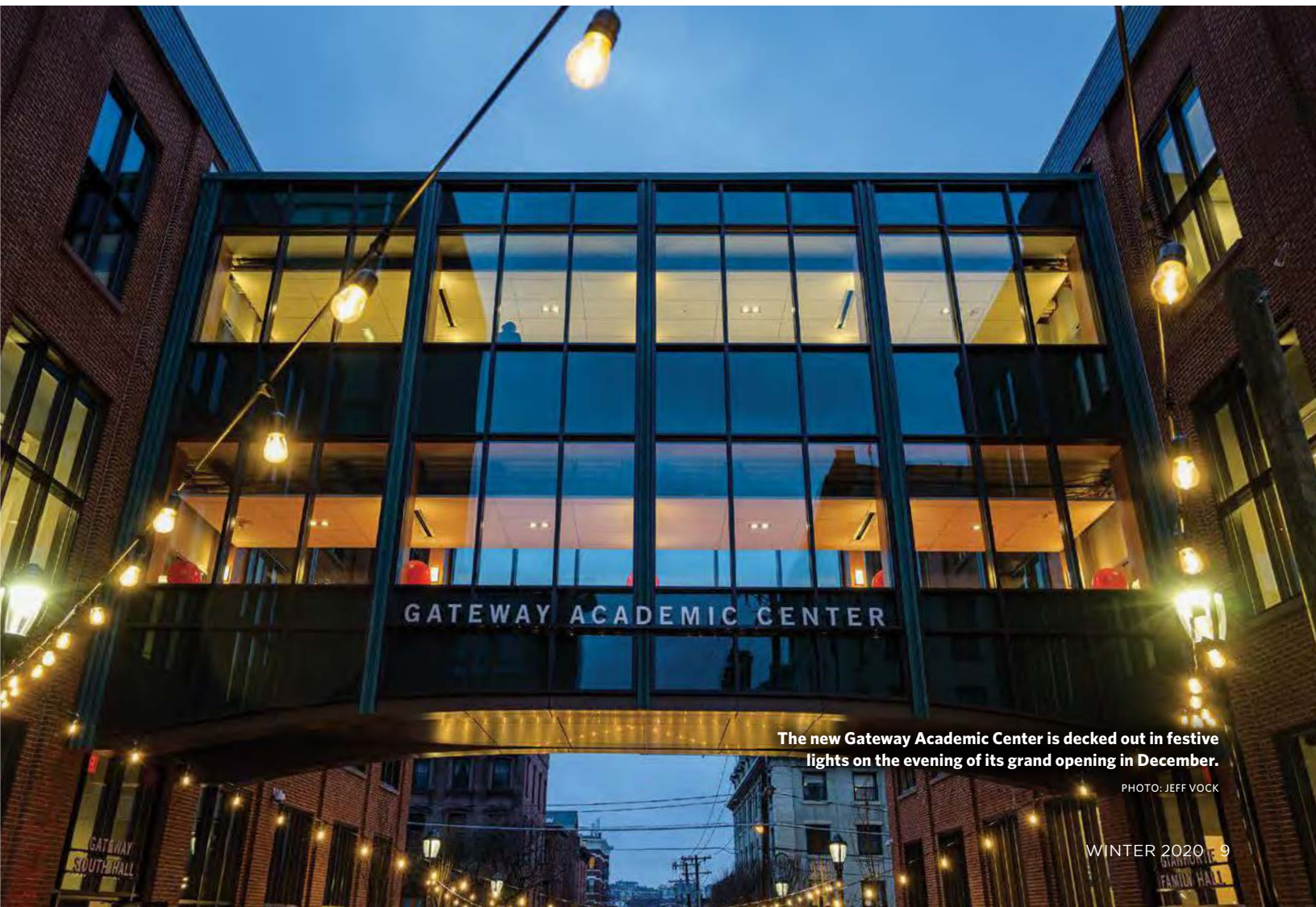
The Center features many comfortable common areas that have become popular with students, including this space outside the PROOF Lab.

©KAT KENDON/KENDON PHOTOGRAPHY

Gateway to the FUTURE

STEVENS' NEW ACADEMIC CENTER OPENS

On December 10, Stevens celebrated the opening of the Gateway Academic Center, a \$68 million, 89,500-square-foot, premier teaching and research facility. The building — which includes ten smart classrooms, 13 labs, 45 faculty offices and numerous student study spaces, funded by more than 20 donors — is part of a broad campaign that began five years ago to modernize the university's infrastructure, creating a vibrant campus for teaching, research, learning and living. "Today, we have a showpiece, a modern state-of-the-art facility where faculty will draw inspiration and develop new innovations that will improve the human condition," said Stevens President Nariman Farvardin. "Many generations of students will realize their potential here, and alumni will feel pride in the transformation of their alma mater as a technology powerhouse." Here, we share an early glimpse of Gateway as the community begins to utilize this versatile space. ❖



The new Gateway Academic Center is decked out in festive lights on the evening of its grand opening in December.

PHOTO: JEFF VOCK



©KAT KENDON/KENDON PHOTOGRAPHY

Above: The Prototype Object Fabrication Laboratory (PROOF Lab) has a new home inside Gateway. **Below:** This lecture area — seen at the center's grand opening — features stairs named for Rosa and John Hovey '57.



PHOTO: JEFF VOCK



This study area seamlessly connects with Carnegie Laboratory, melding the historic building's brick exterior with Gateway's modern interior.



PHOTOS: © KAT KENDON/KENDON PHOTOGRAPHY



Above: A skybridge — with rows of windows — connects the north and south ends of the building.
Below: These "diner-style" seating spaces are among the many unique study areas inside Gateway.



Change Agent

THE LIFE AND LEGACY OF CHARLES STEWART MOTT

He was born ten years after the assassination of Abraham Lincoln and died four years after man first walked on the moon. The 97-year life of Charles Stewart Mott, Stevens Class of 1897, Hon. D. Eng. '37, was most extraordinary — as was his impact on the world that continues today. The General Motors mogul — he was a 60-year board member who sold his wire wheel and axle manufacturing business to GM — founder of the Charles Stewart Mott Foundation and three-time mayor of Flint, Michigan, is the subject of a recent biography, *The Life of Charles Stewart Mott: Industrialist, Philanthropist, Mr. Flint*, by Edward Renehan (University of Michigan Press). The Rhode Island-based biographer spoke with *The Indicator* about one of Stevens' most illustrious alumni.

Q. In reading your book, one never gets the sense that Mott was driven by money or material comforts. Throughout his life, he seemed to be in a constant state of restlessness. To what do you attribute that?

A. The thing that drove Charles Stewart Mott was excellence in all things, including technical excellence. He would think: "OK, this is great — how can we make it better?" He reminds me of the mindset at Apple. He was deeply involved in the evolution of GM for 65 years and was its longest-serving board member. By 1916, his fortune was made, and he could have gone away, but he didn't. He had such a passionate work ethic. In 1926, he established the Charles Stewart Mott Foundation. And up until 1972, near the end of his life, he was going into work at the Mott Foundation every day.

Q. Mott gave away the majority of his GM shares to his foundation during his lifetime. Today, his foundation has given grants in excess of \$3 billion, in the areas of education, the environment, civic society and in Mott's adopted hometown of Flint, Michigan. Was Mott an influence for today's philanthropists as well as his contemporaries?

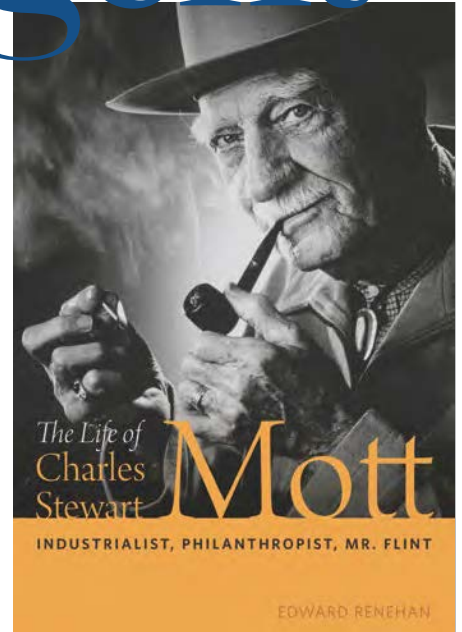
A. The Mott Foundation may well have inspired Bill Gates. And Mott was a direct influence on Alfred P.

Sloan in establishing his foundation. (Sloan and Charles Kettering were Mott's contemporaries at the head of General Motors; Memorial Sloan Kettering Cancer Center is one of the shining achievements of Sloan's foundation.) Mott's daughter, Maryanne Mott, recalled her father telling his children: "You are not better than anyone else, you are luckier than anyone else." None of his six children had to do anything with their lives if they didn't want to. But they all have been deeply involved in good work inside and outside of the Mott Foundation. The Charles Stewart Mott Foundation is just an astounding organization. I cannot speak more highly of it and the people who work there — in Flint and around the world.

Q. The Mott legacy can be seen in industry, education and so much more, but its history is also tied to Flint, which today is a poster child for government malfeasance and toxic water. What would Mott think of the current situation, and how would he approach the crisis?

A. He would be outraged, and he would want people to go to jail for malfeasance. Mott would also look at how to fix the problem in the most efficient and quickest manner. He would think how engineers could remedy

▶ To read the full Q&A, visit stevens.edu/mott/biography



this. And he would adjust the political landscape to fix this problem, especially because it greatly affects children. Flint is a wonderful town. It has this huge black eye. Despite the water issue, it has terrific, civic-minded citizens and is a city on its way to a great revival.

Q. As a young man, his curiosity for how things worked made him a good fit for Stevens. How did he view his time at Castle Point?

A. After graduation, for the rest of his life, Mott was engaged with Stevens. He was on the Stevens Board of Trustees for many years and donated the Mott Field House. He attributed his frame of mind — his interest in innovation — to the training that he got at Stevens. Also, his analytical approach to all things — studying everything as a system, whether it was a carburetor for a Buick or a system for energizing troubled schools. He felt that Stevens very much made him. And some of his closest friends throughout the years were his friends from Stevens. ♦

CELEBRATING 150 YEARS, CELEBRATING YOU.

Stevens Institute of Technology will celebrate its 150th anniversary beginning in February 2020 and continuing through the 2020-21 academic year. Alumni are the greatest indicators of the university's success over the last 150 years — so it seems an appropriate time to consider who are Stevens' alumni, and what does their collective character say about the university today?

There is no prototypical Stevens alum. Each of the thousands of students who have walked Castle Point since 1870 have been thoroughly individual; pursuing different fields of study, different careers and different ways of life. The Stevens legacy can't be fully quantified in research grants, patents, awards or C-suite positions, but rather by the way Stevens alumni have learned to think.

You are united by the ideals of **passion, purpose** and **growth**.

YOU ARE PASSIONATE in the exploration of ideas and in solving some of the world's most complex problems. You ask "what if..." in the face of complacency and commit intensive effort to achieve excellence.

YOU LIVE WITH PURPOSE, committed to diverse personal missions with long-term strategic vision.

YOU SEEK OPPORTUNITIES FOR GROWTH and learn through experience. You encourage the curiosity of the next generation by sharing your knowledge and insight.

Throughout this sesquicentennial year, Stevens invites you to join in celebration of our unique community, our powerful legacy and our promising future.

Reminisce on our storied history and learn about exciting upcoming events by visiting **Stevens150.com** (launching on Founder's Day, February 15, 2020). Want to join the conversation? Tag your Facebook and Instagram posts with **#Stevens150** for a chance to be featured on Stevens social media. ❖

150
STEVENS

A photograph of three young adults standing on a rooftop with a city skyline in the background. On the left is a young woman with long brown hair wearing a yellow polka-dot dress. In the center is a young man with dark hair and a goatee wearing a dark red button-down shirt. On the right is a young man with dark hair wearing a light blue button-down shirt. The background shows a dense urban landscape with various skyscrapers under a clear sky.

Opportunity

Clark Scholars

Some A. James Clark Scholars enjoying the New York City views from the Stevens campus, from left, are Sarah Kuptchik, Adrian Garcia, Michael Botros, Caroline Corr, Kaitlyn Sharo and Cory Philippe.



Unlocked

see their dreams within reach

Putting Dreams Within Reach

Removing financial barriers and opening doors to unique learning opportunities, the A. James Clark Scholars Program forever changes students' lives

“Great minds are in all kinds of racial and socioeconomic communities. It is our responsibility to identify and nurture that talent,” Stevens President Nariman Farvardin told a New York City higher education audience in September 2019.

He might have also mentioned that Stevens reached a significant milestone on the way toward that goal in fall 2018 when the university welcomed its first cohort

of A. James Clark Scholars, as part of the Stevens incoming undergraduate class of 2022.

Now in their second year at Stevens, this talented group has experienced a great deal already. They’ve adjusted to college life and a rigorous technology-based curriculum, have worked with faculty, staff and student mentors, embraced leadership roles in organizations on campus, in some cases

traveled abroad for the first time and even participated in graduate-level research.

“The opportunities and new experiences that come with being a Clark Scholar made the transition from high school to college the best transformation I ever went through,” said Stevens sophomore and Clark Scholar Michael Botros.

The enrollment of Botros and the other 22 inaugural Clark Scholars, many from groups traditionally underrepresented in science, technology, engineering and mathematics (STEM), was made possible by a historic \$15 million investment from the A. James & Alice B. Clark Foundation, launching the A. James Clark Scholars Program at Stevens in 2017.

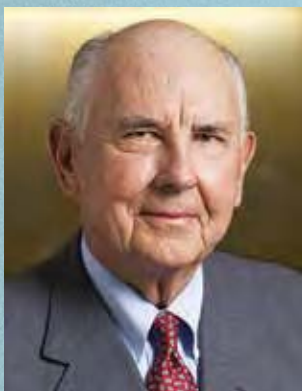
That event marked Stevens’ membership in an exclusive group of top universities selected to implement the Clark Scholars Program, including Duke, Johns Hopkins, the University of Virginia, the University of Pennsylvania and Vanderbilt.

The Clark Scholars themselves are among some of the university’s most outstanding and promising students.

The invitation-only Clark Scholars Program considers applicants with significant need and who are pursuing an engineering, computer science or cybersecurity degree. But they must also demonstrate the highest caliber of academic achievement and a passion to make a difference in society.

Each scholar receives a considerable aid package to finance his or her Stevens

ABOUT A. JAMES CLARK



A. James Clark won a much-needed scholarship that enabled him to earn an engineering degree from the University of Maryland in 1950. He never forgot the generosity he had received. This self-made man formed Clark Construction, one of the nation’s largest general building contractors, which transformed the landscape of Washington, D.C., with projects such as the Walter Reed National Military Medical Center and the National Museum of African American History and Culture. He built big league sporting facilities, transportation systems, higher education

projects and convention centers across the country. But Clark and his wife, Alice, also built opportunity for hundreds of thousands of people through the A. James & Alice B. Clark Foundation. The foundation helps those who work hard and who have an inner drive to succeed to achieve their dreams, like Mr. Clark, whether they are talented, hard-working college students in financial need, or schools, community organizations, cultural institutions and veterans groups serving others.

education over four years, substantial stipends to support research and international experiences for up to three undergraduate summers, as well as access to seminars on business, leadership, and ethics, and cultural and service opportunities.

Additionally, the Clark Foundation's investment toward nurturing the next generation of STEM talent extends to providing high school students with an immersive college experience before it's time to apply to colleges. This past summer, the foundation fully funded 26 high school students from Washington, D.C. to attend Stevens' Pre-College Program.

The Clark Scholars Program's impact on the university's ability to recruit the best and brightest students became immediately apparent from enrollment data in 2018, the first year that included Clark Scholars.

The number of underrepresented students enrolled in that freshman class increased by 43 percent, making the Stevens Class of 2022 the most diverse in the university's history; Stevens has since welcomed 11 new Clark Scholars in fall 2019.

But the value of having a diverse student body goes beyond stats and figures, according to Marybeth Murphy, Stevens vice president for enrollment management and student affairs.

"The more students learn about and interact with students from different backgrounds, they become better global citizens," said Murphy.

On a more personal level, the magnitude of the Clark scholarship is nothing short of life altering for scholarship recipients like Adrian Garcia.

"[My mom] had a lot of worries about how we would be able to afford my schooling and if I would even be able to attend a school like Stevens. Needless to say, the scholarship is an enormous blessing for me and my family," said the Stevens sophomore.

The Indicator recently caught up with six members of the inaugural Clark Scholars class this past fall, one year after they entered Stevens. Read their stories starting on page 18. ❖ — *Young Soo Yang*

\$15 Million

A. JAMES & ALICE B. CLARK FOUNDATION INVESTMENT



3 AREAS OF STUDY: ENGINEERING, COMPUTER SCIENCE, CYBERSECURITY

3.5 GPA

AVERAGE GPA
(FIRST COHORT,
ACADEMIC YEAR
2018-19)

2018

YEAR CLARK SCHOLARS
ENTERED STEVENS



NUMBER OF CLARK SCHOLARS: 33

10

SCHOOLS WITH CLARK SCHOLARS PROGRAMS:
Duke, George Washington, Georgia Tech, Johns Hopkins, University of Maryland, University of Pennsylvania, Stevens Institute of Technology, Vanderbilt, University of Virginia, Virginia Tech

Cory Philippe '22

When Cory Philippe received a letter announcing his admission to Stevens and a scholarship award from the Clark Scholars Program, he knew that no one would appreciate the full import of that letter more than his mother.

“She was so happy for me, and proud.”

Growing up, he witnessed his mother attain an advanced degree in nursing later in life through perseverance and hard work.

“My mother has always been my greatest role model. She had to work hard her whole life,” Philippe said, noting that his mother had few, if any, educational opportunities when she was his age.

“She didn’t have the advantages that I have now. Seeing what she had to go through in getting her degrees I really understand what being a Clark Scholar means for my future in terms of career and education,” the Elizabeth, New Jersey, native remarked.

A scholar-athlete, the Stevens sophomore is a member of the university’s men’s cross-country and track and field teams.

As for what he plans to do with his education, Philippe’s fascination with all things space, much of it fueled by watching a lot of science documentaries as a kid, is a major influence.

“I was always mesmerized by things that go far outside our solar system, like the Voyager space probe,” he revealed.

Hoping to one day work at NASA, or for one of the titans in the aerospace industry — Boeing, SpaceX or Lockheed Martin — Philippe is majoring in mechanical engineering, holding off aerospace engineering possibly for graduate school.

While he has time to make that decision, a research experience he gained this past summer, thanks to a stipend

from the Clark Scholars Program, put his post-graduate plans into sharper focus.

Working closely with systems and software professor Steven Hoffenson and Ph.D. student Brian Chell, Philippe examined the multi-disciplinary design optimization of an aircraft model.

In the process, Philippe saw what life as a graduate student might really be like, experiencing for himself both the highs and lows. It was an eye-opening experience for someone with just one year of undergraduate study.

“One of the most important parts of being a graduate student I learned is to produce a paper after finishing a research assignment,” noted Philippe, who may soon see his own name on a journal publication for the first time.


The team’s findings from their multi-fidelity optimization comparison study were submitted for publication in the *Journal of Mechanical Design*, revealed Hoffenson, who praised Philippe’s contributions to the team effort.

“This is a rare accomplishment for an undergraduate student researcher,” Hoffenson noted.

“As we continue to work together, we are planning some extensions that will hopefully result in one or more publications.”

As for Philippe, who continues to work on the project under Hoffenson’s guidance, the experience cemented his desire to continue his education after graduation.

“Working with Professor Hoffenson and Brian was incredibly rewarding in terms of my development at Stevens and encouraged me to go forward and earn a master’s degree after college,” he shared. ❖ — *Young Soo Yang*



Cory Philippe, with images of aircraft models he worked on during his research at Stevens.

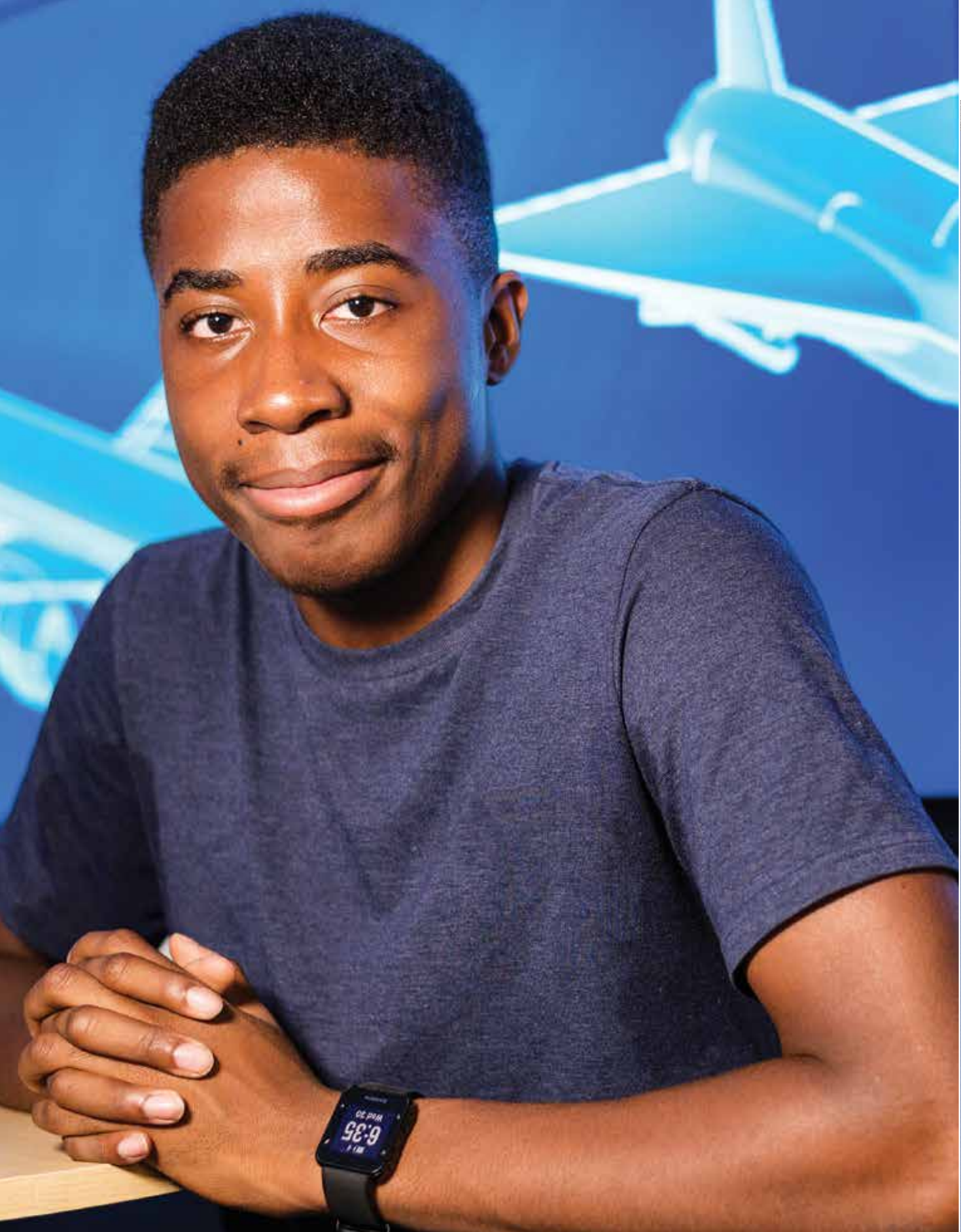


PHOTO: JEFF VOCK

Caroline Corr, during her co-op experience at Weiss-Aug in Fairfield, New Jersey.

PHOTO: JEFF VOCK



Caroline Corr '23

It's no surprise that Caroline Corr is a distance runner. This Stevens scholar-athlete has the grit and determination that would make A. James Clark proud.

While still a high schooler, the math and science whiz discovered biomedical engineering and was soon shadowing engineers at a biomedical engineering firm near her hometown in Haverstown, Pennsylvania. Her other love was community service, and this led her to the Navajo Nation, where she worked with St. Mary's Mission in Tohatchi, New Mexico. And this was all before she ever stepped foot on Castle Point.

Today at Stevens, the biomedical engineering major and Clark Scholar is just beginning to make her mark. Last summer, she explored a totally different field — homeland security-focused research through Stevens' Maritime Security Center's Summer Research Institute. And this fall, she ran her second season of cross-country for the Ducks and tackled her first co-op job in Fairfield, New Jersey, with the Surgical Products Division of Weiss-Aug, which offers high-precision metal stamping, insert molding and assembly.

Like some other Clark Scholars, Corr is a first-generation college student who understands well that she has been given a privilege and a responsibility.

"My parents instilled in me from a young age, 'To much is given, much is expected.' They worked hard and sacrificed to give me and my three younger siblings the best education possible," she says. "They always stressed the importance of faith and a good education."

But as much as she loved Stevens at first sight, she didn't think it was financially possible to attend, especially being the oldest of four children.

She applied anyway, and when the letter came naming her a Clark Scholar — with significant financial support — she saw her future.

"I cried, my mom cried, everyone was crying, I loved the school so much," she says.

"It's more than the money. It's striving to embody who Mr. Clark was — his drive, his motivation, his willingness to face difficulties and giving back to the community. It's a great example to live by."

So far, her community service — an important component of the Clark Scholars Program — has seen her volunteer as a mentor with the Hoboken Boys & Girls Club with her cross-country teammates. Corr, who also runs track for Stevens in the spring, has

"It's more than the money. It's striving to embody who Mr. Clark was — his drive, his motivation, his willingness to face difficulties and giving back to the community. It's a great example to live by."

also volunteered with the Hoboken Shelter and hopes to use her Clark summer stipend for a service trip abroad in the future.

Last summer, the Clark Scholarship allowed her to do research she normally would never experience.

Corr and a team of students from Stevens and other schools across

the U.S. participated in the Summer Research Institute, through Stevens' Maritime Security Center. Corr and her team worked with Stevens Professor Jeff Nickerson to design and develop a computer game to mirror how the synthetic opioid fentanyl is illegally imported into the United States. (See story on the SRI on page 34.)

"It was an eye-opening experience to what the rest of the world is like," Corr says. "I was also able to see the computer engineering side. I think that gaining different perspectives is a very important aspect of education."

This fall, Corr achieved another goal by landing the co-op job with manufacturer Weiss-Aug. There, she helps to inspect and prepare surgical product parts for prototyping and helps ensure quality. The company, which counts 12 Stevens alumni and co-op students at its Surgical Products Division, has given her real hands-on experience, she says.

"To be able to have a real impact; it's been amazing. I learn something new every day."

Corr hopes to remain in the biomedical field, someday helping patients by whatever means her career takes her.

"My goal in life is to wake up every day fulfilled," she says. ❖

— Beth Kissinger

Michael Botros '23

Michael Botros has dreamed of becoming an aerospace engineer since he was five years old.

“I feel like humans should be able to travel into deep space or have airplanes that can travel twice or three times the speed of sound in the future,” he says.

That desire to help shape the future is what motivates this Clark Scholar at Stevens.

With an eye toward working at a company like Boeing, Lockheed Martin or GE Aviation, the East Rutherford, New Jersey, native is pursuing a degree in mechanical engineering with a concentration in aerospace engineering.

“With a broader degree like mechanical engineering I’ll be able to work in a lot of areas right out of school, allowing me to build the necessary experiences that I can later apply in the aerospace industry.”

Gaining industry experience was the primary reason why Stevens was Botros’ top choice for college.

“There are so many reasons for choosing Stevens. But definitely, the co-op program and proximity to New York City were the two most important for me. And the Clark scholarship just made it a very easy decision.”

He experienced his first co-op at New Line Structures this fall, commuting daily to the firm’s Brooklyn, New York, office where he managed and coordinated permits and drawings for the construction management company. There, Botros contributed to a major project: 85 Jay Street, a 21-floor residential development in Brooklyn’s DUMBO neighborhood, scheduled to open in mid-2021.

New Line isn’t Botros’ first foray into construction. He is quite adept at putting up dry wall and installing insulation,

skills he acquired through his community work with Habitat for Humanity.

“I got involved with Habitat for Humanity in high school and continued at Stevens. I love these opportunities to help provide more affordable housing. It shows what can be achieved when people work together toward a common goal.”

Another setting where Botros thrived as a team member was in faculty-guided research under noted Stevens professor EH Yang.

Over the summer, Botros opted to apply his \$5,000 Clark Scholars stipend to work with Yang and his Ph.D. students on leading-edge research into nanomaterials.

“The main reason I chose this research was to build a connection with Professor Yang, who was a NASA engineer,” he says.

But the experience became much more than a networking opportunity as Botros saw the potential impact of Yang’s research firsthand.

“I found out through this research that there’s a lot more to nanomaterials beyond researching and finding out which materials work best. It’s amazing how something small on a microscale can change the entire macroscale. Even mechanical engineers will work on nanomaterials sometime in their careers.”

As Botros looks forward to new co-op experiences and learning opportunities, he looks back on his first-year experience with a mixture of relief and gratitude.

“The transition from high school to college was definitely a learning curve. You have more responsibilities, but also more opportunities. Getting to know my peers and adjusting to the college culture was life-changing, to say the least.” ❖

— Young Soo Yang





Michael Botros on site at 85 Jay Street in Brooklyn, New York, during his co-op job with New Line Structures.

PHOTO: M. COOPER



Sarah Kuptchik works on circuits inside a Burchard Building laboratory at Stevens.



Sarah Kuptchik '22

"As soon as I got to Stevens, my parents said to me, 'Oh, you found your place,'" recalls Sarah Kuptchik.

The Madawaska, Maine, native has indeed found her place at Stevens, both academically and personally.

Watching her mother study to become a nurse, Kuptchik's decision to study biomedical engineering was years in the making.

While in high school, Kuptchik worked part-time at the nursing home where her mother cared for patients.

"I would pass out snacks and spend a lot of one-on-one time with residents, some who were suffering from Alzheimer's disease. It's what got me

interested in neuroscience and medical devices for the brain."

Had it not been for the Clark Scholars Program, Kuptchik says she would have stayed in Maine and majored in chemical engineering, an in-demand major for the dominant pulp and paper industry there.

study international business and, to satisfy her artistic side, British horror films.

"Taking a humanities course in an immersive setting and learning about international business alongside students from countries like China, Thailand, Iraq and Kosovo was so enriching and be-

"Taking a humanities course in an immersive setting and learning about international business alongside students from countries like China, Thailand, Iraq and Kosovo was so enriching and beyond what I thought I could get to do."

"Where I come from, the local schools have programs that offer full tuition scholarships to major in chemistry and do co-ops in pulp and paper," she explains.

"I don't think I would have been happy doing chemical engineering, but with biomedical engineering I would have had to take out loans."

The Clark Scholars Program, she says, opened up opportunities and career paths that she once thought were off limits to her.

"To be able to pursue my first choice major at a school like Stevens and even consider graduate or medical school is something that's all possible now."

The Clark Scholars Program has also allowed Kuptchik to step outside of her major and broaden her undergraduate experience. Kuptchik used her Clark Scholars stipend to travel to London last summer to

Inset: A stipend from the Clark Scholars Program enabled Kuptchik to study in England last summer. Here, she visits the Mayfield Lavender farm outside London.

yond what I thought I could get to do."

What's next for Kuptchik?

"Next summer I want to stay in Hoboken and participate in research in biomedical engineering or something medical-related. I also want to do an internship after my junior year."

When Kuptchik is not in class or studying, chances are she's engaged in a service activity.

She is the community outreach chair for the national service fraternity Alpha Phi Omega (APO), a member of the Stevens chapter of Active Minds, a national mental health advocacy group, and is participating in a student-run project to develop 150 STEM projects for local area pre-K-to-12 schools in celebration of Stevens' 150th anniversary in 2020.

"Community service is my passion and something I put a great deal of time and energy into," she says.

"As with anything rewarding, you get out of it what you put into it." ❖

— Young Soo Yang



PHOTO COURTESY OF SARAH KUPTCHIK

Kaitlyn Sharo '22

Kaitlyn Sharo pretty much had her mind set on where she was going to pursue a cybersecurity degree and career — at a university close to her home in Odenton, Maryland.

That is until she received her acceptance letter from Stevens and the award of a Clark scholarship.

It was the last acceptance letter Sharo received out of the nine colleges she applied to; some came with impressive scholarship awards of their own. One scholarship in particular would have allowed Sharo to double major in music, not an insignificant factor for the accomplished pianist.

But the chance to become a Clark Scholar tipped the scale heavily in Stevens' favor, Sharo says.

"As I was scrolling down the letter and saw all the information about the Clark Scholars Program, I pretty much knew immediately that Stevens was where I wanted to go."

Stevens' prime location near New York City was definitely a factor, she says. But, more importantly, it was the quality of the university's cybersecurity program.

"I only applied to schools with cybersecurity programs because I didn't want to do just computer science. And Stevens had a more established and renowned cybersecurity program than any of the ones I saw in my research."

Sharo hasn't regretted "for a second" her decision to come to Stevens. She's thriving academically, quickly absorbing new skills and excelling at them.

"I was a teaching assistant for Intro to Computer Science last semester and again this semester. It's something that I really enjoy doing."

But the classes that Sharo relishes the most are ones that tap into her love of "puzzles," like Intro to IT Security.

"There was a lot of cryptography involved in that class. We were actually given codes that we had to decrypt. And that has definitely been my favorite assignment at Stevens so far," she says.

Over the summer, Sharo gained research experience with professor Samantha Kleinberg, a computer scientist at Stevens whose federally-funded research focuses on artificial intelligence and big data in the diagnosis, treatment and prevention of diseases.

"It was an eye-opening experience into conducting research at the highest level," Sharo says.

"A lot of her students were graduate students who were used to reading an academic journal every week, which was something really new to me. But [Professor Kleinberg] would actually take the time to explain things so I could understand the articles we were reading. I couldn't have asked for a better professor to research under." (*Read more about Kleinberg's research on page 37.*)

Next summer, Sharo plans to find herself far from home and Stevens.

"I want to do study abroad more than anything. It was one of the main points that stood out to me about the Clark Scholars Program."

Participating in study abroad would also allow Sharo to flex her impressive piano skills. She played piano for 14 years, competing locally and nationally. A member of the National Guild of Piano Teachers, she won a scholarship for having achieved one of the top five scores in the nation among Guild members.

"If I were able to do a study abroad it would open up my schedule for the rest of my time here to do a music minor, which is something I really want to do." ❖

— Young Soo Yang

Kaitlyn Sharo is an accomplished cybersecurity student and pianist.

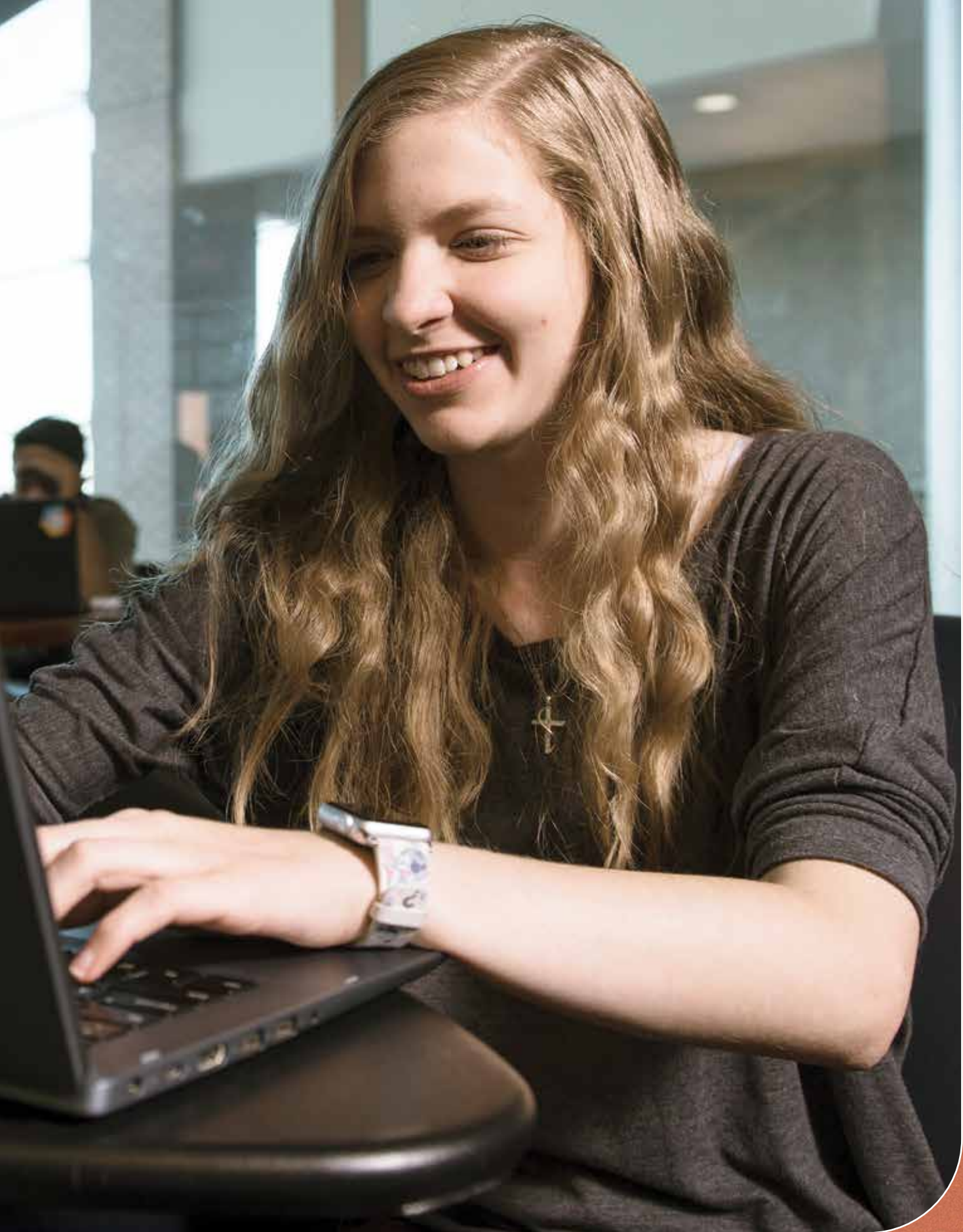


PHOTO: M. COOPER

Adrian Garcia is shown at his co-op job with Movado Group, Inc. in Paramus, New Jersey.

PHOTOS: JOHN O'BOYLE



Adrian Garcia '23

In high school, Adrian Garcia showed a natural ability in science and mathematics, especially when he was tested in the lab.

"I always loved the hands-on projects. It was fun learning about things like electromagnetism and the components of a circuit such as resistors and capacitors, and then putting that knowledge into practice with an actual circuit board."

Garcia's abilities led his physics teacher to suggest that he consider engineering as a possible career.

The Paterson, New Jersey, native took the suggestion to heart.

"What I like most about engineering is the creative aspect that allows for different approaches and decision-making in solving a real problem," he says.

Given Garcia's academic credentials and talent for problem-solving, it's no wonder that Stevens extended an offer he couldn't refuse.

"Stevens was my top choice, but without the Clark scholarship I wouldn't be able to attend Stevens."

From the moment he arrived on campus, Garcia engaged with the Stevens community with gusto, taking advantage of every learning and mentoring opportunity that came his way.

He formed personal relationships and a professional network through joining club volleyball, the Latin American Association and Society of Hispanic Professional Engineers (SHPE); he attended his first SHPE national convention in Phoenix in November.

Last summer, he traveled abroad for the first time to study in Costa Rica, thanks to support from the Clark Scholars Program. He also decided on software engineering as his major, with encouragement and guidance from faculty and upperclassmen.

And this past fall, he began a co-op

position at watchmaker Movado's corporate headquarters in Paramus, New Jersey, where he works with the supply chain group.

"I was actually scared that I wouldn't get a co-op after my freshman year, but the Stevens Career Center was a great help in landing that first co-op, which is the hardest to get. I gained a lot of professional experience from my time at Movado. I'll be able to build on that experience going forward into my next co-op."

Along with adding to his resume, Garcia is looking forward to more new experiences while at Stevens, many that will be made possible thanks to the Clark Scholars Program.

"Costa Rica was amazing. I definitely want to use my Clark Scholars stipend to study abroad in at least one other destination. I also want to use my stipend to do a research opportunity one summer. And I always jump on the cultural passport whenever there's an event. We just came back from a Hudson River cruise; we've also gone to Broadway shows and done some really cool stuff."

More importantly, Garcia, the oldest of four, wants to set an example for his siblings.

"I grew up in a community where a lot of kids feel trapped by their circumstances and don't reach for much. It's important for me to make the most of my opportunities here to show my brothers and sister what they can strive for." ❖

— Young Soo Yang

Inset: Garcia meets with Movado colleagues, from left, business analyst Matthew Miller '19 M.S. '19 and Harvey Driansky, senior vice president, value chain and business development.





NEW SOUNDS

Blending Art And Technology
At Nokia Bell Labs

The headquarters of Nokia Bell Labs sits on a sprawling campus in Murray Hill, New Jersey, where engineers and scientists have made more advancements than can possibly be listed. The company's extraordinary nine Nobel Prizes speak to the momentous progress they've made within science and technology though, and to this day, the institution leads the way in telecommunications, 5G networking, industrial automation and more. It's also here where one Stevens alumna finds herself working in the most human of fields: the arts.

Once a music and technology student, Danielle McPhatter '18 now works as a researcher within Nokia Bell Labs' Experiments in Art and Technology (E.A.T.) Lab. In this role, she collaborates with more than two dozen artists, acting as a translator between them and the company's engineers. This means that McPhatter's everyday responsibility is to bolster artistic vision with the world's most cutting-edge technology.

"It's really a bidirectional feedback between the artist and the en-

gineer," notes McPhatter, as she describes how E.A.T. operates. By connecting these professionals, E.A.T. strives to humanize technology and create immersive experiences that far exceed the spoken or written word. The research vision is to develop new ways for people to emotionally connect and to forge deeper understandings across humanity. Therefore, artists are brought on for short-term collaborations or artist-in-residence programs, the latter lasting one year or more to maximize meaningful exchanges across disciplines.

"The artist walks away with so much more scientific, technical knowledge about what their options are and how big their universe can expand in terms of expression," says McPhatter. In turn, engineers discover new uses for their technology, giving them novel directions to explore. "That's been a really good ecosystem when it comes to developing a lot of the technology that we actually have in house."

Consequently, McPhatter often finds herself working with artists in rather avant-garde spaces. To start, there's the antechamber, a room lined with speaker after speaker, enveloping those who visit in



Danielle McPhatter '18, a researcher with Nokia Bell Labs, inside the company's anechoic chamber. **Inset:** McPhatter at work in the antechamber.

PHOTOS: JOHN O'BOYLE

sound. Then there's its opposite, the anechoic chamber, which was once the quietest room on Earth.

Completed in 1947, the space is lined with fibreglass wedges, and cement and brick make up its outer walls. The room is quiet — very quiet — and McPhatter jokes that visitors can hear their own biology. The swish of a tongue, the pop of a knuckle, sometimes even a heart-beat, they all become audible when the room is prepared for absolute silence. Doing so takes a bit of prep and involves shutting a massive half-cylinder door and turning off all the lights. This leaves visitors feeling as though they are floating in space, floating in silence, floating in darkness. The absence of sensorial stimulation can be unnerving at first, but over time, an artist can use the sensation to focus on a thought or explore their imaginations.

Recent experiments within these spaces have used the Sleeve,

 **To view videos of McPhatter's work, visit [stevens.edu/NewSounds](https://www.stevens.edu/NewSounds)**

a piece of wearable technology that enables users to control the spatial elements, volume and timbre of sound simply by moving their arm. "This is a very exciting step for us in the world of new musical interfaces and embodied instruments," says McPhatter. "To augment the performer by transforming any instrument into an extension of the body gives us a natural and more intuitive way to control sound and our immersion in it."

These rooms are playgrounds for creative thinking and performance, and connecting artists with these experiences has become a real passion for McPhatter. "My goal is always to make the thing I develop or create to be as flexible as possible for artists' expression," says McPhatter. "At the end of the day, it's not about the technology, it's about the piece of work that comes out of the technology."

Working with Stevens' assistant professor of music and technology and E.A.T.'s artist-in-residence, Lainie Fefferman, was the first time McPhatter felt truly connected with this work. As a Nokia Bell Labs intern, McPhatter helped build a multichannel live-streaming network, which allowed Fefferman to turn audience members' phones into speakers during her performance "White Fire," an electroacoustic reflection on heroines from the Hebrew Bible held in Brooklyn's Issue Project Room.

"Seeing the output of that for the first time live in this performance that she did was just like, 'Wow,'" says McPhatter. "Damn, that really works."

At Stevens, McPhatter built a technical skill set spanning music production, game design and computer science, allowing her to excel within these projects. Yet, this academic and professional direction was unexpected. After studying music composition and theory at Newark Technical Vocational High School, the Irvington, New Jersey, native thought she'd study software instrument design and eventually create songs for children's shows and video games. But taking a few technology classes in Stevens' College of Arts and Letters completely changed McPhatter's planned course.

Her own art began evolving, and by senior year, she had two pieces that drew people's attention. Presented at Vault Allure, a music and art festival in Jersey City sponsored by Nokia Bell Labs, the first project allowed users to manipulate a virtual sculpture and its audio output just by moving their hands over a sensor. The other, titled "Bicycling Through Childhood," encouraged users to strap on a virtual reality headset and straddle a bicycle, making them pedal through a rendered neighborhood. McPhatter knew these projects would push her technical limits, but her professors encouraged her to keep moving forward, knowing her drive would carry her over any hurdles.

This lesson sticks with McPhatter to this day. "I'm definitely one to have an idea, then figure out how to do it afterwards," says McPhatter. "I try and be as ambitious as possible, because a lot of what drives me to want to do these projects is just pure passion." ❖

— Connor Durkin

GOING THE DISTANCE

SUPERSTAR RUNNER, GARMIN MANAGER CHASES OLYMPIC GLORY

She captured an astounding six national championships for cross-country and track and is one of the greatest athletes ever to have walked the Stevens campus. But Amy Regan '17 never dreamed of Olympic glory.

Then she recalls that moment back in February 2016. She and her Stevens coach Justin Wood were blazing along the Jersey City waterfront, on one of those early morning runs she loves so much, when Wood said: Four years from today, you'll be at the Marathon Olympic trials racing with the best distance runners in the U.S.

Regan had never run a marathon at that point and didn't even compete in a marathon until this past fall. But this February, Regan will fulfill her coach's promise.

In her first-ever marathon in Moline, Illinois, last September, in the pouring rain, Regan posted a time of 2 hours, 44 minutes and 20 seconds — a time that qualified her for the upcoming U.S. Olympic Team Trials on Feb. 29, 2020, in Atlanta. With up to 600 elite runners predicted to participate, the top three female and top three male finishers will claim a spot on the marathon team and compete for the gold at the 2020 Summer Olympic Games in Tokyo.

When reached by phone in November at her new home, Kansas City, Regan spoke of gratitude. The competitive nature of running, even at this high level, has never held deep intrinsic value for her, she says. But giving her best in every race is her way of expressing her deep appreciation: to Wood, to her family and to everyone who has supported her during her extraordinary athletic career.

"It's completely changed my life," she says of running. "It's a way to say thank you for what running has brought to my life."

And as for the Olympic trials, "it's a culmination of my collegiate career." Because running, Regan reveals, is the "backbone of my life."

Running is indeed the thread that connects many areas of her life, from her volunteer work, friendships — even her career.

Regan works as a program manager with Garmin International, the



Amy Regan '17 at
Garmin's headquarters
in Olathe, Kansas

Olathe, Kansas-based technology company known for its innovative and diverse GPS technology products, from running watches that measure heart rate and blood oxygen level, to wearable maps that locate hiking trails, satellite communicators for campers who want to go off the grid to auto GPS and flight decks for aircraft.

Regan works with the Engineering Business Development team, with a focus on bringing in technology and practices to the company to support new product development. She loves the exposure to exciting technology and how her role helps support pretty much every product Garmin makes.

Her marathon training and high weekly running mileage are an added bonus for helping test a number of Garmin's running watches. The Garmin fenix 6S was her training partner for her first marathon this past year and is essential for helping her prepare for the upcoming Olympic Trials, she says.

"I'm passionate about being on the inside of this innovation... I know the impact of the watch on my wrist," she says.

Working at Garmin is like being at a "30-year-old start-up" where there's great dedication to high-quality engineering and design, she says. The company also aligns with her active lifestyle, with a large fitness cen-



Regan, on a run at the Garmin campus, will compete in the U.S. Olympic Team Trials for the marathon on Feb. 29.

PHOTOS: JAKE MARTIN, GARMIN

ter on campus, yoga classes, and employees regularly running or cycling on their lunch hour.

She loved the company enough to transplant herself from her native New Jersey to the Midwest, which she has come to embrace for its friendliness and accessibility.

“I absolutely fell in love with the company and the culture, the people and the products,” she says of Garmin.

It’s an atmosphere where an elite athlete like herself feels supported, as she trains for the race of her life.

When *The Indicator* caught up with Regan in November, she had just started a training program that involves running 60-80 miles a week. Wood, who now coaches at the University of La Verne in La Verne, California, coaches her long distance, via phone and email.

Regan doesn’t train at a facility and prefers to run on the open road and surprisingly hilly trails around Kansas City.

The Green Brook, New Jersey, native grew up playing soccer, while her mother and brother were the runners in the family. She also played tennis and golf with her father; they were always active. Soccer was her sport in high school — she ran track to keep in shape — but she decided to join the cross-country and track teams at Stevens as a way to make

friends. With Wood as a coach, a love of running fully blossomed and she soared, becoming a national superstar in cross-country and track and a 14-time All-American — with a 3.8 GPA.

The close-knit community at Stevens, and its engineering management program, were a great fit for her. “I never expected the opportunities in my athletics career to unfold like they did. I think that Stevens prepared me to be exactly where I am today,” she says. “No other university could have done that.”

Regan has now fully embraced her new community in Kansas City, coaching young girls through Girls on the Run, a non-profit for girls grades 3-8 that encourages them to participate in community service and embrace a lifetime of fitness.

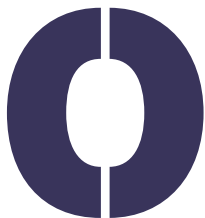
Looking ahead, Regan plans to continue competing on a national level, for as long as she can. At 25, she is considered young for a marathoner. She says she will never stop running.

“The freedom to run on an open road and explore a new city is what I love about this sport,” Regan says. “I just love to run. It’s given my life structure and discipline. To get up every day and get out the door — it’s a commitment to yourself. There’s a special cadence and rhythm to it. It’s calming and therapeutic to me.” ❖ — *Beth Kissinger*



SAFE HARBOR

Student Researchers Assist DHS, Coast Guard



One challenge of working on the water — it refuses to remain still. Luckily, students taking part in the Summer Research Institute (SRI) at Stevens' Maritime Security Center (MSC) are moving quickly, seeking answers to some of today's most challenging maritime and port security issues.

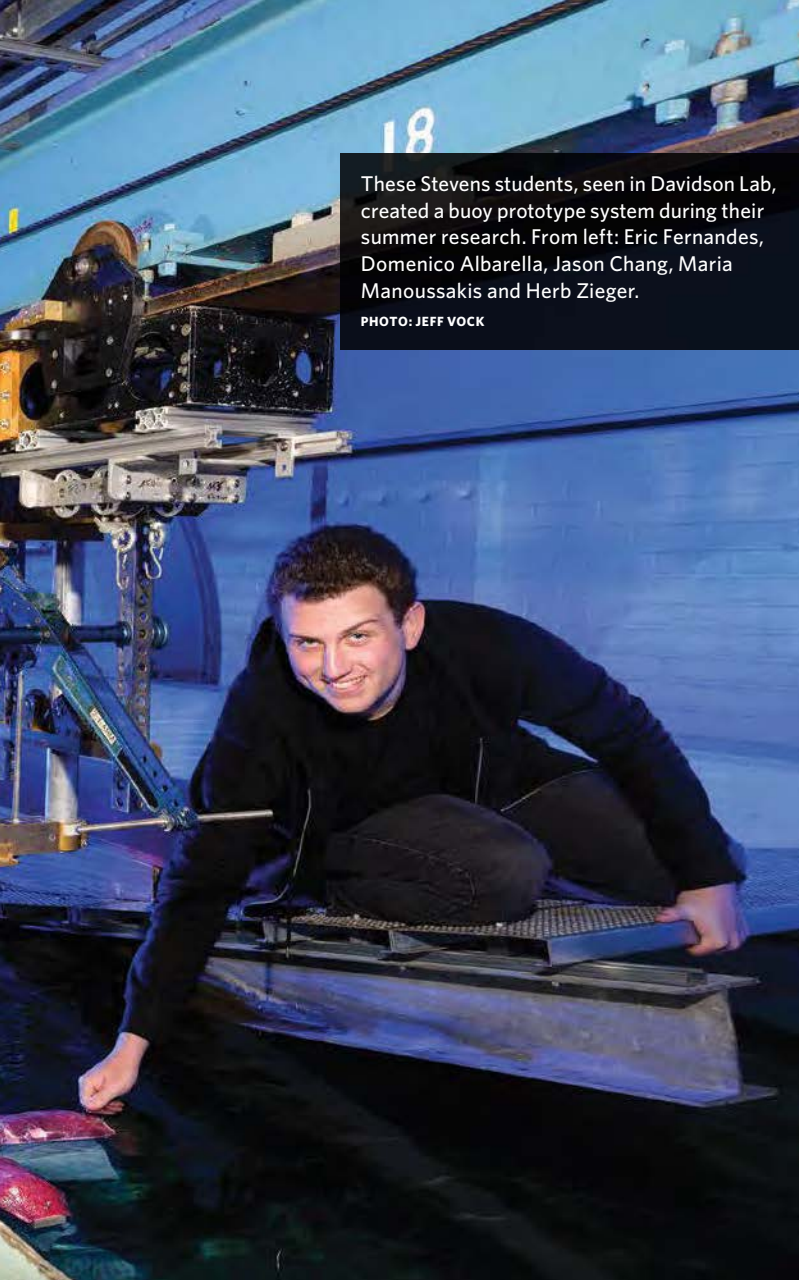
The program celebrated its tenth year last summer, drawing a cohort of 25 students from seven schools: The University of Alaska Anchorage, Virginia Tech, the University of Puerto Rico at Mayagüez, SUNY Maritime College, New Jersey Institute of Technology, the University of North Carolina at Pembroke and, of course, Stevens, where maritime research can be traced to its roots.

Each year, project topics for the eight-week program are devel-

oped in conjunction with Department of Homeland Security (DHS) stakeholders, representing the current needs and interests of the homeland security enterprise. Since 2010, 187 students from 30 universities have completed the SRI program.

"Our goal is to create something that the U.S. Coast Guard or other DHS component agencies can use immediately in accomplishing their challenging missions," says Stevens professor and MSC director Hady Salloum. "We let the students work on their own as much as possible, and we encourage them to take their ideas and efforts to the next level, whether it's a startup or to pursue a patent or commercialization channel."

Here are snapshots of three outstanding projects from last summer.



These Stevens students, seen in Davidson Lab, created a buoy prototype system during their summer research. From left: Eric Fernandes, Domenico Albarella, Jason Chang, Maria Manoussakis and Herb Zieger.

PHOTO: JEFF VOCK

AN UNMANNED AERIAL BUOY SYSTEM

Among the SRI 2019's six projects from last summer, two were continued from the previous year. One of these continuing projects was an unmanned aerial systems (UAS) buoy system — a device that could enable homeland security practitioners to “be” in two places at once.

When a person or object goes overboard, it immediately begins drifting along with the current. By the time military personnel or law enforcement agencies mobilize and reach the last known coordinates of the target, it could be miles away. That time delay could mean the difference between life and death or criminal conviction and exoneration.

But what if a marker could be thrown in the water quickly after such an incident? And what if that marker had the ability to communicate its exact location with recovery teams? The idea behind the buoy is just that — a lightweight self-locating datum marker

buoy, autonomously deployed from a drone, dropping into the water near a person or object's last known location. As the buoy drifts with the current, it follows the target's approximate path.

Such an invention could have wide-reaching applications, including search and rescue, ocean modeling, accident and pollution monitoring and drug interdiction.

The 2019 UAS buoy project picked up where last year's left off. Using the 2018 team's ideas as a springboard, the 2019 team — Stevens undergraduates Eric Fernandes, Herb Zieger, Maria Manoussakis and Jason Chang — spent the first couple of weeks redesigning the buoy and drone release mechanism.

The team would later streamline the release mechanism system.

“One professor that works with aerodynamics and aerial systems said, ‘[The independent release mechanism] is unnecessary. Why make it harder for yourself?’” Manoussakis says. “So, we abandoned that idea and made the buoy the release mechanism.”

Working with Stevens research professor Barry Bunin, the team also found themselves addressing design issues on the fly while immersed in the prototype's assembly stage.

The Summer Research Institute marked its tenth year last summer, drawing a cohort of 25 students from seven schools.

But materials and assembly of the buoy itself posed the team's biggest challenges, with the meticulous process of making fiberglass proving more difficult and time-consuming than anticipated.

“You have to use a very precise amount of resin with hardener, and you have to use it within a minute or else it gets hard, and you can't use it,” Manoussakis says. “It took a very long time for us to get used to it.”

Using a combination of machined and 3D-printed parts, the team was able to complete assembly of a functional, if not fully operational, buoy prototype system.

The 2018 UAS buoy project received the SRI's first invention disclosure. With the 2019 team's continued progress and refinements, government and commercial interest in the system remains high.

GAMING THE WAY TO IMPROVED BORDER SECURITY

Imagine you want to smuggle contraband goods through an international border onboard a group of cargo ships. To avoid detection, would you concentrate the contraband together on one ship or distribute it across multiple ships?

Now imagine you are law enforcement searching for this contraband. Which ships would you search and how thoroughly? What strategies would you employ to maximize results while optimizing available resources?

The SRI's Red Team/Blue Team game project set out to answer such questions. Working with Stevens School of Business professor and associate dean of research Jeffrey Nickerson, the project team — Stevens undergraduate students Liam Brew, Caroline Corr, Tanner

Chiamprasert and Ronald Estevez, with students from the University of Puerto Rico at Mayagüez and New Jersey Institute of Technology — designed and developed a two-player adversarial computer game to mirror how the synthetic opioid fentanyl is illegally imported into the U.S. The drug is often smuggled in through ships or cargo containers.

The project team developed a game in which opponents play in groups of two, with one player assigned to the red team (the smugglers) and the other to the blue team (law enforcement). To begin each round, the red team secretly hides ten contraband units among ten numbered ships. The blue team must then decide which ships to search and how. Each player takes one turn in each round, for a total of five rounds.

"The outcomes from the research they've done have really had an impact in the field and on our stakeholders." — Beth Austin-DeFares, MSC director of education

Blue team resources are limited, so the players must strategize, balancing the likelihood of success with the costs (game tokens) required to achieve it. One token allows a 20 percent search of one ship, three tokens buys a 60 percent search, and five tokens are required for a 100 percent search. By quantifying limitations as part of its parameters, the game simulates real-world scenarios and gets to the heart of the project's central question: how to allocate law enforcement resources in seemingly unpredictable situations.

The team engaged approximately 60 friends and family members to play the game, generating around 90 games' worth of usable data for the team to analyze.

To improve the game's fidelity and better align it to DHS needs, the project team has made numerous recommendations, including integrating in-field data, procedures and intelligence not available to the students into the game's parameters. They've also recommended incorporating machine learning to improve both play speed and the quantity and quality of strategy analysis.

VISUALIZING DATA FOR BETTER MARITIME RISK MANAGEMENT

The Coast Guard records safety, security and law enforcement incident data in a nationwide database called MISLE (Marine Information for Safety and Law Enforcement). This data represents all major and minor incidents occurring on domestic and territorial waters, including environmental spills, criminal activity, accidents and boating under the influence. But the process of accessing and analyzing data from such an extensive database can be tedious and cumbersome.

Fast, efficient data analysis is crucial for making proactive resource allocation and budgetary decisions that improve safety and security outcomes. With resources already at capacity, Coast Guard operational field command Sector New York — whose area of responsibility spans more than 6,000 square miles, including the Port of New York and New Jersey — looked to the SRI for assistance.

Enter the risk management dashboard. Working with Stevens professors Barry Bunin and Paul Rohmeyer, the risk management

dashboard team — which included Stevens undergraduate Mathew Seedhom and students from SUNY Maritime College and the University of Alaska Anchorage — developed a prototype visual interface that provides a comprehensive overview of incident data and trends, summarized through an easy-to-scan display of charts, graphs and a regional map.

Lacking access to proprietary Coast Guard systems, the team built the dashboard to display through a website developed on a Python-based framework (Django) by pulling pertinent data from a PostgreSQL database. Interactive graphical elements are generated via JavaScript libraries.

The dashboard seeks to facilitate agile, quantitative decision-

making, such as when and where to beef up patrols. The team consulted regularly with Sector New York officials, whose insight into the practical needs of Coast Guard personnel directly contributed to the team's thinking.

Data integrity improvements figure into the team's final recommendations to Sector New York, including a flag or alert system to signal to a user when GPS coordinates have been entered that land outside the appropriate territory. Additional enhancement recommendations include strategic color-coding, custom graphs and the separation of vessel categories (cruise ship, jet ski, ferry, etc.) to allow for more granular incident analyses. The project is likely to see continued development next year.

Over the last ten years, the Summer Research Institute has built an impressive legacy.

"We're very proud of what we've accomplished," says MSC Director of Education Beth Austin-DeFares. "Not only is it the number of students we've brought through the program, but the outcomes from the research they've done have really had an impact in the field and on our stakeholders." ❖ — Kellie M. Walsh

The Maritime Security Center is a U.S. Department of Homeland Security Science and Technology Directorate Center of Excellence in port and maritime security.



Students from the Summer Research Institute visit the U.S. Customs and Border Protection New York Laboratory in Newark, New Jersey.

 **To read the full story, visit stevens.edu/sri**

Better Health with AI

Kleinberg Secures \$2.3 Million from NSF, NIH for Research

Stevens computer science professor Samantha Kleinberg was recently awarded three grants from the National Science Foundation (NSF) and the National Institutes of Health (NIH) totaling \$2.3 million to develop artificial intelligence that personalizes the information patients receive in order to help them make better decisions about their health.

“We are investigating how people think and make decisions,” said Kleinberg. “We are developing methods for understanding a person’s mental model — what their beliefs are; and then figuring out how to model people’s behavior based on this.”

The new grants, which bring Kleinberg’s total research funding to \$5.4 million, underscore a growing market where artificial intelligence and big data are providing added value to healthcare with a focus on diagnosis, treatment, patient monitoring and prevention.

Here are some details about Kleinberg’s three areas of inquiry. With a \$917,879 NSF grant, Kleinberg will develop computational tools to personalize information that patients with diabetes see in order to better decide on a treatment plan. This research is based on a longstanding model in healthcare known as a shared decision-making approach, where a patient and clinician work together to understand the patient’s preferences and formulate a treatment plan. However, the efficacy of the model can be strained as each participant in the treatment plan — patient, doctor, other caregivers — holds different sets of beliefs about disease and treatment, leading to different approaches that can derail results.

Additionally, the amount of information given to patients can be too complex — which could lead to patients becoming overwhelmed or not understanding. Kleinberg, in collaboration with Jesseca Marsh, a cognitive scientist at Lehigh University, will also



Stevens professor Samantha Kleinberg

create training modules to educate clinicians about how patient beliefs influence trust and decision-making. Onur Asan, who heads the Human Systems Interaction Lab at Stevens, will serve as co-principal investigator.

Meanwhile, an \$864,220 NIH grant will focus on using patient-generated data to identify the causes and effects of nutrition during pregnancy.

During pregnancy, about 9 percent of women develop gestational diabetes. In collaboration with Andrea Deierlein, a nutritional and reproductive epidemiologist at New York University, Kleinberg will use patient-generated health data collected through wearing activity monitors, logging meals in real time using photos that parse out type of food and calories or recording symptoms to capture what happens before illness develops. While type 2 diabetes typically develops over a long period of time, gestational diabetes occurs within a short, bracketed time period, making this the ideal population to study. Ultimately, the data aim to identify what factors cause this disease and will be used to identify targets for early interventions and to guide decisions during pregnancy.

Finally, a \$499,454 NSF grant will aim to evaluate and improve the utility of causal inference.

In an effort to build artificial intelligence, researchers are developing algorithms that determine cause and effect and, as such, have focused on developing methods to mine data to find these causal structures. However, causes have been treated as the end goal, without addressing information that is most useful for patients — i.e. what they can and/or are willing to act on to improve their health. Kleinberg wants to build artificial intelligence that’s usable for the benefit of patients.

For example, imagine monitoring a person with diabetes on their physical activity, food intake and stress levels. Perhaps all three variables coincide with high glucose or other adverse health outcomes. But which of these variables — activity, food intake or stress — is actually causing the adverse health outcome? Current artificial intelligence is good at finding these correlations, but not as good at determining a causal structure. Moreover, artificial intelligence cannot determine which of these variables people are willing to — or able to — change in order to improve their health.

“Humans don’t just use data like a machine,” said Kleinberg. “They make decisions based on many things, including prior experiences and assumptions. So not all new information has the same impact on influencing a person’s decisions.”

The research will focus on understanding what makes the output of an algorithm useful to human decision-makers so that algorithms can be evaluated based on this ability, rather than the percentage of causes they find or how fast algorithms accomplish a task. This will introduce new methods that make causal models more usable and personalized, leveraging these results to improve everyday decisions around treatment, diet and exercise. ❖



To learn more about Kleinberg’s research, visit healthailab.org

Rooted in Tradition, Reaching New Heights

REJUVENATED SAA PLAYS KEY ROLE IN THE POWER OF STEVENS

When Stevens held its first classes in September 1871, there was only one building on campus, one degree offered (in mechanical engineering) and an enrollment of 21 students — males only. The first graduating class had one member: J. Augustus Henderson, Class of 1873.

More graduates followed, enough to incorporate as a group on July 1, 1876. Almost a century and a half later, the Stevens Alumni Association (SAA) has blossomed into a diverse collective of 48,000 members, buoyed by a new constitution, regional clubs nationwide and a revitalized mission.

PASSING THE TORCH

The first SAA president was William Hewitt of the Class of 1874, who spent his career with the Trenton Iron Company. For a century, Hewitt and his successors led an association of men, save for rarities like Audrey Leef M.S. '47 and Elizabeth Bailey M.S. '66, who earned graduate degrees before Stevens went fully co-ed in 1971. The SAA began to evolve when Lenore Schupak became the first undergrad alumna in 1974.

"We talk about diversity in our undergraduate population because it enriches the educational experience, and ultimately that strengthens our alumni network," said

current SAA President Victoria Velasco '04. "Our alumni association should always strive to reflect our community, representing different geographical areas, backgrounds and points of view."

For more than a century, the SAA operated under a constitution ratified in 1906, which over time became antiquated. But contemporary leaders have pursued reforms. During his tenure as SAA president from 2013 to 2015, Tom Moschello '63 M.S. '65 signed a new memorandum of understanding between the SAA and the university, which enabled the SAA to modernize. Five years later, SAA voters ratified a new constitution in 2018.

"Years ago," Moschello said, "Stevens was smaller, and alumni were more centered geographically. As the SAA expanded, it became almost impossible to amend the constitution in ways we needed."

One of the most palpable changes to the constitution validates new ways for alumni to participate. In the past, alumni could only vote for SAA leadership elections and receive other official notifications through the mail, but now they can vote digitally.

"We're trying to be more thoughtful and intentional about creating connections with our alumni community," Velasco said. "Some of the changes to the constitution were nuanced, like being able now to accept virtual participation in meetings and elections, which allows more alumni to stay involved."

CHANNELING CASTLE POINT

As Stevens has grown more diverse, alumni have embraced new affinity groups that didn't exist in the 1870s, including the Stevens Technical Enrichment Program (STEP), Stevens Latin American Club, WCPR



Wilberto Garcia M.S. '00, left, and Jamaal Smith '07 enjoy the Washington, DC, Club holiday party in December.

and the Stevens Metropolitan Club.

The Old Guard, which represents alumni from classes that graduated more than 50 years ago, is still the backbone of the SAA, and yet it too has evolved. While the Old Guard of yore might have conjured up cultural touchstones like Marlon Brando in "On the Waterfront," today's Old Guard is increasingly more likely to have frolicked at Woodstock. Of course, the Old Guard will evolve again once Lenore Schupak '74 and other women begin joining in 2024.

Alumni now span the globe. From the days of first graduate Augustus Henderson, who worked in shipbuilding as far away as Russia, Stevens graduates have taken their technical skills to meet new opportunities.

Alumni can keep in touch through a constellation of regional clubs, notably ones based in Northern and Southern California, Houston, Boston and Washington, D.C., but also in emerging economic centers like Raleigh, North Carolina. With more international alumni, there are networks in India, China and elsewhere.

After earning degrees in naval engineering and biomedical engineering, Nicole Griggs '14 and Jessie Vos '14 moved for jobs in Wisconsin. Soon after, they started a club that has gathered area alumni for bowling, boat cruises, company tours, potluck dinners and beer garden visits.

"When Jessie and I started the Wisconsin alumni club, we were recently graduated and wanted to create a sense of community miles away from Castle Point," Griggs said. "It can be hard relocating to a new state, and having a network of transplanted alumni helps to adjust to a new area. We look forward to more gatherings where graduates of all eras can reminisce about their times at Stevens."

ENDURING PURPOSE

Stevens alumni have major anniversaries to celebrate in the coming months, starting with the university's sesquicentennial that begins in February. The summer of 2020 will mark the 100th Alumni Weekend, and the fall of 2021 will mark 50 years of undergraduate women at Stevens.

Coinciding with these anniversaries will be the completion of *The Power of Stevens* campaign, as well as a renewed push to raise the alumni participation rate, which is

a key statistic that collegiate experts use for national rankings.

The Ad Astra Ambassadors, who volunteer by engaging fellow alumni, are undertaking a "GAP" initiative to grow annual giving participation. According to Stevens trustee John Dearborn '79, who co-leads the ambassadors with Velasco, the university's goal is to exceed 17.5 percent giving participation for the fiscal year ending on June 30, 2020.

"We've been positively challenged and energized by the evolution of this plan over the last few months," Dearborn said. "We are looking forward to seeing how we can

contribute to closing the GAP...and more!"

Every gift, of every amount, counts toward the campaign goal of \$200 million and the priorities of *student success, faculty excellence* and building a *vibrant campus*.

"As alumni, we want the reputation of our alma mater to be as prestigious as possible," Velasco said. "We have a direct way of impacting that reputation. The campaign is improving our campus, and it's giving more resources to our students and faculty. Our alumni association is in part formed to promote the interests of Stevens, and supporting the campaign is an inherent expression of this purpose." ❖ — Alan Skontra



1 The Wisconsin Club gathered for a river boat cruise. **2** Attending a "State of Stevens" event with the Houston Club last year, from left, are Michele Dearborn, Tommy Terrell, Ann Green Terrell M.S. '96, Stevens President Nariman Farvardin and John Dearborn '79. **3** Members of the SAA Board of Directors, front row from left: John McDonnell '72, Lauren Mayer '12, Kirit Saraivaya '97, Tom Moschello '63, Patty Torres '01, John Dalton '60. Back row, from left: SAA Executive Director Matt Gwin, Peter Astor '64, Olivia Schreiber '18, SAA President Vicky Velasco '04, Michael Cahill '15, Paul Caplan '18 and John Tracy E.M.T.M. '03.

THE Stars OF Stevens

They are successful engineers, entrepreneurs, experts and educators, and all have had an impact on Stevens — together they represent the nine honorees of the seventh Stevens Awards Gala.

On May 2, 2020, the Stevens community will gather at the historic Plaza Hotel in New York City to celebrate these prolific alumni and friends whose stories will inspire the next generation of leaders and innovators.



Frank J. Effenberger '88 ✦

DISTINGUISHED ALUMNI AWARD FOR ENGINEERING

As a vice president of Futurewei Technologies, Frank Effenberger leads U.S.-based research and development for Huawei, the Chinese telecom giant. In 2011, Huawei selected him as one of only six fellows among 75,000 employees. As an expert in broadband optical networks, Effenberger has secured 109 patents, with dozens more in progress, and has written more than 150 technical papers and several book chapters. Effenberger earned a doctorate in electrical engineering from the University of Central Florida.



Aimiende I. Negbenebor Sela '04 ✦

DISTINGUISHED ALUMNI AWARD FOR ARTS AND HUMANITIES

A native of Nigeria, Aimiende Negbenebor Sela moved to New York City in the late 1990s and earned degrees in computer engineering and literature from Stevens. She left IT work after several years to pursue her passion for the arts. She is currently developing a feature-length version of her autobiographical short film, “Asa, A Beautiful Girl,” which won multiple awards at festivals in the United States and internationally. Her company, Sela Films, promotes movies written, directed and produced by women.

CELEBRATING THE ILLUSTRIOUS HONOREES OF THE 2020 STEVENS AWARDS GALA



Richard E. Blahut M.S. '64 ✦

DISTINGUISHED ALUMNI AWARD FOR SCIENCE AND TECHNOLOGY

Richard Blahut has a 60-year career in information theory, digital communications and military systems. A 30-year member of the National Academy of Engineering, Blahut is an IBM fellow and an IEEE fellow. He received the IEEE's Claude E. Shannon and Alexander Graham Bell awards. The author of ten textbooks, Blahut has taught at the University of Illinois, Cornell, Princeton, South China University of Technology and Swiss Federal Institute of Technology. He currently teaches at the University of Pennsylvania.



Robert H. Grieser, Jr. '88 M. Eng. '93 ✦

OUTSTANDING CONTRIBUTION AWARD

For more than 30 years, Robert Grieser has recruited more than 150 Stevens alumni, faculty, staff and students as volunteers for the Macy's Thanksgiving Parade, during which he leads them in inflating, piloting and managing the balloons down the parade route. In gratitude, Macy's has donated more than \$250,000 to Stevens for scholarships and athletics. In 2017, the company named Grieser as Macy's Volunteer of the Year, an award rarely given to a non-Macy's employee. Grieser previously coached men's fencing at Stevens.



Thomas J. Moschello '63 M.S. '65 ✦

LIFETIME SERVICE AWARD

As president of the Stevens Alumni Association (SAA) from 2013 to 2015, Tom Moschello led the association in signing a new memorandum of understanding with the university, enabling the SAA to modernize further in many ways. Moschello continues to serve on the SAA's executive committee, and he is also a co-captain of his class fund and an alumni participation leader with the Ad Astra Ambassadors. Moschello enjoyed a long career in various roles for Bell, AT&T and Lucent.



Sheila Xuan Sun '06 M.S. '06 ✦

YOUNG ALUMNI ACHIEVEMENT AWARD

Sheila Sun is a strategy and operations tech executive with experience across four continents. She founded CommonHealth, a health information management tool for patients to track and share critical information. She also co-founded Peak Investment Capital, an African private equity firm investing locally. Inspired by her daughter, Sun's newest venture, E-Em-Em-A, focuses on girls and women. She is a career advisor at Harvard Business School (HBS), where she earned an MBA, and teaches with the HBS Club of Buffalo.



Hermes O. González-Bello '89 M.S. '95 ✦

INTERNATIONAL ACHIEVEMENT AWARD

Hermes González-Bello is president of HACH, a subsidiary of Danaher Corporation. HACH is a global leader offering a comprehensive set of products, chemistries, services and digital solutions in drinking, waste and industrial water applications, employing over 5,600 associates worldwide. González-Bello held prior responsibilities as president of PALL Industrial, and vice president and general manager of Danaher Water Quality Platform, Latin America. He was also an active member of the Environmental Technologies Trade Advisory Committee within the U.S. Department of Commerce.



The Ansary Family ✦

FRIEND OF STEVENS AWARD

Cy and Jan Ansary are prominent members of the Washington, D.C. community. Cy is an international lawyer, financier and philanthropist. Their sons Jeff, Brad and Doug, are managing directors of the Ansary family office, and directors of the Cy and Jan Ansary Foundation. In 2019, the family endowed prize money for the Ansary Entrepreneurship Competition at the Stevens Innovation Expo. On campus, Jeff is a member of the President's Leadership Council, while Brad is on the Advisory Board of the School of Business.



Henry Morton ✦

HALL OF ACHIEVEMENT

As the first president of Stevens, serving from 1870 to 1902, Henry Morton set an enduring foundation at Castle Point. He established the university's standard for a broad and rigorous curriculum that has prepared thousands of alumni to succeed in an array of fields. Morton also birthed a thriving culture of philanthropy by funding capital improvements, scholarships and a faculty chair. He is the namesake of an academic building and a teaching award. Before Stevens, Morton chaired the chemistry department at the University of Pennsylvania.

STEVENS AWARDS

✦ *Gala*

For more information on the Stevens Awards Gala and to purchase tickets, visit STEVENS.EDU/AWARDS_GALA

alumni**news**



FOR MORE THAN 50 YEARS, hundreds of faculty, staff and students have supported and participated in the Stevens Technical Enrichment Program (STEP). Can you identify these women working together in 1972? If so, email editor@stevens.edu

PHOTO: ARCHIVES & SPECIAL COLLECTIONS, SAMUEL C. WILLIAMS LIBRARY, STEVENS INSTITUTE OF TECHNOLOGY

SAA President's Letter

A Year of Milestones for Stevens and Your Alumni Association

The Recent Alumni and Current Students (RACS) Committee shall identify and implement opportunities and programs that are intended to enhance the participation of recent graduates and current students.

Dear fellow alumni,

I hope that each of you had a wonderful holiday season and a bright start to 2020. The beginning of a new year is often linked to great aspirations, and in that spirit, this issue of *The Indicator* celebrates achievements from across the Stevens community. It is with pride that I read these stories and think about what's next for our alma mater. And for good reason.

We are standing on the precipice of our university's 150th anniversary — a pivotal moment for us to highlight our past and gaze into the future. Throughout 2020 and 2021, you will hear from me and other members of the Stevens community about opportunities for us to celebrate our sesquicentennial.

Coinciding with Stevens' big birthday bash is an important celebration for the Stevens Alumni Association (SAA) — our 100th Alumni Weekend will take place June 5-6, 2020. This is a weekend about celebrating milestone reunions, reconnecting with classmates, gathering affinity and special identity groups and inviting all those who call Stevens home, to come home. During this exciting upcoming year, we hope you will join us for what will be a truly memorable Alumni Weekend.

The directors of our SAA are continually looking toward the future through the work of our various standing and ad hoc committees. Last issue I shared a profile of our Class Leadership Committee — a pivotal way to keep our classes engaged through their shared experiences. As we enter this 150th year, the Recent Alumni and Current Students (RACS) Committee will play an ever-greater role by inspiring students studying at Castle Point today to think about tomorrow and what it will mean to be alumni in the



future. Equally important is the work this committee conducts in cultivating our connection with our recent graduates. It is vitally important that we build a clear path from freshman year through a lifetime of involvement by starting at the beginning of a student's journey.

Chaired by Olivia Schreiber '18, RACS is growing innovative programming and philanthropic avenues for the newest members of the Stevens community and educating them as to why being connected is vital to the health of the university we love. I invite you to reach out to Olivia with your thoughts and interest in getting involved.

The heights to which we can rise are tied to our ability to inspire our current students and recent alumni. Olivia can be reached at RACS@alumni.stevens.edu.

I invite you to join me in entering this next 150 years for Stevens with the same great support you always have, and I encourage you to never stop thinking about ways we as an alumni association can continue to drive Stevens' ascent.

Per aspera ad astra,

A handwritten signature in black ink that reads "Victoria Velasco". The signature is fluid and cursive.

Victoria Velasco '04
President, Stevens Alumni Association
SAA.President@alumni.stevens.edu



The RACS Committee is dedicated to preparing emerging leaders within the student body for future leadership roles in the SAA and developing unique opportunities for engagement between the university and graduates within the last 15 years.

— Olivia Schreiber '18, chair, Recent Alumni and Current Students Committee



Class Logs

'43 Oct. 9, 2019 — I still await phone calls from my classmates since my only contact now is **Bill Caldwell**. I am still living in my same home here in Orinda, California, since July 1951. I am blessed with continued good health and the help of wonderful caregivers originally from the Philippines. What may be of interest is that the name Philippines was named in honor of King Philip II of Spain. As many of you know, I am also an island boy, being born on the island of St. Croix in the U.S. Virgin Islands. The National Park Service on St. Croix owns my father Folmer Andersen's collection of pre-Columbian artifacts. These were collected by my father during the off season at the Bethlehem Sugar Factory, for which my father was the managing director.

Most of you may recall that I was the alpha at the Chi Phi fraternity in my junior year, 1942. I joined the Navy and was commissioned as an ensign. I was an engineering officer most of the time in the M Division on USS Kasaan Bay CVE-69. I was a plank owner from the date of commissioning in November 1943, serving in the Atlantic, Mediterranean and Pacific until decommissioning her in the South Boston Navy Yard in October 1946. — **R.M. "Andy" Andersen, 20 Valley Drive, Orinda, CA 94563-3534; (925) 254-3789; rmandyandersen@comcast.net**

'46 Oct. 23, 2019 — A few years back, classmate **Joe Schneider** shared with *The Indicator* a photo of the V-12 "inmates" of Palmer Hall, circa 1944. Although I haven't come across any similar group shots of the residents of Jacobus Hall or the Navy building — other Naval Reserve barracks — I shared, in the Fall 2019 issue of *The Indicator*, a mugshot of the 65 smiling apprentice seamen billeted at the River Street Barracks — opposite the Administration Building — also circa 1944 (possibly 1943). The photo was printed in that last issue but, unfortunately, "the rest of the story" (paragraph below) was excised due to space limitations.

There are three "factoids" for you to be aware of in viewing that photo, if you happened to save your copy: (1) every individual in the group is now either deceased or in their 90s; (2) the surname

Meet **Callan Michael Boera**, great-grandson of **Dick Boera '46**.▶

of every gob begins with either "A" or "B" with just two exceptions (**Jack Seely '49** and **Jim Plankenhorn** were prior enlistees and slightly older than the rest of us, justifying their appointment as masters-at-arms for the building; all the others were assigned alphabetically); (3) on request to arbjl@comcast.net, I can identify by name and location every smiling face pictured, since I happened to have printed the names on the reverse shortly after receiving the original copy. Just about every one of these newly minted reservists were in the classes of 1944, '45, '46, or '47. BTW, **Jack Seely** — second row, fourth from the right — returned to graduate with the class of 1949 and had a successful career in the development of computer technology and later in higher education, teaching in California and Florida; he passed away in 2008.

On the subject of our mortality, and lacking news of great-grandkid additions (our sixth herewith, **Callan Michael Boera**) from you other ancients, let me indulge in a space filler.

Aside from a bout with colon cancer a few (34) years back and some periodic emergency room visits for pesky kidney stones, I have been blessed with reasonably good health. A colostomy isn't the worst thing to live with — still playing golf weekly — but it sometimes reminds me of that quotation I once came across: "I don't feel like an old man; I feel like a young man who has something the matter with him." As T.S. Matthews once mused, "I hope dying won't be nearly as important as I expect it to be." Perhaps some might empathize with Woody Allen's take: "I'm not afraid of death; I just don't want to be there when it happens."

My scan of a Castle Stevens postcard appeared in the last issue, highlighting a story



This pen and ink drawing of Castle Stevens for a 1944 Christmas card is by artist **Frank Alfred Taggart**.

about this historic building and the annotation that you would see another view of the Castle in the Winter 2020 issue — a pen-and-ink Christmas card rendition in 1944, the artwork of commercial artist (and fellow Stute student) **Frank Alfred Taggart**, whose artistic talents were generously shared in campus publications. Here 'tis — with this log — along with our warmest wishes for your happiest holidays. (P.S. With your gift to the Stevens Fund, please send me the gift of your news!) — **A. Richard (and Julie) Boera, Allenwood, 90 Allen Road, Apt.16, South Burlington, Vermont 05403; (802) 495-5815; arbjl@comcast.net**

'48 Oct. 22, 2019 — Our Stevens '48 Class is dwindling away. We four — **Dan Haagens, Jim Ware, Howard Heydon** and me — may be the only ones left. Two other possibilities, **Curt Van Valkenburgh** and **Miles Kuchar**, so far have not responded. (*Editor's Note: The Indicator staff recently learned the sad news that Walter Graulich passed away on Oct. 28, 2016.*)

Also, please let me know of anyone else that I have missed!

Had a great contact with **Dan Haagens**. Dan remains quite active in the operation of his software company. Dan is now engaged in rewriting/revising the software for his hospital accounting system (HOSPACT) being used by major hospitals such as the Mt. Sinai hospitals. He has developed a 700-page document which describes all the changes involved in the updated HOSPACT. The task now is to develop the educational input, and then make presentations to the hospital systems involved — another major task! (Talking with Dan, he sounds in his fifties.)



Jim Ware also sounds like a young man! He claims that at age 95, his legs are moving a bit slowly — but isn't that typical, so are mine? Jim is having a great life, living on the Pacific coast near Disneyland. And Jim remains active in his acts of magic. I will never forget his magic, throwing the deck of cards against the wall of the TX Dutch Room.

Had a long talk with Howard Heydon. Howard is living an amazing life. He lives in his motor home in Florida much of the year, and travels to visit his many children/grandchildren during summertime. Right now, he is in West Virginia — and very active. Six days a week, he stays in shape doing gym exercises (over an hour each day), such exercises as 500 strokes on the rowing machine, etc. During World War II, Howard was radio/radar operator flying B-29 bombers over Japanese targets in Southeast Asia and Japan. Later as chief engineer for the New Jersey Turnpike Authority, he was highly involved for many years in developing New Jersey's major highways. After retiring in 1983, he continued consulting for highway systems worldwide. This included highway systems in Indonesia, and consulting for major banks regarding the Hudson River tunnels.

As for me, I spend most of my time as an author, writing two series of books. Thus far, I have seven books that are published by Amazon, etc. The first series includes: *Struggle of Titans*; *Death of an Empire*; and *Republic in Discord*. These deal with world history from 550 B.C. to 44 B.C., the death of Caesar — with perhaps another 20 volumes through 800 A.D. to cover the period including Charlemagne. The second series includes *Who and Why Are We*; *Our Human Destiny*; *Our Future as Humans*; and *Our Human Choices for Survival*.

Thanks to you and to everyone involved in the continued success of Stevens Institute of Technology. — **Lou Shook, 220 Bay Colony Drive, Virginia Beach, VA 23451; (919) 619-3955; loushook@cox.net**

Alumni Weekend reunion, June 5-6, 2020

'50 Oct. 21, 2019 — **Walt Carow** here in Tennessee. Heading to Florida for the winter in a few weeks. Got one classmate input (see ahead). Working a list of 102 class members from the Development Office. They say 100 living, but checking I found quite a few have died. They are:

Robert E. Bauer on 5/24/18 at 92; **Frank H. Corbally** on 10/15/2001 at 74; **William A. Ganther** on 11/26/2013 at 85, had five kids, worked for GE; **Ernest Geissler** in 1994 at 74; **Robert A. Hanington** in 2012 at age 87; **John Hermann** on 7/13/2019; **Edward P. Laragy** in 2002; **Vincent R. Oldman** on 11/2007 at 80; **James F. Peterson** on 12/30/2012 at 84; **Robert D. Sikora** at age 92; **Sidney Trewin** in February 2019; **Carl P. Volkert** on 2/2/2013; and **John S. Worley** in 1998. The total is 13, if the information is correct. That would be at best 87 living out of our February and June classes of 359. There are also quite a few with disconnected phones, which is suspect, but some may have moved.

I didn't think much about Hoboken when attending Stevens. Looking up its history is interesting. Its population is 50,000, the same as in 1950, after a dip. Now it has high rises with rents of \$2,000 to over \$6,000 and about 26 bars (remember River Street?). Col. John Stevens named it and developed an amusement park attended by 20,000 New Yorkers on weekends.

A recent letter from Stevens President Nariman Farvardin shows how much Stevens has grown since 1950. *"An academically-distinguished cohort of 1,013 new undergraduates joined us this fall, setting new records in selectivity and SAT scores. This year, Stevens accepted just 40% of applicants — from among a record pool of 10,475 applications this year — and the average SAT score for the Class of 2023 was 1430, the highest in Stevens' history! Kudos to the Offices of Undergraduate Admissions and Financial Aid, and the many supporting offices who contributed to these results, as well as the academic leadership and faculty who helped to attract and yield such a stellar class of Stevens students. Perhaps one of the most visible signs of the transformation taking place at Stevens is the appearance of the campus itself. There has been tremendous progress in facilities and campus infrastructure supporting education, research, and student life."*

Average starting salary for the 2019 class was \$77,000, 50% above the average of about \$51,000. In 1950, the average was about \$3,300 which is \$35,158 in today's inflated dollars. So, engineers are being paid 45% more on average now. Called **Ernest E. Goitein**, 94, who retired in 1980. He reports pretty good health and is living in his home in California. They had two girls, one surviving, and grandkids and great-grandkids. He worked for Bechtel and Foster Wheeler on cooling towers. He is interested in politics.

Spoke to **Roy Carlson**, who entered the field

of psychology shortly after graduation. He is in Chicago trying to see if he can survive another winter. Happy to be retired and has done some writing and teaching.

Marcus Smith from Rincon, Georgia, writes: "I graduated in the class of February '50. I was a World War II veteran using the GI Bill. Was married in June 1946 and commuted to Stevens from Hackettstown, New Jersey, 59 miles each way. After graduation I went to work for Remington Rand as a punch card customer engineer. In the summer of 1952, I tested, installed and serviced the first commercial punch card computer, 409, at the IRS in Washington, D.C. I was national service manager for the modified versions of the computer for several years and was transferred to the manufacture and test sections in Ilion, New York. I remained in manufacturing in various capacities bringing computers from design into the manufacture and test operations. Was assigned to Scotland for two years, as plant manager for a new punch card punch assembly and test facility. Returned to Ilion in charge of all assembly and testing of various peripheral and computer hardware. As punch card use was starting to diminish, the factory buildings were sold and various manufacturing was relocated. I was transferred to the home office in charge of licensing all computers for export. I retired in 1983. During my tenure the company had several name changes as it merged with Sperry. Our products carried the UNIVAC label. The company is known as UNISYS today.

"My career was most interesting as the computer evolved from tubes to solid state. Each year new versions were developed and peripherals became more adaptable. The advent of computer language such as COBOL and FORTRAN were forerunners to today's apps.

"After several years of retirement, we bought a home in Boynton Beach, Florida, where we lived for 28 years. We enjoyed the warmer weather and activities in our community. We were active with our church in various capacities. We now live with our eldest daughter still enjoying outdoor activities of swimming and three-wheel bikes. This past June was our 73rd wedding anniversary.

"We have four children, 14 grandchildren and 14 great-grandkids. We are both in reasonable health, with Martha at 98 and me at 96. My favorite pastime is making birthday cards for the family.

"Thank you, Walter, for working to hear from our class as we age. I had three older brothers,

two of whom graduated from Stevens and the third for two years and then to the U.S. Naval Academy at Annapolis. I am the sole family survivor."

Our 70th reunion is coming up on Alumni Weekend, June 5-6, 2020. If you think you can make it, drop me an email. Send me an article or give a call about yourself. — **Walter Carow**, 12300 Vonn Road, Apt 5307, Largo, FL 33774; 865-805-6134; wcarow@yahoo.com

'51 Guest log by **Al Donaldson**
Oct. 14, 2019 — Inspired by **Charley Wetter's** comments in the '51 class log, Fall 2019 *Indicator* issue, here's my bio of what happened in the 68 years since graduation in June '51. (If Charlie is interested in my rather turbulent four and a half years at the Stute, I can also provide that story.) That month of June '51 was notable as well for my taking a job as a tech rep with the Bakelite Division of Union Carbide and, most important, my meeting Joan Slattery, then mid-way through her time at Manhattanville College. Joan and I married in '53, and she joined me in Kansas City, from which location I covered a huge sales territory for thermoset resins.

After seven years, I was transferred to a New England territory, close to Joan's home outside Boston. In subsequent years, I worked in various UCC chemical product and distribution management jobs in New York City (twice) and New Jersey. Finally, I wound up in Atlanta as sales manager for a group of chemicals in the southeast — while UCC underwent at least six reorganizations!

In Atlanta, I discovered an unsuspected talent I was good at — managing people rather than "things." Those last five years were the best! Then in 1988, I retired after 37 eventful years with the corporation.

Along the way, Joan and I amassed five kids, now with six grandkids and two great-grandkids. We retired to Amelia Island, Florida, for golf and fishing and volunteering — until recently, that is. At age 92 and 88, our activity is restrained but we both are mobile, thankful for Medicare and frequent visits from our family!

Al Donaldson '51 — *The Stevens Indicator*, **Castle Point, Hoboken, NJ 07030; (201) 216-5531; alumni-log@stevens.edu**

Don't see your class log listed? Send an update to alumni-log@stevens.edu or call 201-216-5161.

SAA Update

Alumni Weekend — June 5-6, 2020 — turns 100 this year, and it will be a weekend complete with camaraderie, celebration, the honoring of our past and looking toward our future. In this spirit, we will gather on Saturday, June 6, for our second Stevens Alumni Association Annual Meeting at Alumni Weekend. This gathering provides the Stevens Alumni Association Board of Directors the opportunity to share prior-year successes, discuss new opportunities and honor some of our most distinguished alumni. We encourage

you to come for the entire weekend and celebrate this event which is 100 years in the making. Amid the fellowship and excitement, we hope you will also join us and your fellow alumni at this all-alumni meeting to hear about the impact your alumni association is making and how you can connect more deeply during this milestone year, which also marks Stevens' 150th anniversary.



 For more information on Alumni Weekend, visit stevens.edu/alumniweekend

'52 Nov. 1, 2019 — I am sad to report on the passing of two more of our classmates, **Roger Beutner** and **Ed Kraft**. We mentioned their passing in the previous class log but want to take the time now to reflect on their extraordinary lives. We'll end the log with their more formal obituaries that cover their careers and families, but here are a few highlights for each of these esteemed classmates gleaned from their Stevens 50th class reunion surveys.

Roger traveled 900 miles by car — from Jupiter, Florida — to attend our 50th reunion back in 2002! But this should come as no surprise, as his favorite hobby was traveling and he visited, amazingly, 32 countries as of 2002, and likely visited even more later in life. One of his favorite spots was Papua, New Guinea, as well as Germany, where he took a trip with his children and grandchildren to Essen, Germany, his birthplace. This successful Amway executive recalled that his most vivid memories of Stevens were of surveying camp and fraternity parties, as a member of Theta Xi. His most satisfying accomplishment? "Raising three great children and remaining married 61 years."

Capt. Ed Kraft, a Korean War veteran who served for 37 years in active and reserve duty with the Navy, was a Stevens stalwart — very devoted to the Class of '52 and to Stevens for many years. He served on numerous reunion committees over the years, faithfully attended the Stevens Old Guard Luncheon and volunteered to call classmates to raise money for the Stevens Fund. He called starting his own company and building a factory in Brazil his greatest

professional accomplishments. Serving as national director for the Navy League and president and treasurer of its North Jersey Council for many years also brought him great satisfaction. At his funeral, the Navy scattered this extraordinary veteran's ashes at sea.

Here are more formal obituaries for our classmates. We extend our deepest sympathy to their families; they will be greatly missed by the Class of 1952.

Roger E. Beutner

Roger E. Beutner of Jupiter, Florida, a manufacturing executive and Air Force veteran, died on May 3, 2019.

Roger spent more than 25 years with Amway Corporation and served as senior vice president of operations. He was also a former chairman of the board of the Chemical Special Manufacturers Association and served in the Air Force from 1952 to 1956, achieving the rank of captain.

An active leader in his community, he served as president and board member of Temple Emanuel and a member of the Engineering Board of Visitors at Western Michigan University and Grand Valley State University.

He and his wife, Marcia, were world travelers who circled the globe — visiting dozens of countries. They visited all 50 states.

In addition to Stevens, Roger earned a bachelor's degree in industrial engineering from New York University, and an MBA from Georgia State University.

Surviving are his wife of 61 years, Marcia; a daughter, Sheryl; two sons, Austin and Brian; and seven grandchildren.

Edwin Kraft

Capt. Edwin Kraft of Silver Spring, Maryland, a Korean War veteran and a longtime resident of Ridgewood, New Jersey, died on March 24, 2019. He was 89.

Ed held several general manufacturing positions in a variety of industries. He served as an engineering officer aboard the USS NOA during the Korean War and retired in 1990 after 37 years of active and reserve duty. Ed served as national director of the Navy League of the United States and council president and treasurer for many years of its North Jersey Council. This strong supporter of Stevens and devoted class reunion volunteer is survived by his wife of 31 years, Judith; a daughter, Cynthia Spatula; a son, James; a stepdaughter, Jennifer Miiwski; a stepson, John Donaldson; and eight grandchildren. His son, John, predeceased him. — **Bob Wolf**, 3740 Broadview Rd., West Lafayette, IN 47906; (765) 497-3853

'54 Oct. 31, 2019 — I have not received any news from our classmates but want to mention and acknowledge the great thanks that is due to **Jack Sanborn** for all the years that he put in acting as our class secretary. If you remember, he and **John Towse** took over the job when **John Sylva** gave it up due to his many naval duties.

Jack dutifully carried the task alone after the passing of John Towse. It was a most commendable effort from him trying to get us to send him some news of what we were doing with our lives. Wish you and Patti the very best in the years to come. It would be nice if you (classmates) could send him a note of thanks and acknowledgement for his years of service as our secretary. You can reach him at jack62@aol.com.

Although I did not receive it from him, in the Stevens Foresight Letter, there was a full page regarding our classmate **Frank Battista**. It's hats off and a big congratulations to Frank and his family for a huge contribution to Stevens that will result in the Frank T. Battista Cybersecurity Lab. The lab is included inside the new Gateway Academic Center, the 90,000-square-foot building constructed at Stevens for lab, classroom and office use. It is the first new building at Stevens in almost 20 years. Frank, you did Stevens, our class and you and your family proud with your donation. You surely will be remembered every time a student and faculty member steps foot into that building.

That's about it for our news. As for Peggy and me, we partially went through one of Florida's hottest summers on record. So, in August, we hooked up our trailer and started to head north. On the way, we spent several days in Savannah, Myrtle Beach, Virginia Beach and one of our favorite spots when we were living in good old New Jersey at Cape May. Our favorite restaurant Menz's was still there in nearby Rio Grande, New Jersey, and we had excellent seafood dinners there two nights as well as touring around, as we did at the other stops. After that we headed up to Blairstown, New Jersey, where we spent the rest of our August days with our number two son Steve and his wife, Marybeth, before heading back home for the Labor Day weekend.

I would love to hear from you all, even if it's to say "Hey, George, I'm alive and here in wherever and doing basket weaving for my new hobby." As they say somewhere...keep those cards and letters a-coming! Hope you had a merry and joyous holiday season. — **George J. Hromnak**, 45 Glenridge Blvd., Homosassa, FL 34446-4450; (352) 382-7445; ghromnak@embarqmail.com

Alumni Weekend reunion, June 5-6, 2020

'55 Oct. 28, 2019 — Since becoming '55 secretary, I've received news from several classmates. Enjoy their comments in the following paragraphs (and submit some of your own!).

First, a few words from **Armand Bassi**, who wrote that he and his wife, Lori, enjoy reasonably good health and continue to escape the winters in Ridgefield, Connecticut, by relocating to their Juno Beach condo on the Atlantic coast of Florida. Armand and his wife are active golfers and play year-round as club members in both locations. They have raised a son and three daughters and now enjoy a growing family with 10 grandchildren and two great-grandchildren spread from Honolulu, Hawaii, to Harvard, Massachusetts. A passion in Armand's life has been flying a private Beech Bonanza, which he continued to do until age challenges prompted his decision to sell the plane a few years ago.

Ed Merrell sent a "brief synopsis of my career," in which he credits Ron Kellerman with recommending that he become a state-registered professional engineer in order to establish employment connections. This worked out well, and Ed subsequently registered in four states in which he oversaw the building of plants

around the world (mainly for the production of non-woven textiles). Ed writes that, as his clients retired or died off, he decided that it was time for retirement from that career. He now enjoys devoting creative time to art, producing paintings for his gallery, located in Jaffrey, New Hampshire. Ed invites anyone passing through Jaffrey to visit the gallery.

Bob Farrenkopf penned a note that provoked pleasant memories about my life in Mar Vista in Los Angeles, where **Joe Wolf** and I shared an apartment in the late 1950s. Bob came to L.A. after working in Philadelphia for Honeywell as well as earning an M.S. at the University of Pennsylvania Moore School in 1959. Bob and Mary (who met at a Chi Phi event at Stevens) then decided to begin marriage, living in Philadelphia at first. In 1961, Bob took a new job at STL in California, and with Mary bought their Mar Vista house in which they raised their four now-adult children and in which they still live. These three sons and one daughter have increased the family with 11 additional youngsters.

From **Emil Neu**, I received a collection of '55 workaday impressions which may provoke memories for many readers — as they did for me. Neu remembers that Profs. Wegel and Reeks called each other "Speed" and "Stinky," nicknames that were, in fact, used quite generally by '55ers. **Speed Wegel**, a Stute old-timer, earned his M.E. with the Class of 1919. Emil also remembered Speed Wegel telling his class that humanities professor Fife was FeeFee and Professor Nankivill was Nankipoo. Speaking of FeeFee's early days at Stevens, Speed recounted that FeeFee was mistaken for a vagrant when he entered the A-Building for the first time, and that once he fell face-down when lecturing in the R-Building as he became entangled around the leg of an old wooden desk. Economics professor Joel Crouch described the R-Building as needing its coat of grime because its filthy walls had enough dirt on them to hold them up. Speed Wegel shared lessons in mechanical drawing with no-nonsense Professor Matt Bilyk, widely known as Black Matt. A common whine in Black Matt's classes, where project work often went on to very late hours, was, "Please sir, we want to go home; the owls are coming into the windows." Dean Waldo Shumway was regularly called Baldo and his nephew, student Dick Shumway, was Baldo Jr. The Pink Sheet in 1954 had a photo of electrical engineering professor A.C. Gilmore, known for his high regard for engineering precision. Gilmore

was shown working with a giant slide rule in a picture captioned, "D.C. Shaftmore works out approximations on his 10-foot slide rule." At the end of a quiz, humanities professor Doc Humphrey would often ask, "Is anyone undone?" In chemistry, we got used to daily ten-minute quizzes administered by Steve Donatus, who was pegged as Donuts (to complete a team of "Coffee and Donuts") with fellow chemistry professor L.H. (Coffee) Backer, a longtime consultant to the Maxwell House Coffee factory located just north of Stevens on Hudson Street. Pleasant aromas of roasting coffee often filled the air on campus during our student days. Humanities professor Richardson told stories recounting experiences when he was secretary to Gen. Mark Clark during the then-recent World War II. As to '55 classmates, Emil remembered that **Hank Mon** suddenly appeared by climbing out of the typewriter-well that was built into a desk during a math class. Neu, who earned a doctorate and had a full career on the Stevens faculty, also remembered that a '55er once strummed a hidden ukulele while a fellow spoofer imitated the action on a T-square at the start of a Matt Lawler class. — **Richard S. Muller, 1519 Oxford St., Apt H, Berkeley, California 94709-1542; (510) 559-0866; muller@berkeley.edu**

'57 Oct. 28, 2019 — **Ib Berg** wrote in with this wonderful update. "Chuck, it was good to talk to you recently. Your voice was strong and full of spirit. That was good to notice when considering all the medical issues you have had over the last two years. I am sure that with your good spirit you will have a fine recovery. You do remember that we agreed to meet at Stevens in 2022 for the 65th anniversary of our class. Jean and I have made plans to come to New Jersey to be at our 65th. We look forward to seeing you and other members of the Class of '57 at that time.



Nels Gravenstede '58 sent an update.

"As you know, our wedding was blessed in the Roman Catholic Church on Oct. 13, 2019. This was necessary because Jean, a Catholic, and I were married in the Lutheran Church 60 years ago, so this was a double celebration — our 60th anniversary and a blessing from the church. Now Jean can receive all the sacraments, as a practicing Roman Catholic. For the last couple of years, Jean had been unhappy about not being a Catholic. However, she did not mention it to me until recently. Well, we did something about that, and now she is very happy; all went well.

"We had a lovely ceremony at Saint Paul's RC Church in Jacksonville Beach, Florida. Father Houle performed the blessing. There were 60 who came to the church. Afterwards, we had a reception at the Ponte Vedra Lodge and Spa, a beach club on the ocean to which we belong. There were about 50 at the reception, including Blanche and **David Haid '57**, and Veronica and **Neil Wickersty '60**. We had an open bar with hors d'oeuvres. There were three of us from Stevens; it was good to talk to Dave and Neil. Jean is one of ten children; her brother, Robert Kenney, the only remaining sibling of the ten, came to our wedding. Robert is 90 years old. He came all the way from Tinton Falls, New Jersey, to be at his sister's wedding. There were lots of tears.

"We are planning to have a delayed honeymoon. We are taking a transatlantic repositioning cruise onboard the Sky Princess. The cruise ship departs from Fort Lauderdale on April 11, 2020 and arrives in Copenhagen on April 25. We plan to stay in Copenhagen for nine days before flying back to the States. I still have five cousins who live in Copenhagen, so we have many to visit. As you know, I was born and raised in Copenhagen. I wish one or two of my classmates from Stevens would join us onboard the Sky Princess. It is the newest ship in the Princess fleet of cruise ships. It should be a great trip, with lots of ports of call. Best Regards, **Ib Anthon Berg — S.J. "Chuck" Filippone, 84 Paul Place, Fairfield, CT 06824-5836; (203) 254-3197; sfilippone@aol.com**

'58 Nov. 4, 2019 — As I write this log, it is mid-fall and my wife and I just returned from visiting our granddaughter who is starting her second year at a large college in Virginia — a little bit overwhelming since the college takes over the entire city (Harrisonburg in this case). I imagine many of you have done the same thing. For a moment, I asked myself would I like to be in her



Herb Goller '58, an entrepreneur and professor whose company developed prosthetic devices, passed away in July 2019.

shoes starting over again — and my answer was "no." I thought back to what we had — a more colorful Hoboken in the '50s, a close-knit community where you knew everyone in your class, the picturesque old buildings (really means falling apart), the eccentricities of the faculty (e.g. Black Matt, Professor Fife, et. al), a walkable campus, a clinging to the traditions of summer camp and senior trip and a tenuous link to "old school engineering" as we served as the bridge to the oncoming computer age. (No one cared much about computers then since they were part of the Industrial Engineering Department and used to run machine tools.) We got, in addition to a great education, a sense of the importance of leadership, teamwork and integrity (via the Honor System), all essential to success in our chosen field. No, I'll stick with the memories (even though we and many others were carpoolers and didn't have the benefits of living on campus).

Unfortunately, once again I have sad news to report. I received a note from Mrs. Marianne Goller, informing us that her husband, **Dr. Herbert Goller**, passed away on July 3, 2019, in Annapolis, Maryland, at the age of 87. She also provided a pamphlet highlighting his amazing career. After obtaining his Ph.D., Herb taught at the University of Virginia and George Washington medical schools, eventually forming his own company to produce prosthetic devices, e.g. artificial arms, legs, etc., which was quite unique and successful. I was glad I was able to talk to Herb at our 50th

but we missed him at the 60th because he and Marianne, who were world travelers, were off on a jaunt at the time. The thing I remember most about Herb in our college days was him being a military veteran who had strong opinions in many areas and would not hesitate to advise us young inexperienced freshmen. He will be missed.

On a happier note, finally after a long delay, we learned that our **Bob Walker** will be inducted into the Stevens Athletic Hall of Fame. We congratulate Bob on his accomplishment, but asked what took them so long? Bob was captain of the successful basketball team for a couple of years and at times active with the soccer and lacrosse teams. Bob is still very active — a mainstay of our reunion committee, and attending all of our committee meetings, reunions and Old Guard luncheons, etc., making that long trip through the city from Long Island. See page 4 for more on Bob's induction; we look forward to seeing his well-deserved plaque in the athletic building. We look forward to seeing his well-deserved plaque in the athletic building.

It was a sparse turnout for the class of '58 at the fall Old Guard Luncheon, only four of us: **Mestanas, Walker, Fiocco and Bonner**. It did provide an opportunity to view progress on the construction of the new building (which includes the "Harries" tower). I learned that they had some unique problems; because of the terrain, they had to build a tunnel under the existing Howe Center just to let the construction vehicles through. The foundations, though, are in place and they appear to be on schedule. This is important because the second thing I was able to do was pick up a copy of the weekly *Stute*, the student newspaper as

you may recall. I was surprised to see two articles or letters submitted by two very disgruntled students. They claimed that the construction has disrupted schedules, made it difficult to get to class, caused relocation to apartments all over Hoboken (Jacobus and Hayden dorms are gone), and, in general, they felt like they were losing the whole year of study. While I was glad to see that *The Stute* did not hesitate to publish these negative views, I was surprised that construction on the campus boundary would impact student life as much as these students claim.

Just before submitting this column, I received a letter from **Nels Gravenstede** giving me an update on his activities. We, of course, are eternally grateful to Nels for hosting our infamous "pig roast." You may recall that Nels' homestead way out in Jersey was a haven for machines of all types — two-wheel, four-wheel, etc. Apparently over the past couple of years, they have been biting back since Nels has sustained some serious injuries, torn muscles, dislocated vertebrae, etc., but a good physical therapist has brought him back to near normal. Nels' main job though is taking care of his wife of 55 years, Audrey, who has had Alzheimer's disease for the past ten years. They still do everything together, but at her pace. Nels still flies his two airplanes almost weekly and finished by saying he was going to work on his milling machine. A true character of our class, someone to be very much admired!

So you see even for a small school we have our unique individuals (my favorite though is still the late **Dr. Robert Kwik**, who after divinity school, fought off elephants in Africa as part of his missionary work, then went on to study at the

Sorbonne in Paris, finishing up designing nuclear power plants in Texas!).

Once more — send me some news! Text me at 732-890-5940 or call 732-869-1817 or email: mfbonner@optonline.net. Thanks. — **Michael F. Bonner, 329 Sylvania Ave., Avon by the Sea, NJ 07717-1242; mfbonner@optonline.net**

'59 Nov. 1, 2019 — Since the last issue of *The Indicator*, in which I reported about the truly great 60th Reunion, I have received a letter from Carol Murdock, wife of **Don Murdock**, who passed away in May: "Don was born in Jersey City, New Jersey, the fourth son of Irish immigrants Ellen Rowan and John Murdock. He attended Kearny schools and then graduated with honor from Stevens Institute of Technology with a degree in electrical engineering. After graduation, he moved to San Diego with his wife, Carol and worked for Convair Astronautics for four years. He then joined the Navy lab on Point Lorna and worked there for 31 years doing underwater sound research. During that period, he and another co-worker obtained a patent for 'Calibration Circuit For Expendable Sonobuoys.' In retirement, he enjoyed travel with their RVs to Alaska five times and to our National Parks in the western states. He also enjoyed listening to all forms of music, fishing, dancing and wine tasting. He was active in the Tremble Clefs, which is a singing organization for Parkinson's disease victims and caregivers. He leaves wife Carol, daughter Joan, son Kevin (Kari) and daughter Patricia (Tony). Also, four granddaughters: Kimberly, Emily, Kaitlyn and Kendra. Predeceased is another granddaughter, Kelly Marie.



At left: Sally and Alan Margreither '60 wed in 2018; read more in the '60 log.

Leo Collins 59's photos of the World Trade Center (right and below) and other 9/11 subjects appeared in his exhibit last fall at the River Edge (NJ) Free Public Library.



"Don survived with Parkinson's disease for 20 years, which is amazing. He did well until the last four years of his life. At the end, he was unable to stand, walk or talk, which was frustrating for both him and me. The last six weeks, he was either in the hospital or in a nursing home. He wanted to stay at home for as long as possible, and he was a brave fighter. Sincerely, wife for 60 years, Carol P. Murdock."

We also have some news to report about the ongoing accomplishments of our alumni. **Leo Collins**, who is an accomplished photographer, was invited in September by the River Edge (NJ) Free Public Library to exhibit his photos and artwork for the show, "Memories of 9/11." The exhibit paid tribute to that tragic day, with a variety of work by Leo: photos of the Twin Towers the weekend before 9/11; the Freedom Tower today, as seen from Castle Point; scenes from the 9/11 memorial at Liberty State Park; a photo montage paying tribute to local people and friends who died on 9/11; among others. See some of Leo's photos near this class log.

I'm sure that your classmates would like to hear from you, so please write, call or send an email! — **George C. Pezold, 120 Main St., Huntington, NY 11743; (631) 271-8817; george.pezold@transportlaw.com**

Alumni Weekend reunion, June 5-6, 2020

'60 Nov. 1, 2019 — I received an email from **Alan Margreither**. "Hi Don, I wrote to you a year ago but it must have gotten lost. Anyway, Arlene died in 2014 after 51 years together. She died as a result of the complications of Parkinson's disease. So, after a year of mourning, I decided to re-enter the human race.

"I got married a year ago in June to a Florida girl in a beautiful beach wedding. I've included a photo from this wedding. It was beautiful!

"My new wife is our age. Her name is Sally. Sally has one son who is married but has no children. Sally has acquired, as a result of marrying me, a lovely daughter, a handsome son, three beautiful granddaughters, two handsome grandsons, a handsome great-grandson and a beautiful great-granddaughter! Talk about instant families!!

"I now live in Bradenton, Florida, in the condominium that Arlene and I wanted to retire in. Sally has redecorated it in her own fashion, and I love it!

"I went to an Old Guard Luncheon two years ago and met **Dalton** and **Muldowney** in the elevator. They looked, for the most part, like I remember them. I had to introduce myself because the last time I saw them I had hair on the top of my head and none on my upper lip!

"Don, I am looking forward to coming up to celebrate our 60 years. I hope to see you there! Regards, Alan."

My reply was as follows: "Dear Alan, Good to hear from you and your guts on 're-entering the human race' by starting over with a new wife. We are all at the age when we face similar decisions. Thank heaven for the grandchildren and great-grandchildren. They will keep you young. Don."

We are all at an age when we face similar decisions that Alan had to make. I give Alan credit for staying the course. It is not an easy decision to make. Alan wanted to know what is happening for our 60th Reunion. I report that the Class of 1960 officers, under the leadership of John Dalton, are already planning the reunion. I am sure that you will all hear more — especially if you are on the Class of 1960 eblasts. Make sure that John and I are on your email list. — **Don Merino; dmerino@stevens.edu**

'61 Nov. 1, 2019 — I'm very grateful that my recent plea for class log material was answered promptly. Many thanks to **Wayne Knapp** and **Spyros Polemis**.

Class President **Fred Dietrich** asked me to note that the upcoming 2020 Alumni Weekend coincides with the 150th anniversary of Stevens. The Class of 1960 has extended an invitation to the classes of '58 to '62 to celebrate this milestone with them with some specific get-togethers during the Alumni Weekend. It is a great opportunity to renew acquaintances with all the guys we knew on campus.

I completely missed Fred's email in January that **Paul Hausmann** passed, with an accompanying obituary. As I didn't see any mention of that in recent *Indicators*, it's appropriate to cover that.

"Paul Jules Hausmann of Gladwyne, Pennsylvania (and most recently Champaign, Illinois), passed away on Jan. 8, 2019. He is survived by his loving wife of 56 years, five children and ten grandchildren. Paul grew up in Weehawken, New Jersey. He graduated from Stevens in 1961 and Harvard Business School's Advanced

Management Program and spent his career in the forging industry, primarily with Wyman-Gordon Company, where he rose to the position of vice president-general manager, and then with Clifford-Jacobs Forging, as president and chairman. He was elected by his peers to a term as president of the Forging Industry Association and served additionally on hospital, school and church boards. He loved to golf and bicycle.

"Paul's career with Wyman-Gordon moved him and his family across the country over a 25-year period: from Worcester, Massachusetts, to Cypress, California; Flossmoor, Illinois; Jackson, Michigan; and back to Worcester. After retiring from Clifford-Jacobs Forging, he and Marjorie spent the last 20 years in Champaign, Illinois, including summers on Cape Cod. In September, they relocated to Waverly Heights in Gladwyne, Pennsylvania."

From Wayne Knapp: "I started Stevens in fall of 1955 (Class of '59) with many Korean War vets, including my brother **John Knapp '59** and **George Pezold '59** but fell behind and transferred to NCE. With the financial support of my mother, and the 1957 marriage to my lovely wife, Lorraine, I returned to Stevens in 1959 and graduated with the Class of '61. Besides marriage and family, I have always been interested in airplanes and astronomy. I chose the B.E. degree at Stevens and went to General Electric in Syracuse, New York. My first assignment was on the 412L radar sweep frequency generator, and I found electronics very frustrating.

"My second assignment was on the 412L Light Valve display system, which had some optics, hooray! I was sent to Germany as a troubleshooter for the fielded systems. In 1964, 600 of us were called to a meeting saying we were being 'phased out.' One of my co-workers spotted an ad in the paper for an optical engineer at ITEK Corporation near Boston, and he said I should apply. Sure enough, I interviewed and got the offer as an optical designer. Little did I know how well things worked out, with my interest in designing optics and ITEK's desperate need for optical designers to improve the Corona spy satellite optics.

"I started as a detail optical designer, worked up to manager of the optical design group, Optical Engineering, and ended up as assistant director of the Large Optics Directorate. We initially focused on fine tuning and improving the Corona optical system. The Corona program was highly classified since its inception and was declassified in 1995.

At the declassification meeting, the attendees included the involved federal agencies, industrial contractors, and Nikita Khrushchev's son!!! The son gave his perspective of his father's fear of the U.S.A. Let it be known that Corona beer flowed freely after the formal declassification.

"The same camera optics used in Corona was also used in the Apollo Lunar Orbiter to photograph the moon from orbit. ITEK optics were used on the Mars Viking Lander in 1976, and the Hexagon reconnaissance satellite program during the late 1970s and 1980s.

"The 2011 declassification of the Hexagon program in Danbury, Connecticut, was very important to me. My wife and children attended and could finally know what we employees could never divulge during all those years of secrecy on covert programs. The Hexagon satellite is the size of a school bus and is on display at the Wright Patterson AFB Museum in Ohio.

"I separated from ITEK in 1994, and after a year I landed a job at Precision Optics in Gardner, Massachusetts. Initially, I worked on night vision optics development. We manufactured the optical components of the night vision device used in Desert Storm. However, our main thrust was in medical endoscopes used for minimally invasive surgery. Around 2000, we developed a stereo endoscope used by Intuitive Surgical's da Vinci System for robotic surgery. I had a chance to buy Intuitive stock for \$8 a share and never did — now it is over \$500 per share — and that shows you that I am not too smart after all.

"I have had a passionate hobby of flying sailplanes for the past 49 years. I am a certified flight instructor with over 1,000 flights, have raced sailplanes in contests and been up to 20,000 feet in the lee wave behind Mount Washington. I now play golf in a senior league. Lorraine would be miffed if I didn't mention we have four daughters, Lauri, Karen, Sheri, and Lisa. They all live close by in Massachusetts or New Hampshire. We have 15 grandchildren, and one great-grandchild. We still live in Sudbury, Massachusetts, near the famous Longfellow's Wayside Inn. Hope all is well with my classmates from both 1961 and 1959, sincerely, Wayne."

From Spyros Polemis: "My wife, Stacia, and I spend most of our time between Greece and Cyprus, having left London in 2017, where I had been for 47 years, following my three years working in New York, 1967-1970. We are currently in Athens, surrounded by beautiful scenery, sea and people.

"The biggest event of this year has been the

graduation of our daughter Katerina from the University of Michigan, with a degree cum laude in naval architecture and marine engineering. During her four years, she achieved much, notably being chosen commodore of the Quarterdeck Society of SNAME. She remained there to get her master's, whilst at the same time, she is a GSI (Graduate Student Instructor), teaching 75 freshmen programming. Stacia and I go to Ann Arbor periodically to spend some time with her.

"As for me, I go to the gym twice a week, and walk and swim almost daily, so I am quite fit for an 82-year-old, despite various health problems. I continue to work daily, albeit less hours, and am still active within the shipping industry. I also keep busy with personal writing projects, namely an autobiography, the history of my family in shipping, and the history of Greek shipping starting in 10,000 B.C." — Jay Wartell; letraw@yahoo.com

'62 Nov. 1, 2019 — You might recall a number of years ago I reported that a moose had visited us early one Sunday morning. Well, it has happened again. Just last week a number of us spotted a young bull moose moseying down the street past our house, and this time we could prove it with photos.

But that's enough of the north woods, and now on to the 150th anniversary of Stevens' founding, with celebrations planned for Alumni Day and throughout 2020. Your officers are discussing our class participation both for our 58th and possibly as a group to include all classes in the 1960s decade. You can help with a show of hands of those interested in attending the festivities on Alumni Weekend. Please send any of our officers an email indicating your intentions to attend the celebration.



The Stevens Metropolitan Club gathers for one of its monthly meetings. From left: SAA Executive Director Emeritus Anita Lang, Joe Weber '64, Leon Hojegan '61, Marty Valerio '68, John Stevens '72, Bill Landau '72, George Zacek '65, Matthew Eisenberg '69, Joe Schneider '46, Tom Moschello '63, Tom Bentley '63.

You may remember Lou Capuano's impending trip to Greece? Well, it was successful, and he writes, "Carla and I traveled to Greece and Turkey in June with our grandson, Brenden, to celebrate his graduation from The Steward School in Richmond. He is now at Virginia Tech. After visiting the Acropolis and Parthenon in Athens, we traveled to the Holy Meteora Monasteries built on the top of towering mountains, where you could not get any closer to God. It was truly unbelievable and a UNESCO World Heritage site! We returned to Kalambaka for dinner, dancing and great music.

"Our next stop was Olympia, site of the first Olympic Games in 776 B.C. Then back to Athens, crossing over the Corinth Canal, an amazing engineering accomplishment. The following morning, we boarded our cruise ship and headed to the island of Mykonos, where we marveled at the sunset and enjoyed a traditional Greek dinner with new friends. Then it was on to Kusadasi, Turkey. I wasn't sure I wanted to visit Turkey, but this was one of the best stops on the cruise. We visited the ongoing excavations of Ephesus, which dated back to the tenth century B.C., where an incredible advanced civilization has been uncovered that even had indoor toilets (not holes in the floor) and running water. Next, we went to a school where they were teaching the ancient art of handwoven rugs, and to a showroom where they sold them. We were persuaded to purchase two beauties, which were personally delivered to us in Williamsburg, Virginia, by a salesman from Turkey! Our next stop was Rhodes, where we took a break from the tours and spent the day at the beach, swimming in the absolutely clear waters. We didn't want to leave!

"It was then on to Crete and to visit the ancient city of Knossos. Here, we saw the excavated residence of King Minos and the Labyrinth

of the Minotaur, as well as beautiful pottery and frescos. The next stop was the much-anticipated Island of Santorini, which was quite beautiful, but disappointing because of the crowds from too many cruise ships! Back in Athens, our last excursion was to the Temple of Poseidon overlooking the Aegean Sea.

"Overall, it was a wonderful trip until returning to Newark Airport! Our flight to Dulles was cancelled and the airport was a nightmare. We ended up renting a car and driving ourselves to Dulles the next day. As we all know, nothing is perfect, but I wish we could drive across the ocean instead of flying."

Juris Kaugerts sent a nice note saying, "It has been a while since I last saw you. I believe we don't really live that far apart. I shop in West Lebanon, New Hampshire, which is not far from your house, if I recall correctly.

"Well, I am still alive and living in Hartland, Vermont, just outside Woodstock. A few years ago, I got in touch with a former high school classmate, one year behind me, to pass on the sad news that a former boyfriend, and friend of mine, had died. We ended up getting married and have been together, living in my house, for the past few years. I wonder how many of our classmates are still living. I guess there will probably be no reunions of our class anymore.

"My health is pretty good, and I mean to ride my Harley again, but have been too busy, or too lazy, to do it. I remember in the 1960s, a friend in New York and I traveled by motorcycle, a BMW for me, down to Florida, across to Southern California, up to San Francisco and back to New York. That's not for me anymore!

"Life here in Vermont is good. We belong to the United Universalist Church, which is like a social club, where they don't try to 'cram religion down your throat.' As they said on Star Trek, I think: Love long and prosper!"

We are most grateful to Lou and Juris for providing their news and updates. Now it's time for others of our classmates to please take a few moments to send an email to me at pbkim25@gmail.com about your plans for the 150th, current and planned activities, projects, hobbies, family trips, etc., that would be of interest to all of us. Also, high resolution photos are most welcome for inclusion in future class logs. — **Philip B. Kimball**; pbkim25@gmail.com

Don't see your class log listed? Send an update to alumni-log@stevens.edu or call 201-216-5161.

'63 Nov. 1, 2019 — After the last session with lots of news, it figures that this fall issue will be a little lighter.

Robert McGinn sent along the following note. "After 47 years, in January 2019 I retired from being a professor in the Stanford School of Engineering. To ease into retirement, in April, I accepted a 20%-time appointment as a professor in the University of California San Francisco School of Medicine's Center for Cellular Construction. My role is to help the Center's researchers explore ethical and social responsibility issues related to research and innovation in synthetic biology and cellular engineering. The Center's researchers are remarkable and the work fascinating.

"In July 2018, I moved from Palo Alto to Mill Valley, California, ten minutes north of the Golden Gate Bridge. My son, Brian, is executive producer and sometime director of the Netflix series "Chef's Table," currently in its fifth season. Check it out; I suspect you'll find many of the episodes fascinating.

"In April 2019, I spent a wonderful evening at **Dick Leichus's** place in San Francisco, with alums **Howard Oringer, Ed Henderson, Bruce Boylan** and **Bob Hills**. We shared stories about how we wound up attending Stevens. Bruce did a fine job preparing dinner and the wines were exceptional. In mid-September, my partner Birgit and I had lunch in San Francisco with **Richard Herman** and his wife Maria. In late October, Birgit and I will travel to New York City for a long weekend to attend performances of *La Boheme* and *Turandot* at the Metropolitan Opera. We plan to see **Richard** and **Carol Sard** while in town."

Mike Delevante says, "Still trudging on with designing craft distilleries and helping a still fabricator in China with the design of a continuous system, a bit more complicated than the one we had in chemical engineering lab at Stevens. Sorry I did not pay more attention to the things I learned in the labs; it would have helped, although I find that I understand very little about anything I did at Stevens except maybe P.E., humanities and the wonderful life we had there in spite of the absence of female students. Is it politically correct to admit that?

"I am also doing some product development for a few clients, mostly liqueurs. One of my clients 'Still Austin Whiskey' that makes bourbon, has launched a coffee liqueur with Delevante as the brand name. It may be the first coffee liqueur with a bourbon base.

"So that's it for me. My wife and I celebrated our 51st wedding anniversary this week. (week of October 20)."

In a message by **Dick Magee** that was dropped from the previous issue he mentioned, "I just finished an 18-month Congressionally mandated study on 'Alternatives for the Demilitarization of Conventional Munitions' conducted by a 13-member committee under the direction of the National Academies of Sciences, Engineering and Medicine. I have found these committee opportunities to serve to be challenging and rewarding. They also confirm the value of my Stevens education as I apply my problem-solving skills to new and emerging areas of national interest. I was also delighted to have been selected by Stevens for the Lifetime Service Award presented at the 2019 Stevens Awards Gala, held at the historic Plaza Hotel, April 6, 2019."

In the last *Indicator* issue, **Rich Fremgen** mentioned that they had very much enjoyed their barge-bike tour in southern France. In June, Carol and I did a boat-bike tour down the Danube from Passau to Budapest and it was great! We biked about 25 miles per day, and it was a really nice combination of eating good food, seeing the fantastic scenery and coming back to the same comfortable stateroom every evening. (About one-third of the people on the boat had rented electric bikes, and it was interesting to us to see them drinking beers at lunch. I know if I had a beer at lunch the pedals would have felt like they were made out of lead!)

Thank you to those folks who complimented me on that photo in the Fall 2019 *Indicator*. As I write this, we've had a couple of hard frosts and winter's on its way. However, when you read this, it'll be 2020 and some of us (maybe **Bruce Boylan**?) will probably be off on ski trips, but please keep the memory of Jules and Joe and contribute to the Class of '63 Scholarship Fund. — **Neville W. Sachs**; nevsachseng@gmail.com

'64 Nov. 1, 2019 — Dear Class of '64, After the summer of the 55th reunion of our class, things have settled down. Construction at Stevens is proceeding along and another well-prepared class has enrolled to carry on the Stevens traditions.

Over the summer, I was able to reconnect with **Gene Orosz** and his lovely wife Toni a couple of times. Gene was my roommate during our junior and senior years. He is retired and living in Duxbury, Massachusetts, where he



Several Class of '65 Theta Xi brothers gathered for lunch in Tarrytown, New York, in September. From left: Dick Hulbert, Pat Perrotti and Frank Semcer.

promoted his love of sailing into a gift to assist the functional needs community. Gene retired as director of ACCESSAIL for the Duxbury Bay Maritime School at the end of 2018 after ten years in that volunteer role. The ACCESSAIL program was developed by Gene over his ten-year tenure as a dedicated sailing program providing sailing opportunities for everyone regardless of their physical and/or cognitive challenges. The program had students with autism, Down syndrome, multiple sclerosis, cerebral palsy, paraplegia, quadriplegia and a variety of other

challenges including blindness. The program has received awards from both the Massachusetts Senate and House of Representatives along with a national award from US-SAIL. ACCESSAIL serves over 500 students over the June, July and August time period. ACCESSAIL uses two modified 23-foot O'Day sailboats (motor equipped) and manned by a crew of two specially trained skippers and deckhands.

It has been a busy summer for us. We spent many days visiting the grandchildren, now 2-and-a-half and 1. I am finding retirement busier than when I was working, or it just seems to be. Between volunteering at the local hospital and at local community events and continuing my part-time job for the city and all of its obligations, I am keeping plenty busy. We did get to spend some vacation time exploring the lovely city of Vienna and its environs this summer also.

I hope everyone had a great time during the summer and will let me know what they did. We need to keep our class log continuity going. I need your assistance and the only way is to keep me posted as to your life and times. So, keep those cards and letters coming. — **Harley Graime; hgraime@att.net**

Alumni Weekend reunion, June 5-6, 2020

'65

Nov. 1, 2019 — It will be early or mid-February 2020 when you receive the *Winter Indicator*. The leaves still on most trees are all yellow or red except for some hold-out trees and the evergreens that are unsurprisingly green. Two high-wind storms have damaged or uprooted trees in the past month but nothing like the weather in some other states or the fires in California. I hope you are all well and secure.

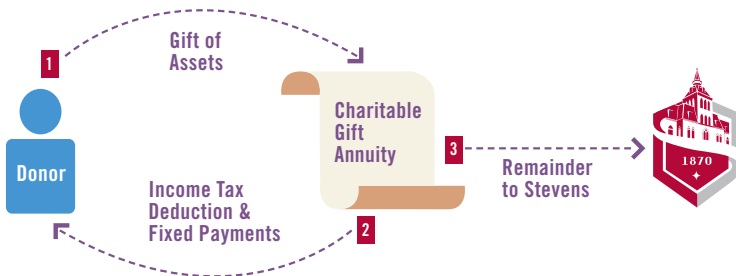
I expect that most of you have been contacted by your fraternity representatives about the 55th Reunion we are planning for 4, 5 and 6 of June 2020 at the Alumni Weekend, which I am sure you realize will also mark the 150th anniversary of the founding of Stevens. Independents in the class will have been contacted by Frank Lastrina or, more likely, **Steve Cochran** who has been dedicated to finding "lost" classmates.

You will also have received some mailings. We are planning to publish a logbook with entries from as many classmates as possible. Everyone who submits an entry will receive a copy of the logbook. Guidance for the content will be sent to

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you, but we want there to be plenty of scope so there will be more personalized entries.

Attending the 55th Reunion may be a good idea as the 60th in 2025 may seem a long way off.

Rather than me telling you about how Stevens has progressed, I asked **Hank Troy** to update an earlier account of his impressions of Stevens today.

From Hank: "I had shared in a prior class log (Summer/Fall 2016) that I have been fortunate to have two grandchildren attend Stevens. Well, now, three years later, I have two grandchildren who are Stevens alumni just like the rest of us!

"If you will permit me some grandparent bragging; granddaughter **Kate Moyer '16** is scheduled to defend her doctoral thesis in November 2019 at Vanderbilt, and grandson **Paul Moyer '19** graduated this May and took a break from full-time studies and is working as a biomedical engineer. I had an unforgettable experience at his Commencement exercise, where I was invited to join the procession into the event in full academic regalia of an Old Guard alumnus.

"The Commencement itself was a great opportunity to contrast the Stevens of 1965 to today's Stevens. The highly spirited Class of 2019 consisted of about 700 graduates, about one-third of whom were women. In 1965, we graduated about 220, all male. By the way, it appeared to me that the women garnered more than their one-third of the honors at Commencement!

"In 1965, we graduated B.E.s, B.S.s, and M.E.s. Stevens now also awards a B.A., and there are about three dozen major fields of study. While I'm sure that the number of majors was expanded to attract students and to meet society's needs, it has given students much greater freedom and flexibility within Stevens. Unlike the days of 'look to your right, look to your left, etc. etc.', now if you are good enough to be accepted at Stevens, the odds are good that you will graduate. My grandkids were very successful students at Stevens. However, bright as they were, they worked their butts off for four years. Stevens is still a 'grind.' Its program is rigorous, and the product produced at the end of the process is still outstanding engineers.

"If you are planning to be in the vicinity of Hoboken, I urge you to visit the campus (better yet, mark your calendar for our 55th anniversary reunion in 2020). The changes to the campus and physical plant are quite impressive. Also, hang around to take in an athletic event and get caught up in the spirit of the place. You will leave with a renewed confidence and pride in our alma

mater. Hope to see you at our 55th (June 4, 5 and 6, 2020). **Hank Troy.**"

From **Steve Cochran**: "I began contacting our classmates with ambivalence, but it's become an obsession. I've become quite proficient at finding our lost brethren. Most have retired; many have moved to warmer climes, others followed grandchildren and some downsized, so addresses, phones and emails have all changed.

"Calling is a crap shoot. I am inured to disconnected numbers, faxes, endless rings, wrong numbers and hang-ups. If phones don't work, I send blanket emails by putting all the emails I've found in the address line, sending my standard letter, then waiting for the MAILER-DAEMON messages. If there are no good emails, I'm down to snail mail.

"You'd think I'd be deluged with returns — you'd be wrong. As a joke, I sent one titled, 'Proof of Life Request' with zero results, which confirms that our curmudgeons are resistant to blandishments and threats.

"If you have responded, thank you. You have done some amazing things, and it would be a shame not to share them. So, if you haven't responded, please do so!" — **George Greene;** gwgrene43@hotmail.com

'66 From **Gerry Osborne**, November 2019 — We were so sorry to hear of the passing of class secretary **Steve Fields**, who died on June 15, 2018. An obituary will appear in the next *Indicator*. I have since agreed to serve as your class secretary. Here's a short overview of my life and career.

I grew-up in metro New York and New Jersey but have lived at 33 different addresses and traveled to all but one U.S. state, plus about 20 foreign countries. While I started work with Babcock & Wilcox as a field engineer, my roles included many positions in design, marketing and business management. My 20-year run with B&W ended in 1987, after receiving an M.B.A. from Ashland University. I retired as general manager for Chicago Tube & Iron in 2011, with stops at other power-related firms, plus a bio-engineering start-up. I stay active assisting or leading a number of non-profits. I live at 4333 Glen Eagles Lane SW, Concord, NC 28027 (704-425-5722), but my wife, Carolyn, and I travel regularly for personal enjoyment and to see our three sons and six grandchildren. I look forward to hearing from you! — **Gerry Osborne;** scandia44@twc.com

'67 November 2019 — Dear classmates: The photos that I submitted with the previous log were not published. So, we are working from a deficit. I shall follow the principle of "First in, First out." Our next log will contain a photo of Bob Jessup, while photos meant for the last issue appear on page 56.

From **Bob Jessup**, "Loved every minute of my Air Force career. Besides a combat tour flying in South Vietnam and Cambodia, I got to live in and tour Europe and much of the Middle East. I got to fly the world's best fighter, the F-15, in the U.S., Europe and a number of unnamed Middle Eastern countries. My wife Sherry and I even had drinks with Prince Charles at his Highgrove summer estate just before we left England. I retired from the USAF in 1994 as a full colonel and, a month later, went to work for Fulton County (Georgia) government, retiring in 2009. Participated in two mission trips to Moscow, Russia, before leaving Georgia via our 2007 fifth-wheel RV. We travelled much of the western U.S. Eventually we settled in Harlingen, Texas, for five years, returning to Georgia for the next five years.

"We recently relocated back to Harlingen, where we plan to stay put. Neither of us was born in Texas, but we got here as fast as we could! Except for two years in an apartment, we've been full-timers, living the RV lifestyle since mid-2007 when we sold our Georgia home and went the RV route. Several months ago, we stored our RV and bought a small place in an RV Park here in Harlingen. We enjoy the people, the area, the mild winters and shopping trips into Mexico, the border town where most Americans shop being only a 35-minute drive away. We also are fortunate to be a 45-minute drive from the beaches and wonderful seafood on South Padre Island just off the mainland in the Gulf of Mexico. We've also been blessed not to have had any hurricanes make landfall near us since we've been here. My health has held up, and we are enjoying this period of relatively stress-free living the Good Lord has given us."

I suspect Highgrove summer estate is in the Highgrove Royal Gardens about 100 miles west of London in the southern parts of the Cotswolds.

From **Neill Myers**, "I am still working at NASA Marshall Space Flight Center for the past 52 years. I am considering retiring and then working the same job part time with a contractor.

"I recently received NASA's highest honor, the Distinguished Service Medal. My two daughters

are close by. One in Huntsville, Alabama, with one grandson, the other about an hour south in Oneonta with three grandsons and one granddaughter."

Turns out there are at least two Oneontas, one in Alabama (population 6,638) and another in New York. Neill sent me several attachments about his Distinguished Service Medal, and I herein provide several excerpts:

"... distinguished service, ability, or courage, [that] has...made a contribution representing substantial progress to aeronautical or space exploration in the interests of the United States." "... expert in the design of space propulsion systems ... awarded 27 patents... NASA Marshall Space Flight Center Inventor of the Year three times. His 2017 development of the Variable Aperture Reciprocating Reed Valve was critical to the development of a specialized fluid damper design... successfully transferred NASA technology into commercial use."

Your class secretary anticipates that Neill, called William at NASA, has the longest tenure with any single employer (52 years) of everyone in our class. Perhaps of all who have ever been a Stevens graduate. Perhaps of all who have ever been a college graduate. I subtracted 1967 from 2019 and, if my trusty brain is working, arrived correctly at 52! Neill must have begun the first Monday after graduation. Congratulations to you, Neill. (*Editor's Note: Neill Myers was profiled in the Winter 2016 issue of The Stevens Indicator. See also: stevens.edu/neill/myers*)

Melinda and I are off soon for a two-week cruise through the Panama Canal. I am rushing off to do some packing! Be well, all. — Jeffrey I. Seeman; jiseeman@yahoo.com

'68 Oct. 31, 2019 — I hope this winter log finds all of you in good spirits and health. By now, you are either going through the depths of winter in the North or are basking in the mild winter sun of the South.

I've not received any new info from anyone, so I'll continue with excerpts from the Class Logbook developed for our 50th reunion.

Next on the list is Alan Brooks. Alan graduated with an engineering degree, majoring in chemical engineering. Currently, he and his wife, Kathy, live in Westbrook, Connecticut. Alan provided the following information: "My wife retired in June 2013, one day before I did. She was a science teacher and also served as middle school

science coordinator. A New Jersey girl I met at an Alpha Sigma Phi fraternity party, we have been married for 47 years. She currently works as an educational consultant for the Capital Region Educational Council in Connecticut.

"We have five children. The oldest, Thom, got his Ph.D. and lives in England with his wife and daughter. He is the head of the law school at Durham University. He has written numerous books, does consulting, wrote with members of Parliament on immigration matters, does interviews on political matters on British TV and writes a regular newspaper opinion column. Next is son Bill, who lives in Connecticut, as do the rest of our children. He is married with one daughter. After shortly pursuing a career as a professional firefighter, he changed his path and became a union electrician. He worked his way up to foreman and is also an instructor at the union apprenticeship school. Our oldest daughter, Liz, is married with a son and daughter. Liz received her Ed.D. and presently serves as director of student services for a high performing school district. Previously, she was a special education consultant for CREC. Our second daughter, Cindy, is married with one son. She is a corporate accountant, started with IBM, and later switched to a health care manufacturer. An avid runner who runs literally every day, she just completed

a 50-mile run. Cindy's twin brother, Mike, is a high-end major appliance sales manager at the hardware store where I last retired from working as the hardware manager. He is doing well and is currently not married.

"My career after graduation began at Edgewood Arsenal, Department of the Army in Edgewood, Maryland. This arsenal was in charge of the development and manufacture of chemical munitions. Assigned to the Plant Design Section, our group got heavily involved with pollution control and waste disposal soon after I arrived. When Congress decided to reduce our chemical munitions supplies, our small group of about 15 individuals got the directive to develop a transportable demineralization system that could be moved to all chemical munitions depots in the U.S. to dispose of those items. As I struggle to recall, we controlled between 25-50% of the arsenal's annual funding.

"I married my wife after I had been working at Edgewood for four years, and we lived in a single apartment attached to a private home in Joppa, Maryland. After five years at Edgewood Arsenal, I got tired of all the paperwork involved with my job, so I moved back to Connecticut to run the family business — a retail store selling bicycles, toys and hobbies, with two locations. I enjoyed that part of my life very much but, unfortunately,



Some Class of '67 members and family, from top left: Dan Rusinak's wife Maryanne with their daughter Kirsten, in Dublin last July; Tom and Claudia Corcoran celebrated their 50th anniversary on June 28, 2019, with family and friends in Potomac, Maryland; Hank and Christina Berry at the Wauwinet Inn on Nantucket Island, Massachusetts, last July.

I got burned out after 22 years. I closed the business in 1995 and spent the next three years in the outdoor power equipment world while I figured out what I was going to do next. I joined a local hardware store where I became the manager. I was back in retail and now using my life skills helping customers solve their unique problems. After 15 years of this wonderful experience, I decided it was time for me to retire. I had worked enough and sacrificed my home life in the process. It was time for me to enjoy life.

"I retired in 2013. Two years later, we sold the house we lived in and where I was also raised and moved to Westbrook to a contemporary ranch home for one-level living. Now I finally have the time to work around the house making improvements and doing maintenance."

That's a great story, Alan. Thanks for sharing the last 50-plus years of your life with us.

Footnote: Alan prepared this dialogue in the spring of 2018, so some information might be inaccurate at this time. Alan, if you'd be so kind as to update me if necessary, I will re-publish.

That's it for now. Don't forget to join our class Facebook group page.

Till next time, stay safe and healthy. — **Allen A. Foytlin**; foytlin01@gmail.com

'69 Nov. 1, 2019 — Please share any of your travel adventures, special family events or news about your hobbies, passions or, God forbid, work, so that we can share it with our classmates.

We had a terrific class reunion last spring and we renewed a number of old friendships. We would like to provide you with the opportunity to continue to connect with your classmates, so share with us what's going on.

In October, **Ed Eichhorn** and **John Emmerling** got together for dinner when John was back in New Jersey to address some family issues. John has lived in Colorado for a number of years after spending most of his career tackling difficult engineering and system challenges for General Electric. Today, John is off on a totally new adventure. With a group of colleagues in Colorado, John started a newspaper! John is the president of the *Fremont County Crusader*. They publish their paper every Friday, and I believe that their circulation and advertising continue to grow.

Ed Eichhorn is barnstorming around the region to promote his recent book, *Healing American Healthcare* by giving talks on the ups and downs

but especially the possibilities for improving health care in America. His very first talk on this subject was at the fall luncheon of the Old Guard at Stevens. It was an animated discussion with great questions as is always the case at this luncheon in the spring and the fall of each year. Ed was also the keynote speaker at the New Jersey Healthcare Financial Managers meeting in Atlantic City in the fall. His speaking engagement schedule has been picking up as interest in understanding the issues of health care grows the closer we get to the 2020 primary season.

Gerry Crispin has been heard claiming he will cut back next year on his 1k+ travel schedule. His wife, Diane, says she'll believe it when she sees it. He does seem to be having too much fun at work for a 72-year-old. As this is being written, he is in London for the last of 11 meetings geared to helping large-scale employers benchmark emerging technology hiring practices. Think robot interviewers. Next week, he heads to Singapore with an HR delegation to study how employment is invented in that region.

So please share your exploits with us. We would love to hear from you. — **Ed Eichhorn**; ed.eichhorn@medilinkgroup.com; **Gerry Crispin**; gcrispin@careerroads.com

Alumni Weekend reunion, June 5-6, 2020

'70 Nov. 1, 2019 – I was in Houston, Texas, recently for an ASTM Committee Week and was able to reach **Rich Stack** and his wife, Pat, who live in Sugarland, Texas. Rich picked me up at the hotel after my meetings were done, gave me a nice tour of Houston and Sugarland, and we had a nice lunch before he took me to Hobby Airport. After graduation, Rich spent 25 years overseas on various petrochemical projects before returning to Houston. Both of his daughters were born overseas; one is currently a major in the U.S. Army stationed in South Korea with her husband and children, and the other works for Chevron in



Class of '70ers Gene Golebiowski, left, and Rich Stack reunited in Houston last year. Read more in the '70 log.

Australia along with her husband.

Rich is originally from Perth Amboy, New Jersey and he mentioned he is looking forward to attending our 50th reunion next year and visiting friends and family. Rich also indicated he would like to go into New York City and visit The 9/11 Memorial Museum. Included with this log is a selfie Rich took of himself and me. Rich can be reached at rhstackjr@hotmail.com.

Lance Labun also provided a current picture of himself in response to the suggestion of **Doug Sulzer** that we all should provide recent pictures, so our classmates know what we look like now before attending our 50th reunion. We have tried to post this picture to the mailing list of the Class of 1970. If this is not successful, we will soon have an additional way of keeping in touch and distributing information regarding our 50th reunion.

The Alumni Association is setting up a dedicated Class of 1970 website for us where we will be able to post information and pictures as we approach our 50th reunion. We should all soon receive an email from Stevens regarding how to access this website.

The reunion weekend will be held Friday, June 5 and Saturday, June 6, 2020. There will be a block of hotel rooms available at nearby hotels. For those of us who have not been back to campus for years, there is now a W Hotel a few blocks south of campus in addition to the Sheraton Hotel in Weehawken, near the Lincoln Tunnel.

Rather than start from square one, the Class of 1969 will share with us their approach that resulted in more than 50 classmates and significant others attending their reunion this past spring.

Don't see your class log listed? Send an update to alumni-log@stevens.edu or call 201-216-5161.

Our current plans are to have an off-campus dinner at a Hoboken restaurant on Friday after the on-campus cocktail reception for all reunion classes. On Saturday we will have reserved tables at the dinner dance. The Class of 1969 had a trip to New York City on Thursday as quite a few out of town classmates attended. We will need feedback from you, our classmates, if this is a preferred option or if this should be a consideration for Friday (using PATH or the ferry to avoid the traffic trying to get out of New York City for the weekend), Saturday morning or Sunday. The 9/11 Memorial Museum would be interesting to see as the Twin Towers were there during our years at Stevens.

With all this said, we will be sending each of our classmates a survey/questionnaire for two purposes: gathering your preferences for our 50th reunion and obtaining information to share in a 50th reunion class logbook. The Class of 1969 compiled a great remembrance of their reunion that included historical headlines from their four years at Stevens, local campus events during these years and individual personal updates. Please respond and let us know if you can help us make this a successful event. Stay healthy and safe and make plans to attend!

— Eugene Golebiowski; egolebiowski@att.net

'71 Nov. 1, 2019 — Joy and Phil Winkler are enjoying life in the Villages in Florida and had dinner with Michael Governor, Stevens' director of planned giving. Mike gave them an update on SIT, and the improvements that Dr. Farvardin has made since becoming president in 2011. Phil didn't say if he was pledging all or just half of his 401(k) to Mother Stevens.

Bruce McNair writes that he hasn't had much news to report in the last 50 years, but the write-up in the Fall 2019 *Indicator* on Victor Skrowronski's experience interviewing with the Bell System got his attention, since it resonated with his. He signed up for an on-campus interview with NJ Bell and was told that he would be the perfect candidate for Bell Labs but, unfortunately, they and no one else from the Bell System was hiring that year. He thought to himself, "Thanks a lot — we're allowed 15 on-campus interviews this year and you just wasted one of them!"

Bruce also interviewed with GE Aerospace in Pennsylvania and thought he aced the interview, but listening to the radio driving back to Stevens, he heard the news that the Super Sonic Transport

program had been cancelled by Congress, the program that he had interviewed for. Besides ending his job prospect, he thought about the people he talked to who had been there 20 years with a ton of work experience in an area that was about to become useless.

After applying to Bell Labs several times through the following years, and obtaining the recommended master's degree, he was finally hired in 1978. He settled in Holmdel, New Jersey, and planned to work for Bell Labs until retirement — but just didn't plan on retiring at 52. He had been promoted, joined the research area and was finally doing the wireless work he loved — and then AT&T decided to get out of the wireless business for the second time (before reentering it a few years later for the third time). He was told: "We don't need a wireless research department if we aren't in the wireless business anymore and, besides, the cellular industry will never amount to more than a million subscribers by the year 2000."

In February 2002, AT&T gave him a nice send-off bonus that he used to start his own consulting company where he sells his services for many times more than he ever sold them to an employer. A few months later, Stu Tewksbury, Stevens ECE department head at the time and a fellow Bell Labs refugee, called him to ask if he knew anyone who did wireless networking, security/encryption, embedded systems, hardware, software, security, signal processing and had real-world experience to take over the Senior Design course sequence. So, Bruce joined the department in August 2002 and spent 15 years teaching an outrageous course load full-time. He finally decided in December 2017 that, after 50 years of near-continuous involvement with Stevens and 15 years of suffering through the inability of NJ Transit to keep the North Jersey Coast Line running from Hazlet to Hoboken on a regular basis, it was time to retire a second time. He is down to two jobs now: teaching three online courses at Stevens and pontificating on technical matters of great importance to judges and patent attorneys. He loves the semi-retirement status of not having to be at any particular place at any particular time, other than doctors appointments.

Bob Torsiello writes that after graduating in '71 with three job offers, he finished his master's at night while working in a sales position for an industrial instrument company in the Philadelphia area. Throughout his career, he worked in

various positions with leading instrumentation companies and lived in Pennsylvania, Georgia, Connecticut, New Jersey, Ohio and New York. He met his wife, Diane, in 1983 and soon thereafter they wed. Their son Michael finished his MBA at Louisiana State University and is now pursuing a career with IBM as a technical sales specialist. Bob retired at 56, and now lives with Diane in the Tampa, Florida area, enjoying the great weather, low taxes and the low cost of living. He remembers Emery Lendvai-Lintner, Everett Jacobsen, Jr. and Niall Hunt, who frequently cut humanities classes to play singles and doubles handball. For a while, he carpooled with Bob Munczinski and Phil Crowley until their schedules changed too much to drive together. He has great memories at Tech including skinny dipping in the indoor pool at the gym and playing handball and squash.

Now that 2020 has arrived, and we are over 70 and have negligible memory left, write a note on your December 2020 calendar to reserve June 4, 5 and 6, 2021 for our 50th reunion.

— William Stengle; wfs20hlm@aol.com

'72 (Written by Enrique and George)
Nov. 1, 2019 — As I write, fall season is upon us. It's my favorite time of the year. Take the time next fall to walk outside with your significant other and smell the crisp morning air. Regale your eyes with the beautiful colors of the trees, it will lift up your spirits.

Last Alumni Weekend, your four class officers represented the Class of '72 and attended a State of Stevens presentation by Stevens President Dr. Farvardin. We should all be proud of our school and how it has emerged into preeminence among the colleges and universities of the United States.

Your class officers would like to congratulate and thank all of you who answered our request and donated to Stevens. During the last fiscal year, our class participation rate rose again to 27%. This is a very important number because it is one of the main measurements used by *U.S. News & World Report* to rank a university. While our class has done well in the past, let's strive to do even better this year as our 50th anniversary fast approaches.

By the way, this year we will celebrate the 150th anniversary of the founding of Stevens and it will also mark the 100th Alumni Weekend, Mark your calendars for Alumni Weekend, June 5-7, 2020 and try to come. It's bound to be great! Come visit.

About six months ago we sent out an email blast to hear from all of you so that we could publish the information in the *Indicator* class log. We were very happy to hear from **Ed May**, **Tom Haher** and **Greg Siegel**. Thanks again, guys!

We need to hear from more of you. Tell us about events in your life. Where are you? What are you doing? Share your experiences with your classmates. Send us something. Otherwise, the next log will be about me and my grandchildren. Write me Enrique (elbmc@optonline.net) or George (gwjohnstonjr@msn.com).

One last item before hearing from George. For the fifth consecutive year, the organization IAM has named our class secretary, George, as one of the world's leading patent professionals. IAM is commonly regarded as the definitive go-to resource for those seeking patent advice from patent professionals. Way to go, George!

Thanks Enrique! Now some more news.

In August, I receive a phone call from **Mike Stegura** (msteg@aol.com) of Alpha Sigma Phi. His fraternity brother and my "old" chemistry lab partner, **Al Lewis**, was going to visit Mike and Halyna in Macungie, Pennsylvania. Al recently retired and had lots of time on his hands. With his great love for baseball, Al decided to check off a bucket list item and travel from Chicago to Cooperstown, New York. On his way back home, Al was detouring through Pennsylvania.

Mike called to ask if Maryann and I might be interested in seeing Al. Candidly, it was far from the best time to be away from the office. My work schedule was pretty intense at that time with upcoming client deadlines looming near. It would have been easy to find an excuse and "take a pass." But we accepted the invitation.

Well, everyone had a great time seeing Al. He had not changed a bit — always optimistic, laid back, grounded and fun to be around. We visited Mike's favorite vineyard, Vinecrest Winery, where Al and I bought a bunch of bottles of wine to take home. Then, we had a great meal at a terrific local restaurant. More important, we had a chance to catch up and share some good laughs and stories from our time at Stevens.

About a month later, Mike again called about Al. After our visit, Al was diagnosed with an aggressive form of brain cancer and was entering hospice. He died a week later.

Regrettably, Al did not have as much time on his hands as he thought. We were blessed to have shared with Al some of his precious remaining time. Despite my original apprehen-

sions, we are grateful to have accepted Mike's kind invitation to visit with Al. When Maryann and I open our Vinecrest wine bottles, we will be thinking of Al (See a photo of Al and his frat brothers on page 60.)

No matter how many other challenges seem so pressing and important, you never know what will happen next. As we transition into senior status, appreciate the true priorities. Make the time to come visit. — **George W. Johnston**, gwjohnstonjr@msn.com; **Enrique L. Blanco**, elbmc@optonline.net

'73 Oct. 29, 2019 — Thanks to those of you who responded to our Class of 1973 survey. We always appreciate the input and I'm sure our fellow classmates do as well. Here are the responses to date.

We heard from **Dennis Anthony** who writes: "Having never written to *The Stevens Indicator* before, here is my life since graduation in a couple of sentences. After graduation, I shared an apartment for a couple of years with **Mike Gruchowski** before moving to West Orange, New Jersey. I got an MBA in management from the Fairleigh Dickinson program for scientists, engineers and technical managers in 1981. Married my wonderful wife, Toni, in 1988. I worked for Unitech/Graver Water/Graver Co. from 1973-1996, designing and selling evaporator and crystallizer systems for water recovery and wastewater treatment until I retired on disability in 1996. Now I'm doing a little personal financial and investments management for a small group of clients. After the real estate prices crashed, we bought a high-rise condo in Las Vegas in 2013 and now split our time about two-thirds in New Jersey and one-third in Las Vegas. Anyone else in Las Vegas? We are planning to leave New Jersey in favor of lower taxes and a more moderate climate but have not decided where. Maybe Asheville, North Carolina. Well, I suppose that is more than a couple of sentences, but thanks for reading anyway."

Dan Spacek provided an update: "I am semi-retired, doing part-time remote consulting on software projects for the medical field, enjoying life in Maine."

And, we heard from **Frank Weisensee** who has moved from New Jersey to Portland, Oregon, and said that "Debbie and I recently celebrated the birth of Charlotte, our third grandchild."

I had a chance to get together over Labor Day weekend with **Bill Hutchinson** and his wife, Mar-



Bruce Blondina '73 with his daughter, Jenna Blondina Chandler '12, on her wedding day, Sept. 21, 2019, in front of the Stevens Gatehouse.

ianne, something that we have done for many years. We all agreed that we haven't aged a day!

Wedding day news: September 21, 2019, Jenna Blondina to Richard Chandler. The attached two pictures include **Bruce Blondina**, father of the bride, with his daughter, **Jenna Blondina '12**, now **Jenna Chandler '12**. The first photo was taken on the Babbio plaza, and the second photo was taken in front of the Gatehouse.

Finally, your class officers would like to recognize the work of **Joe Mitro** as an advocate for the Class of '73 and his support of the larger Stevens community. Joe agreed to become the class vice president in January 2017 and has served continuously since then. Joe has been the driving force behind our 50th anniversary Class of '73 gift of an endowed scholarship, which we hope will grow to \$2 million by our 50th reunion. Joe's past generosity is evidenced by being a lifetime giver in the Kenneth W. DeBaun Society, a member of the Stevens Legacy Society, the Edwin A. Stevens Society, and Gear 20. He also has established a legacy fund with contributions to the Class of '73 Scholarship Fund and separate Joseph W. Mitro Scholarships. You can read Joe's story in the Stevens donor profiles, <https://connect.stevens.edu/donor-stories/joe-mitro> — **Anthony Callendrello**, acallendrello@comcast.net; **Francis L. Vastano**, fvastano@comcast.net

'74 Nov. 1, 2019 — Fifty years after entering Stevens we have finally achieved 2020 vision. With clarity and sharpness, each of us can clearly see what the last 50 years have been! I'm sure none of us had 2020 vision in 1970 when we started this journey together. We were just trying to make the most of (survive) the next four years and hope our Plan A for our careers would happen.

Plan A...what we planned to do after graduating! As the class officers contacted you ahead of

our 45th reunion, we learned about great Plan A journeys of our class members. We also learned about some equally great and interesting Plan B journeys. Plan B by choice or by some unexpected turns in our careers or lives that never could have been imagined 50 years ago, and now are our stories with 2020 vision. We may not have actually labeled them Plan A or Plan B, but our choices led each of us on our path.

So, Plan A or Plan B? No wrong choice, just your bold choice.

We are fortunate! We and every Stevens graduate get to make bold choices to follow our dreams. As things didn't go completely as planned, we all figured out the course corrections and forged ahead.

Since beginning this journey 50 years ago, each one of us has a great story to be proud of that hopefully has been shared with children, grandchildren, nieces or nephews and that will inspire them to have a dream they can choose to follow. Your personal Plan A or Plan B stories and 2020 vision are also worth sharing with those who began the journey with you.

Our 2020 vision will require clarity and sharpness to take us into the future. What's next? Still pursuing Plan A or B, or possibly Plan R? Not our parents' retirement, but staying active with family, Stevens, local churches and community groups to contribute to our family, alma mater and community success.

Charlie Pihokken and grandson Luc were at The Point the day after his retirement celebration; however, this picture did not make it into the last log with his update but now appears below.

Bill Linder sent this update with some very

exciting news:

"I am very proud to say that my son Ryan just accepted a position as assistant strength and conditioning coach at Stevens. After graduating over 45 years ago, another member of the Linder family will enjoy the campus in Hoboken.

"I recently made my way back there too, but for work, not pleasure. I started working for Precision Electric Motor Works two years ago and now roam the bowels of the buildings on campus checking on pumps, motors and other products that need repair or replacement.

"I also recently learned that fellow '74 grad Peter Isolde lives a block from where I have been living the past 25 years. I have walked by his house with my dogs and never knew he lived there.

"I included a photo of me and Ryan with one of the many trophies garnered by the soccer teams he plays for and that I help manage. Maybe he can help the Ducks soccer team improve."

Remember when! Several of our class members from their student days sent regrets at not making the reunion: **Hank Krafft, Peter Isolde, Rich Obarowski and Bill Pepe.** Look for their photos in the next issue. — **Gary Jung, Classof1974@alumni.stevens.edu; Facebook closed group: SITclassof1974**

Alumni Weekend reunion, June 5-6, 2020

'75 October 3, 2019 — "Dear Fellow Classmates, Save the date, June 5-6, 2020, Class of 1975, 45th Reunion!"

"We'd like to thank you for voting in our new slate of class officers recently and we are now

busy planning for our 45th reunion. We would like to solicit ideas from you on how best to spend our time together for a fun and memorable afternoon and evening at Stevens.

"For our 40th reunion, we organized a great dinner cruise which took us up and down the Hudson and East Rivers overlooking the beautiful New York City skyline. It was a great way to socialize and catch up with our classmates on a perfect summer evening. We are now looking for other exciting ideas from you on how to celebrate our 45th. So, please email us to ensure we have your current contact information along with any ideas you have for reunion. Additionally, we would love to hear any news you have to share with our class for the next edition of the *Indicator*. Thanks, and we look forward to hearing from you and seeing you next June! **Karl Young and Harry MacArthur.**"

Now, from **Joe Krieger: Julius Ballanco (JB)** continues his engineering career, which now includes over 39 years developing national plumbing code standards with the American Society of Mechanical Engineers (ASME). In 2018, ASME awarded the Patrick J. Higgins medal to Julius for his "outstanding leadership [and] extraordinary perseverance on [the] research and advancement of safe and efficient practices in the field of plumbing engineering." Julius generously donated the \$1,000 stipend he received from the Higgins award to our Class of 1975 endowed scholarship fund.

Julius hikes regularly with two friends who founded the Anidase Health organization to improve poor water and sanitary conditions in undeveloped regions, and these friends invited JB to travel with them to the Kwahu region of Ghana.

Anidase's greatest medical concerns include improving the poor water and sanitary conditions in the villages as well as the efficiency of delivering health care services to their patients. JB's engineering expertise complements the medical mission that Anidase performs, with projects to update substandard water quality and sanitary conditions underway in Kwahu. New deep wells (300-500 feet below ground) are supplying clean water that is safe to drink, replacing dirty water that was sourced from shallow wells, rivers and lakes. A new water treatment plant will replace roadside ditches carrying raw liquid wastewater to the same rivers and lakes.

Julius has also volunteered to teach several



1 Charlie Pihokken '74 and his grandson, Luc, at Castle Point. **2** Al Lewis '72, top row, far right, with his '72 Alpha Sigma Phi brothers, passed away last year. Read more in the '72 log. **3** Ryan Linder, with his dad Bill Linder '74; see an update in the '74 log.



Members of the Class of '77 and family visited the Udvar-Hazy Center, a companion facility to the National Air and Space Museum in Fairfax, Virginia.

classes in their local four-year plumbing school. The delivery of Anidase's medical services has also become more efficient thanks to JB sharing his scheduling and management expertise. He hopes to continue visiting Ghana to provide as much assistance as possible for many trips in the future.

Our Class of 1975 endowed scholarship fund has a balance of \$71,563.72 as of October 22, 2019. This amount is not broken down by gifts and return on investment. The approved, audited statements for the scholarship accounts will be ready by year's end and will be reported in the Spring 2020 class log. — [Harry MacArthur, harry.1975.stevens@outlook.com](mailto:harry.1975.stevens@outlook.com); [Joseph A. Krieger, joe.krieger.75@gmail.com](mailto:joe.krieger.75@gmail.com); [Karl Young, karl.1975.stevens@outlook.com](mailto:karl.1975.stevens@outlook.com)

77 Hello again. I must admit it's been a while since I sent up an *Indicator* log, but for some strange reason it seems like as soon as I started pinpointing a date for retirement (hopefully April 2020), work just started going completely crazy. Actually, it has more to do with being a government project manager with some contracts that all seemed to come up for re-compete at the same time. In the last year I think I've drafted more Performance Work Statements (PWSs) and Independent Government Cost Estimates (IGCEs) than I have in quite a while. (OK, I'll stop with the acronyms!)

First thing I have to tell you about is the fact that we held a Class of 1977 gathering in Washington, D.C., over the weekend of October 4-6. (Or the Class of '77 'Retaking of Washington, D.C.' as Eric calls it.) It was a really wonderful and fast-paced weekend. It actually started on Thursday evening October 3, with some of us meeting up at the Four Courts Irish pub in Arlington, Virginia, which was only about two or three blocks from the hotel where many of the folks

stayed. (The fact that we went to two Irish pubs within four days is purely coincidental!) Things really started up on Friday morning when many of us met on Pennsylvania Avenue in Washington, D.C. to go visit the Newseum, the museum started by the founder of *USA Today* that covers the history of journalism and media in this country. It's a wonderful museum with everything from original copies of newspaper front pages going back over three centuries, to the biggest collection of pieces of the Berlin Wall outside of Germany! After a quick lunch, we headed over to the new home of the International Spy Museum, which was put together by a number of former CIA "employees." Both museums were wonderfully informative, but I hate to say that the Newseum is supposed to close by the end of 2019. At the end of the day, we ended up at the Irish Channel Pub. (Did I mention going to Irish pubs already?)

On Saturday, a number of us met on the Virginia side of the Potomac, at the Udvar-Hazy Center, near the Dulles International Airport. It

is the companion facility to the National Air and Space Museum on the National Mall in Washington, D.C. We saw everything from pre-World War I aircraft to the Space Shuttle Discovery, not to mention an SR-71. During an extended lunch break some folks visited the Arlington National Cemetery. In the later afternoon, many of us all gathered again at a memorable bar called "Off The Record" which is part of the Hay Adams Hotel near the White House. It felt sometimes more like you were in an art gallery than a bar because you're surrounded with lithographs or original prints of political cartoons by some of the major political cartoonists you've seen in national newsprint. We wrapped up the evening with a fine dinner at the Farmers and Distillers restaurant.

The total grouping over the weekend consisted of Eric and Kathy Olson, Dawn Ortell, Mike Kosusko, Susan Barbash, Creed Johnson and Donna Bosze, Fred and Robin Tesken, Miriam Hamilton, and Peter Attas and Terry Moon-Attas. It was great to see everybody again! There is some talk that next year we may try a gathering in South Carolina.

Along those lines, it's always been great to hear from Pat Connolly-Callahan, Scott Orshan, Steve Harmelin, Paul Antieri, Stephen Bauer, Ken Miller, Sigmund Grudzinski, Richard Madonna, Gordon Schaubhut, Marty Lassen, Dennis Steelman and Camille McQueen via Facebook. (Feel free to log on and "friend" me on Facebook.) On that note, don't forget the "Stevens Institute of Technology Class of 77" Facebook page, so go ahead and request to be part of that. Also, Eric heard from Frank Behnke, who reports that he



1 Jim Weatherall '78, far left, president of the Société de Chimie Industrielle, presented the organization's International Palladium Medal to Pierre Brondeau, center, president and CEO of FMC Corporation, in New York City last June. Also pictured is awards committee chair Peter Young. **2** Jim and wife Maureen Weatherall '78 M.M.S. '78 at the event.

and Terri have both retired from work and moved from New Jersey down to Southport, North Carolina. **Pat Clune** reported looking forward to golf and his Dad's 90th birthday!

I have to wrap it up before I run too long (I know — too late!). Don't forget about the Class of 1977 endowment scholarship if you're thinking about making a donation to Stevens. If you can't find your way to it on the Stevens website, please contact the Alumni Association or any of the 1977 class officers. (Eric Olson, Dawn Ortell, Jeff Iapicco, or myself.)

Well, here I am running out of time and space as usual, so hope everybody stays well and before we know it, we will be doing the count-down to the 2022 alumni reunion! Take care — **Paul Porzio**; eclectichours@cox.net; **Facebook: "Eclectic Hours Radio Show"** or simply "**Paul Porzio**"

Alumni Weekend reunion, June 5-6, 2020

'80 Nov. 1, 2019 — Those of us on the reunion committee have continued reaching out to our respective contacts in the class for updates. Thanks to **Denise Kratsios Pucciani** for reaching out to her four-year Stevens roommate, **Lori Reinhardt Rolwood**, and thanks to Lori for responding!

"**Craig (Rolwood '78)** is partially retired and our plan in the next couple of years is to move to Bethlehem, Pennsylvania, where we have two daughters and a son-in-law. Our other daughter lives in Houston with her husband and 10-month-old little girl. Our son and his wife live in Denver with our other two grandchildren, ages 4 and 2. We are thankful we are able to travel and visit all of them fairly often.

"Two of our daughters are also engineers, though they got their degrees from Lafayette. They met their husbands there too, so in addition to Craig and me, we have four more engineers in the family: three civil and one mechanical. Our son is doing well with his degree in business and our youngest daughter is a dietitian.

"We have lived in Titusville, New Jersey, the last 21 years. Our house is on the road that Washington took on his way to Trenton after crossing the Delaware, so I have become a bit of a history buff in awe of that.

"I always enjoy reading the what and where of other classmates. Hope to see all at our big reunion next year."

Thanks to Katy, I also have also the follow-



Bill Wilson '80 and family embarked on a month-long RV trip across the country last year. Read more in the '80 log.

ing from **Bill Wilson** to share: "Greetings to my fellow alumni! I recently completed a month-long RV trip across the country. With family including three grandchildren, we were delighted to visit 18 states and ten National Parks and monuments. It was quite an adventure seeing the beauty and the vastness of the country. The most memorable sites included the wonders of the Yellowstone caldera, the beauty of the Grand Tetons, the amazing natural architecture of the Arches as well as the rugged and striking beauty of the Badlands. Traveling over 6,000 miles in an RV with three grandchildren including a 14-month-old toddler was both a challenge of endurance and a pleasure to see the world through their eyes. It's certainly a big country and I'm looking for more such adventures in the future." Great to hear from you both, Lori and Bill!

As for me, we just helped my oldest daughter and her husband move into their apartment in Hoboken. Nostalgic, as looking out their kitchen window, I have a clear view of my first apartment on 9th Street that I moved into almost 40 years ago after graduation when I first started working for Colgate Palmolive in Jersey City. Talk about coming full circle!

And now a note from Katy: "As we mentioned previously, our 40th reunion is coming up next June. Alumni Weekend will also be celebrating the 150th anniversary of Stevens, so the program will be pretty special. Look for correspondence from the Alumni Association as well as your class officers regarding the schedule as it firms up. A couple things you can do now: make sure your contact info at the Alumni Association is current and join our Stevens Institute of Technology Class of '80 Facebook page (and invite classmates to do the same). Additionally, if you have

any ideas or suggestions, please get in touch with me at ktnjx@aol.com."

That's about it for now. Take care and please be in touch! — **Kathy M. Burkholder McCarthy**; kathybmccarthy@hotmail.com

'81 Nov. 4, 2019 - Earlier this year I shared my news of being retired from AT&T. After a six-month break, I was very fortunate to return to work at the same job in October, but this time as a contractor. My stint with CompNova could last up to three years, but for now we'll take it a year at a time. Although our investments, pension, and benefits have all been working to our advantage — and I did enjoy a bit of travel and completing some home projects that were overdue — this gives me the chance to continue work as a professional in my chosen field for another few years. Teresa and I still plan on fully retiring, or at the very least going to part-time work in the next couple of years or so. We would like to travel to some bucket list countries while we are still able to do so. At least, that's the plan!

We took advantage of a week in September to head down to New Orleans for an enjoyable stay as full-fledged tourists. During my time at Schlumberger, and for both of us when we were (separately) stationed with the U.S. Air Force in Biloxi, Mississippi, Teresa and I had each taken day trips to the Big Easy; I even survived Mardi Gras in 1982. We invited **Gary Jeger** and his wife Dot to join us for the week, and we all had a really great time exploring attractions and the history of the city beyond Bourbon Street. Of course, we made sure we ate our way through the extensive Cajun/Creole menu the region offers, but we also toured the city and a couple of historic plantations, visited the World War II Museum (highly

recommended), enjoyed a dinner cruise and jazz on the steam-driven paddle wheeler *Natchez*, got to hold a baby alligator while on a swamp tour, and generally soaked in the ambiance and rich history of the region. It was a fun travel break which was long overdue, and it was great to share this retirement trip with friends.

Gloria Ron-Fornes promised to update us on her summer travels: “We spent 25 days visiting many cities — some already familiar to us, some new ones. Our objective was to ensure my husband, Hugo, got to see all his family, and that we all could add some new adventures. So, we started in the Azores, then to Lisbon, where Hugo is from, to see family, then up north to Porto — we stopped in a few other cities along the way! Then over to Galicia in Spain where I met some of my mom’s cousins for the first time; we stayed with the boys’ high school Spanish teacher in her summer home — that was really fun, she was a great guide. We then drove to Seville, where we had a lovely few days with Hugo’s cousins, and with whom we celebrated my son Adrian’s 18th birthday. Then we drove to Tarifa where we took the ferry to Tangier, Morocco. We spent two nights there and also visited Asilah, a fortified town of ramparts and gates preserved from the 15th century. We rode camels, so that’s off the bucket list!” Wow, Gloria — that’s quite an itinerary, and sounds like you certainly achieved your family’s travel objectives.

Don Bockoven submitted this entry to round out the column, just in time for our deadline: “Laura and I relocated to South Carolina about five years ago with what we hope to be our last house move (we have moved 13 times since leaving Stevens). We started out in Delaware with DuPont where our son Don III was born, moved to The Netherlands for a couple of years, then on

to Luxembourg where our daughter Jillian was born. This was followed by 14 months in Charlotte, North Carolina. Then I was asked to spend time in Japan, followed by a move with the family to Singapore to manage a large capital project to build a Lycra Spandex manufacturing plant. After learning about Lycra, I was asked to develop a standardized plant footprint to be replicated around the world to support market growth, so we moved to Waynesboro, Virginia to do just that. Once that project was completed, I moved back to headquarters in Wilmington, Delaware, but we actually lived in West Chester, Pennsylvania. From here I undertook multiple assignments, finishing up as a global operations director with 15 plants around the world (only one in the U.S.) resulting in lots of airplane time (over four million miles worth). The business was sold by DuPont to Koch Industries in 2004, and after a year I decided to venture out of the textile industry and into the mining industry, first in a turnaround role in the Dallas, Texas, area. After three years of that, I ended up in Houston, Texas, at an offshore oil and gas startup company. Technology was not quite as far along as I was led to believe, so after cutting an organization to one-tenth of its original size, I got back into the manufacturing world with a move to Massachusetts working in specialty paper. A great opportunity came up to become a CEO at a small family-owned textiles company in South Carolina. After almost five years, the turnaround was completed, and I recently took on my current role restarting a polyester staple production facility that was shut down in 2008 as a result of bankruptcy. The industry has been through a lot of ups and downs, and with the focus on growing manufacturing in the U.S. again we have a great opportunity.

“Don III got married in August 2017, and Jillian

is getting married in February 2020 — no grandchildren yet! I have been active in the industry as well as in community service. I spent the past five years heavily involved with the American Heart Association and Laura has been involved with the Red Cross. I have served on the National Council of Textiles Organization board and was recently appointed by President Trump to the Advisory Committee on Trade Policy and Negotiations. I also serve on the South Carolina Manufacturing Extension Partnership board and recently was appointed to the National Institute of Standards and Technology (NIST) - Manufacturing Extension Partnership Advisory Board. What a great education Stevens provided that has afforded me such diverse opportunities.”

Don had written me that he had a “wild ride” to tell about the past 38 years, and he was inspired by the previous *Indicator* to share it in this column. Let’s hear your stories of career, family, and travel — write to us, even if just to say “hello.” Maybe we’ll have a substantial gathering in 2021 to share those stories in person at our 40th anniversary. — **David L. Ritter**; texritter58@gmail.com

Don't see your class log listed? Send an update to alumni-log@stevens.edu or call 201-216-5161.

'84 September 26, 2019 — From **Carol Donohue**: I was not able to attend our 35th reunion due to the birth of my second granddaughter, Rosie. I am looking forward to our 40th! One of my genealogy groups hosts a Skype session for those of us who are unable to attend the reunion in person, and that was fun!

We recently opened up a Facebook group and I invite you to join us at <https://www.facebook.com>.



The 45th annual women’s alumnae fencing match, held in November, enjoyed a great turnout, with generations of past and current fencers and their families reuniting on campus. **1** Women’s fencing coach Linda Vollkommer-Lynch, ToyKen Yee '85, Natalia Chabebe Jasper '08 **2** Mary Doddy '80, D'Arcy Johnson Natale '88, Linda Vollkommer-Lynch, Mary Caruso '87 **3** Kian Wisseman, Kyria Johnson '18, Karen Kong '18, Beatrice Wilson '09

com/groups/StevensTechClassof1984/ and perhaps in 2024 we can have a Skype or Zoom session for those of us unable to attend in person.

In the meantime, I was able to catch up with **Fiona (Girvan) Accardi** and **Karen (Leigh) Skelton**. Fiona and Karen were Scottish exchange students during our sophomore year. We lived together in an off-campus apartment. I had been Facebook friends with Fiona for quite a while since I was friends with her husband **Bill Accardi**, and I had just recently connected with Karen.

Bill and Fiona have 3 sons: **Andrew** class of '19, **Kenny**, and **Eric**. After 23 years working at Verizon and a consulting stint in Saudi Arabia, Bill now works for the Defense Intelligence Agency in Washington, D.C. LOL — astonishingly, he misses New Jersey traffic, and understandably, he misses pork roll! Fiona took an early retirement from Verizon after working 32 years last December. She enjoyed a long, well-deserved break which included an extended trip back to Scotland to spend time with her aging parents and has just recently started looking for a new opportunity.

After graduating, Karen worked for Gates Rubber Company for 15 years in Scotland and then in Belgium, ending up as European industrial applications engineering manager. She then moved back to the midlands in the U.K. working for Hotpoint (part of Marconi then, now part of Whirlpool) as refrigeration new platform design manager. It was living there she met her husband

Steve through a shared love of sailing. In 2003 they moved down to southwest England to be closer to his aging family, built their own house, and for ten years ran their own company. In 2013 they decided it was time to slow down, so they closed the business and took the summer off, sailing their yacht over to France. Currently they work part-time running an eBay shop. It allows them to take most of the summer off, sailing their yacht on the west coast of France where it is now based. Karen has been back to the U.S. several times and keeps in touch with Bill, Fiona and **Phyllis Doig '85**, who visited her this summer.

— **Robert P. Confrancisco**, rconfrancisco@gmail.com; **Carol A. Donohue**, carol.donohue@alumni.stevens.edu

'86 Oct. 29, 2019 — **Robert Malinowski** writes: "After graduating from Stevens Tech in '86, I worked for ten years at Fort Monmouth as an engineering contractor. I got my master's degree in management in 1992 while working full time. In 1996, switched to the telecom industry as the writing was on the wall for Fort Monmouth to eventually close. I'm still in telecom, yet the New Jersey telecom industry has been slowly dwindling down and down ever since WorldCom went bankrupt."

Manny Rivelo writes: "As it pertains to me — life is good. I'm working at Arista Networks in Santa Clara, California. My role is senior vice

president, chief customer officer. In addition, I sit on various boards helping companies scale and grow. I have two wonderful daughters; **Gabrielle**, 26, and **Alyse**, 24. My oldest daughter married this past September and is living in Sun Valley, Idaho. This is wonderful as I keep a second home there, giving me more time to spend with her. I'm also engaged and will be marrying the lady of my dreams next year. Plus, she has two wonderful kids. We're all extremely fortunate and happy. To this day, I tell everyone how fortunate I've been for receiving one of the best educations possible, but most important the hunger to learn that Stevens taught us all.

"Hope you are well and enjoying life. My best, **Manny.**"

JoAnn Moszczynski-Coyne, in February 2019: "It was inspiring to finally give an update after so many years, as I walked through the Stevens campus with my son, **Jack**, who attended the Pre-College Program last summer. It made me reflect on how hard we worked but how much fun we had during those four years. My career started as a quality engineer on the factory floor at General Electric, then I spent 20 years with Rohm and Haas (now Dow Chemical) holding many leadership positions. After earning my Harvard MBA in 1991, my roles expanded to global finance, industrial marketing and product management. I also had a chance to work in an optoelectronic materials business focused on the commercialization of high-power fiber laser technology at OFS (old Lucent Technologies).

"On the personal front, I have been truly blessed with a great family who keeps me in balance and lucky enough to find a wonderful husband, **Rob**. Our kids, **Jack** and **Katie**, have brought more joy than any work achievement. We have a lot of fun together down the Jersey shore bike riding, boating and just hanging out. My current adventure is leading a global metal casting and basic minerals business, which gives me a chance to travel internationally, continuing to learn. My love for materials science and metallurgy never faded and it's great to still actually see ductile and gray iron metal pouring at our customers' factories. Being part of the casting defect analysis needed to improve foundry productivity is still fun. To me, Stevens will always be the educational foundation that developed my problem-solving abilities and agility applied in all the challenges life brings."

Jon Parker's update: "Because I haven't kept up with hardly any Class of '86 Stevens alumni



Young Ngo '89, with wife Jennifer and their son Minh and daughter Mai Lee, sent in an update.

(unlike **Franco Michio** did — nice update) I am looking back three decades and summarizing my career in a few paragraphs. After graduation, I went back to my home state of Maryland and got a job designing pacemaker and other lithium iodine batteries for a company associated with the CIA (I didn't know that when I was hired). They secretly released the pacemaker battery technology to companies in the U.S., and later transferred the pacemaker battery technology to communist block countries to create ties with their engineers and scientists. My pacemaker battery work is now in the CIA Museum — declassified 25 years later. I met my wife, a young CPA, there in Baltimore in 1988 and we got married in 1990. Things changed in the late 1980s and early 1990s — no Berlin Wall, less communism, and no job — and I decided to go with the medical device industry instead of the other military contract type work I had also done. We moved to my wife's native state of North Carolina, the Raleigh-Durham area, and I got a job as a manufacturing engineer of blood culture bottles (Bac/T Alert). We had twin boys in 1996.

"In 2000, I moved to Miami (no, it wasn't like *Miami Vice* then) for a job with Cordis/Johnson & Johnson in research and development and process engineering of biliary nitinol stents. That lasted only a few years and the rest of the 2000s were spent outside of Orlando designing and validating automated equipment to make needles and syringes for TycoHealthcare/Covidien. I was in corporate automation, so I did end up travelling extensively to Europe and South Korea, as well as other U.S. locations. In 2011, I moved to Indianapolis/Carmel, Indiana (now a Colts fan again) to work at Eli Lilly and Company, working in research and development, clinical supply and submission of prefilled syringes and auto

injectors. There are three commercially launched drugs I have worked on that are advertised on TV. (Lilly markets a lot, but they don't like us to promote the drugs ourselves — but having your work on TV is kind of cool.) For a guy who wasn't sure he passed his belated senior year until seeing my name on the chair in graduation practice, engineering has worked out alright for me, although I still only have the Stevens Bachelor of Engineering." — **Debi Motler; Dmot419@gmail.com**

'87 Oct. 29, 2019 — "Hi Debi, A lot of my friends were excited to see the recent write-up in *The Indicator*. Thanks.

"In October 2019, the ITK men went to Annapolis, Maryland, to watch Navy play Air Force. We rented a house for the weekend and had a great time catching up. Attending were **Ruppert Russoniello, Craig Pugh, Chris Abbott '88, Ed Dorsey '88, Joe Berberian, Ray Burghard, Bill Novak, John Fleming and Dan Musinski**. Ray, Chris and Dan brought down some Benny Tudino's for us to enjoy. Dan's phone is still somewhere at the bottom of the Chesapeake Bay. There isn't enough rice in the world to dry it out now. That same weekend, the ITK women enjoyed Oktoberfest at the Turtleback Zoo. Reuniting were **Carolyn Laffan, Denise Pena '88, Kim Byrne Novak, Gita Sheth '88, Fran Krass and Justine Lane**. From what I saw and heard, they had just as much fun as we did.

"Thanks! **Joe Berberian**" (See photos on page 66.) — **Debi Motler; Dmot419@gmail.com**

'89 Oct 31, 2019 - It's that time of year when we think about hibernating for the cold months

and dream of spring, forgetting, of course, the brutally hot and humid summer (at least on the East Coast). Do not worry, friends! Here is the continuation of reunion attendee updates to help you pass the next ten minutes or so.

The reunion committee updates begin with **Shant Karakashian** and **Scott Rideout**. Scott writes: "I retired in June along with my wife (and fellow Stevens grad) **Amy Ryan Rideout '92** after 29 years and nine months working as a civilian for the Department of the Navy. My Stevens education set me up well for this success which included such interesting duties as being responsible for the maintenance of real property at the ten Naval Weapons Station facilities, management of Naval Explosives Safety Afloat, senior engineer for the Logistic Vehicle System Replacement program (a 17-ton off-road United States Marine Corps truck), USMC safety director for all USMC ground equipment, chief engineer and then deputy program manager for Joint Light Tactical Vehicle (the Humvee replacement truck currently being fielded), and then program manager, ammunition, responsible for all aspects of the \$9 billion USMC ammunition inventory.

"While I enjoyed my career and the opportunity to support sailors and Marines, I am enjoying retirement more! It feels somewhat strange to be retired at 52. Retirement is only possible due to solid investments and the magic of compound interest.

"Plans in the future include a move to Folly Beach, South Carolina, and wandering North America in an RV. It is still too early in my retirement journey to see if I'll go back to work, but I expect some part time consulting or project-based activity may be in my future. I will likely continue to referee volleyball, which I have been doing for several years.



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Vitals

Marriages

- Sally and Alan Margreith '60 in 2018
Calvin Ang '00 to Yeny Hudiono
in April 2019
Abel Alvarez '11 to Paris Stowers
on Oct. 10, 2019
Amanda Ingersoll '15 to
Nick Phillippi '14 on July 20, 2019
Michelle Castroagudin '15 to
George Lehaf '13 on June 22, 2019
Liz Cabbage '15 to
Jason Brouhard '15 on Sept. 15, 2018

Obituaries

- O.F. Fissore '40 8/22/19
E. Rocchini '46 9/5/19
W.C. Graulich '48 10/28/16
J.G. Christopher '49 10/7/19
E.D. Morando '49 10/15/19
R. Serruto '49 11/7/19
C.J. Casaleggi '50 10/24/19
W.R. Evans '50 10/24/19
J.L. Rideout '50 9/12/19
R.E. Beutner '52 5/3/19
E. E. Kraft '52 3/24/19
W.R. Nagel '53 11/29/19
J.A. Sarsten '53 11/17/19
P.W. Kalika '54 9/9/19
J.J. Costello '58 12/2/19
H.O. Goller '58 7/3/19
D. Murdock '59 5/2019
D.C. Lyman '59 11/20/19
D.B. Hill '60 9/12/19
J.A. Starrett '60 Unknown
P. J. Hausmann '61 1/8/19
E.G. Barnes '62 11/17/19
R.C. Benner '63 9/1/19
R.C. Sanwald '63 11/11/19
S.L. Stockinger '65 11/7/19
S.W. Fields '66 6/15/18
J.C. Foster '69 11/9/19
A.S. Lewis '72 9/16/19
J. Manickam '75 10/18/19
M.E. Dikovics '86 11/9/19
S. Chin '03 10/25/19

Graduate School

- A.C. Soldavini, M.Eng. '66 9/13/19
J.M. Kinane, M.M.S. '69 9/23/19
W.J. McCormick, M.S. '84 8/29/19
S.J. Lukasik, Hon. D.Eng. '87 10/3/19
J.P. Ferrante, M.S. '91 8/25/19

Faculty

- G. B. Delancey, Hon. M.Eng. '78 11/3/19
M.G. Prasad 11/25/19

"Amy and I compete nationally in a dog sport called flyball with our four dogs. You can even find us on YouTube if you search long enough.

"Thanks, as always, to Dawn for keeping this class log going!" And as always, great to see you and Amy and best of luck in your new home!

Shant writes: "It is quite amazing that it's been 30 years since our class graduated in 1989. It was great to see and catch up with so many of my classmates at the 30th reunion in the past year, especially the ones I had not seen for many, many years.

"My first job after graduation was with JPMorgan in New York City in their systems training program. In 1991, after marrying my wife Mary, we transferred with JPMorgan to Delaware. Since then, I continue to work at now at Morgan Chase in corporate technology. We have four handsome sons between the ages of 14 and 22 and are enjoying life. Mary runs her own staging business called Unique Home Staging and Design with the help of our sons and me.

"Over the many years, Chris Frank's family and mine have spent time together several times a year creating many fond memories." Always wonderful to see you and Mary!

Another reunion attendee that I really enjoyed chatting with for a while was Young Ngo. He was kind enough to send along his update from Canada. "Wow, 30 years went by quickly. It was great to attend the 30th reunion, seeing classmates looking better than ever. The Stevens campus has changed significantly over the years with the development of the surrounding neighborhood and river walkway. It was very exciting to see the progress and investment within the Stevens community.

"Where to start with 30 years!? After graduation, from the Stevens senior project with AlliedSignal (merged with Honeywell), I stayed with the company in New Jersey working on

commercializing advanced material for the electrical utility industry. Great opportunities to work with very innovative technologies and people, and for the effort, was granted seven patents. Meanwhile, I continued with evening classes and received my master of science in electrical engineering four years later. Work took me around the world; I received great experience and worked with some amazing people in different cultures. I married my high school sweetheart, Jennifer, and we just celebrated 27 years in October 2019. A fortuitous interaction at one of our company picnics got me transitioned to the dark side — business. I completed the EMBA program in '99 at Columbia University with support from the company. We held our first-born son, Minh, on the steps of Columbia Library at graduation. Talk about a busy few years. We welcomed our daughter, Mai Lee, in June 2001. From there, an opportunity in Canada brought our family to Toronto. We thought possibly three to four years and we will be back in the U.S., but 17 years later, we're still in Canada. I guess if the family is happy and work is going well, that is where home is. My professional experience in Canada has been wonderful: nuclear industry, fuel cell and renewable technologies. I'm fortunate to get a chance to have led a commercialization startup for four years and sold the business subsequently. Currently working as chief technology officer for a software company with a large customer base in over 30 countries. I am enjoying the opportunity to innovate and strategize to grow the business further. Thanks, Dawn, for the opportunity to share my update. Be well." Thank YOU, Young!

You can see the common theme amongst these updates... *where have the last 30 years gone?* They fly by, my friends. I would love to hear about your last 30 years too! — Dawn M. Madak; dawnmadak@me.com



1 Class of '87/'88 friends attending the Navy/Air Force football game in Annapolis last fall, from left, are Ruppert Russoniello '87, Craig Pugh '87, Chris Abbott '88, Ed Dorsey '88, Joe Berberian '87, Ray Burghard '87, Bill Novak '87, John Fleming '87, and Dan Musinski '87. **2** Class of '87/'88 alums enjoying Oktoberfest at Turtleback Zoo in New Jersey, from left, are Carolyn Laffan '87, Denise Pena '88, Kim Byrne Novak, Gita Sheth '88, Fran Krass and Justine Lane '87.

'90

November 2019 —So great to reconnect with everyone and facilitate keeping us up to date on each other's lives! I am sending out a Google doc via the email list provided by the Stevens alumni team and would love to make our *Indicator* catch-ups as inclusive as possible, so please share, especially when you're getting together with other alumni!

Gina Ragazzo Okun and I met up recently for lunch and were laughing about having our kids at Stevens now. My son John '19 (Sigma Nu), graduated this past spring as a mechanical engineer and is working at FM Global. Nicholas, my middle child (Delta Tau Delta), is a junior in the biomedical program and is looking at medical school. Ava is a junior in high school, head of her robotics team and swears she won't go to Stevens because there are just too many of us from there. We'll see. Gina's daughter, Alyssa, is a freshman now in the mechanical engineering program, and Ed was touring campus with his son, Ryan. I know there are more legacies out there, so let us know who you are and what your kids are up to!

I've been out with Michael Ruberto and his wife, Joanne. Their kids, Valerie and Michael, were both on the FIRST Robotics team at Pascack Hills High School in New Jersey, where I mentor the team for safety, wellness and mental well-being. I left the engineering realm and went back to school for functional nutrition, with a focus on oncology and inflammatory disorders. Now I'm reverse engineering natural solutions based on the root cause of health conditions.

Spending time on campus feels very much like going home, familiar and grounding. I accidentally walked into an event at the Babbio Center and my first instinct was...FREE food — good food... call Nick and tell him to get down here. Do you remember those days where any event serving food was fair game when we were hungry and mostly very low on funds? On another note, the sand volleyball court is still there, used constantly by the students and when the boys told their friends it was my senior design project (with Ed and Kristin), they said that's legendary. Gotta savor those small victories when you get them!

Looking forward to hearing from you all and sharing it in future issues! — Cynthia Hmielewski, blueskysunnyday@msn.com

Don't see your class log listed? Send an update to alumni-log@stevens.edu or call 201-216-5161.



1 Longtime women's fencing coach Linda Vollkommer-Lynch and dozens of former and current fencers and their families gather for the annual alumnae fencing match in Walker Gym in November. **2** Class of '89 friends and family gather last summer in Belmar, New Jersey. Clockwise from left: Niko, Vicken, Aram and Haig Karakashian; Chris and Michelle Frank; Mary and Shant Karakashian; Lauren and Alexander Frank **3** Cynthia Hmielewski '90, right, with good friend Gina Ragazzo Okun '90. Read more from them in the 1990 log. **4** Enjoying the women's fencing alumnae match in November, from left, were Mary Caruso '87 and mother and daughter fencers Meimee Tam Persau '87 and student Sara Persau.



'98

October 2019 — Warren Rohlf's was promoted to colonel in the U.S. Air Force in 2019. (Editor's

Note: See his letter to the editor in this issue.) Here, he comments on the Fall 2019 *Indicator's* cover story on Stevens military alumni — where John Cherrey '88 and colleague John Golden '09 were featured — and shares some career highlights.

"Stevens' foundation in engineering usually leads commissioned graduates into technical fields in the Air Force. It's rarer for graduates to become true aircrew operators like John Cherrey and I, and rarer that we're on the same airframe, like John Golden '09 and I. In fact, from 1993 to 1998, when I was a student and cadet, I think I'm the only Stevens graduate to have been commissioned in the Air Force.

"I've managed to bring my career full circle. After ten years of combat and instructor flying operations, I have spent the last ten years as a helicopter requirements and operational test pilot. I've sent three pictures, two of which appear near this log, including a photo of the first flight of the new Sikorsky HH-60W Combat Rescue Helicopter last spring, a program I've worked on for the last ten years. Warren." — Anthony Garofalo, III; anthony_garofalo@hotmail.com



1 Air Force Col. Warren Rohlf's '98, far left, poses with colleagues at the first flight of the new Sikorsky HH-60W Combat Rescue Helicopter last spring, a program he's worked on for a decade. Read more from Warren in the '98 log. **2** Denis Scheper '00 and family **3** Calvin Ang '00 wed Yeny Hudiono in August 2016. **4** Ken Burgos '00 with his wife, Sandy (Desmond) Burgos '99 and fellow alumni Chris '96 and Patty Clinton-Luke '00 and Tommy '00 and Jennifer (Gallegos) Michaels '00 celebrating Oktoberfest.



Alumni Weekend reunion, June 5-6, 2020

'00

Nov. 1, 2019 — June 5 and 6, 2020, will mark our class' 20-year reunion, as well as the

100th Alumni Weekend and 150th Anniversary for Stevens! We're shaking things up for this reunion and inviting the undergraduates who graduated between 1996-2004 to the Class of 2000's Reunion. #TheYearToComeBack

Please help us spread the word — the dates are Friday, June 5 and Saturday, June 6, 2020. The festivities will occur on and around the Stevens campus. Stay tuned for details as we hope you can all make it!

A reunion committee has formed and has partnered with the Stevens Alumni Association to start planning some nostalgic and fun surprises. Please join our Facebook group where you can stay up to date on the weekend activity schedule and begin planning your trip back to campus. You can connect with us on Facebook and/or via email (marybeth.lynych1@gmail.com or aimeealonso@optonline.net) if you want to be included in the reunion committee. We will continue to have quarterly calls as we "start the reunion before



Warren Rohlf's '98 was promoted to colonel in the U.S. Air Force last year. Read more from Warren in the '98 log.

the reunion." #TheYearToComeBack

We would love to hear from each of you so we can all begin to catch up on the last 20 years! The last update was provided by some of the Stevens women; this time it's the Stevens men's turn! Here are some quick updates for you...

Ken Burgos is a data and analytics solution architect with Slalom Consulting in the New York City/New Jersey area. He is a certified professional of Tableau and Alteryx, and for the past five years he has helped his clients build, deploy and administer self-service data platforms and solutions. He is married to **Sandra (Desmond) Burgos '99** and lives in Hazlet, New Jersey, with their three girls: Caitlin, 13, Madelyn, 11 and Joselyn, 7. Ken spends his free time watching the Yankees mainly win games, the Jets mainly lose games and driving his kids to one of their many extracurricular activities. He is currently growing a beard — which looks very manly and Sandy finds very handsome.

It has been an eventful past few years for **Calvin Ang**, who was getting ready to travel all over the world before he met his girlfriend, now wife, Yeny Hudiono, in August 2016. Needless to say, that plan was squashed as the two eventually got engaged in June 2018, married in April 2019 and closed on a house last June in Levittown, New York. The self-proclaimed Jersey Boy has been reluctant to break out of his shell and become one of those "out on the Island," but is slowly adjusting to a new life as a New Yorker.

Calvin has been working remotely since August 2018 as a software developer for an online virtual school company, K12 Inc., which is based in Herndon, Virginia. At K12, his main projects involve developing teacher tools for course and

student outcomes (gradebook) management. His wife, Yeny, is a research scientist employed with Pall Corporation in Port Washington, New York, roughly a 30-minute drive from their new home in Levittown.

Denis Scheper has focused his career on the advancement of pharmaceutical products from early development through commercial launch. He's held various roles in process design, engineering, product development, operations and project management. Denis is currently the director of portfolio management at Aquestive Therapeutics in Warren, New Jersey, and oversees the advancement of its pipeline products.

Denis met his wife, Becky, sharing a small office inside a double-wide trailer, at one of the largest chemical facilities in Geismar, Louisiana. They were married in 2002 in Asheville, North Carolina and returned to New Jersey to start their family. Denis and Becky live in Basking Ridge with their two children — Sophia, 13, and Ian, 11. Between the two, the family is juggling cross country, competitive cheer, Girl Scouts, Boy Scouts, swim, babysitting and drums. The Schepers have set a goal to visit all 50 states by the time Sophia graduates college; they are halfway there after having completed a road trip around the Great Lakes this past summer. — **Marybeth Lynch**, Marybeth.lynch1@gmail.com; **Aimee Alonso**, aimeealonso@optonline.net

Don't see your class log listed? Send an update to alumni-log@stevens.edu or call 201-216-5161.

'02 September 2019 — **Lisa Peterson** has been promoted to business unit manager at Dewberry, in the professional services firm's Mount Laurel, New Jersey, office, this past fall. Peterson will be responsible for management of the office's daily operations and serving clients in the areas of transportation, real estate development, energy utilities and telecommunications. With more than 17 years of experience in transportation engineering, Peterson's expertise includes bridge replacements and highway drainage and interchange design improvements. She was involved with the award-winning New Jersey Turnpike Interchange 6-9 widening project, the I-295/Route 42 Direct Connection and the Route 3 over the Passaic River project. Peterson is a professional engineer, professional land surveyor and certified municipal engineer in New Jersey. She was named a 2018 Top Young Professional by *Engineering News-Re-*

cord (ENR) New York and a "Woman to Watch" by *South Jersey Biz* in its February 2019 issue. — **The Stevens Indicator**; 201-216-5161; alumni-log@stevens.edu

'11 November 2019 — Abel Alvarez shared some great news! "Aloha from Hawaii where Abel Alvarez married Paris Stowers on Oct. 10, 2019. Rich Tomasheski, Danielle Tomasheski and Jeff Lichtenfeld were in attendance, with Rich also serving as a groomsman. Paris and Abel currently live in Honolulu and will be moving to Hilo on the Big Island in mid-2020." — **Rick A. Leung**, rleung89@gmail.com; **Erin M. McDonnell**; erin.mcdonne@gmail.com

Alumni Weekend reunion, June 5-6, 2020

'15 Nov. 7, 2019 — Hi, Class of 2015, hope everyone is doing well! Thank you to everyone who took the survey for what they would like to do at our five-year reunion coming up at Alumni Weekend the weekend of June 5, 2020. If you did not get the survey or have updates you'd like to share for a future *Indicator* issue, please reach out to **Mark Scalzo** (mscalzo11@gmail.com) or **Danielle DeFeo** (ddefeo@alumni.stevens.edu).

Congratulations to **Amanda Ingersoll Philippi** who married **Nick Philippi '14** recently, **Michelle Leahaf** (formerly **Castroagudin**) who married **George Leahaf '13** in June of 2019, as well as **Liz Brouhard** (formerly **Cabbage**) and **Jason Brouhard** who were married in September of 2018. Michelle also graduated from dental school this past May. Liz is associate director at Dixon Projects and the Brouhards adopted a dog, Vera, from a shelter this year. **Anna DeBella** is engaged to be married to **Jeff DeVince '16** in the fall of 2020. She is still with Anheuser Busch but living in St. Louis now. **Simone Virani** and **Tyler Mackanin** are also engaged to be married in August of 2020.

We have some exciting career updates as well. **Daniel Frischman** now works for Tudor Investment Corporation and **Conner Bass** is a project manager at Katerra construction company. **Sam Adornati** is an engineer for the U.S. Army Corps of Engineers, **Logan Weiss** is a senior radio frequency engineer at Lockheed Martin, and **Bayindir E. Citak** is in southeastern Connecticut building submarines. **Jaclyn Knori** is living in Jackson Hole, Wyoming, and

working at Jorgensen Associates, Inc. as an environmental engineer. She is also a part-time professional wildlife guide in Yellowstone and Grand Teton National Parks as well as an assistant coach for the Jackson Hole Stingrays, a USA Club Swim Team. Finally, **Robert Hale** is pursuing a Ph.D. in chemistry at Yale Graduate School of Arts and Sciences.

Sean Navat Balanon is creating a comic titled, "tripzine," that documents his trip to the Philippines in March 2019 to undergo gender confirmation surgery. "tripzine" can be read on seanstartrunning.com. — **Mark L. Scalzo**, mscalzo11@gmail.com; **Danielle M. DeFeo**, ddefeo@alumni.stevens.edu

Don't see your class log listed? Send an update to alumni-log@stevens.edu or call 201-216-5161.

'18

Aug. 26, 2019 — Here's an update — and great news — from **Allison Waters** and **Frank Roberto '16**.

The couple are engaged and plan to wed in June 2020! They live in Mobile, Alabama, where Allison is a naval architect at Austal USA, and Frank is a mechanical engineer at Austal. They are looking to connect with alumni in the area. Here's a note from Allison: "Frank and I would be interested in knowing if there are any other alumni in the general region with whom we could grow a local alumni chapter, and would also be happy to serve as an extension of the Stevens network to support any prospective and/or current students in the area. Both Mississippi and the Florida panhandle (in reality, most areas of the Gulf Coast) are a stone's throw from us,

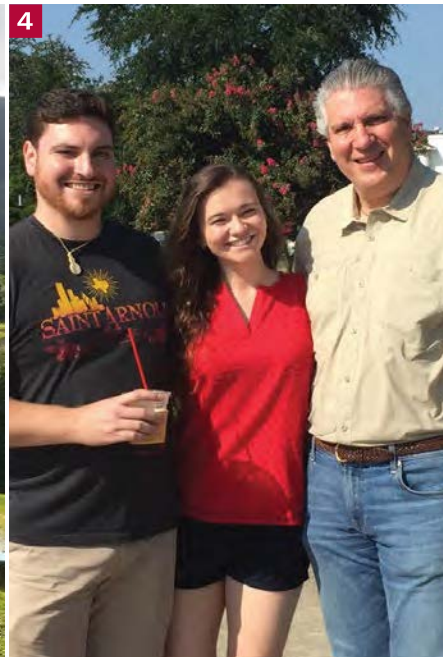
and the rest of Alabama is easily accessible. We work for a large shipyard which hires interns/co-ops and fulltime engineers across many disciplines, and which frequently emphasizes field experience in addition to the traditional office environment.

"At Stevens, our combined experiences cover fraternity and sorority life, varsity and club athletics, service organizations, an assortment of clubs, co-ops, internships, funded research, professional societies, and more. At Austal, we both have worked on interdisciplinary teams on a variety of naval and commercial vessels. We look forward to continuing our involvement with Stevens in the future!"

Allison can be reached at allisonjwaters1996@gmail.com, and Frank at frankr2108@gmail.com — **Kellie Vertetis**; kvertetis21@gmail.com



1 Hillary Paul '10, center, was inducted into the Stevens Athletic Hall of Fame last fall. Learn more on page 4. **2** Lisa Peterson '02 received a recent promotion; read more in the 2002 log on page 69. **3** Abel Alvarez '11, third from left, and Paris Stowers, second from right, wed on Oct. 10, 2019, in Hawaii. Read more in the 2011 log. **4** Frank Roberto '16 and Allison Waters '18 plan to wed this June. Catch up with them (here, they are with Frank's dad, Frank Roberto '76) in the 2018 log.





NEW JERSEY CLUB Alumni in northern New Jersey enjoyed an afternoon of pumpkin and apple picking at Wightman Farms in Morristown on October 12.



CENTRAL FLORIDA CLUB The Central Florida Alumni Club met for happy hour with local microbrews, lively conversation and valuable networking on August 10.

NORTHERN CALIFORNIA CLUB

The Northern California Alumni Club gathered together in San Francisco on November 1 for an exclusive tour of the Autodesk Workshop and Gallery.



HONOR BOARD

Honor Board alumni met with current student members to dust off their old investigative skills with real-life cases at an interactive event on November 7.



WASHINGTON, D.C. CLUB The D.C. Alumni Club met for brunch at Radiator restaurant and lounge on September 22.



DRAMATIC SOCIETY ALUMNI The Dramatic Society Alumni Affinity Club (DSAAC) gathered for a happy hour before the fall Stevens Dramatic Society performance of *Murder on the Orient Express* on November 9.

A Final Thought



Emily Spencer '14, left, and Moushmi Patel Culver '00

A Chance Meeting, and a Global Reach

Immediately upon graduation from Stevens, I moved to Copenhagen, Denmark, to work as a project engineer. Moving so far away from the New York City area, and from where the Stevens name is prominent, I felt as though I would miss the opportunity to meet other alumni at work or out in the world. However, fast forward more than five years later, I have come to realize the reach that Stevens has. Our school may be small, but our alumni are far-reaching.

In the summer of 2018, as I was returning from London to Lake Charles, Louisiana, where I was working at the time, I ran into fellow Stevens alumna Moushmi Patel Culver '00 in the Value-Added Tax refund line at Heathrow Airport in London. We were both impatiently waiting to receive our refunds when we started talking and, before long, it came up that we were both engineers from New Jersey and had graduated from Stevens about a decade apart. We started discussing our careers and the various places we had traveled for work and for pleasure. I believe that we both felt a deep sense of pride in meeting another Stevens graduate, in the most random of places in the world.

We both relished the fact that going to Stevens was very influential in our careers, and how an innovation mindset instilled in us there has enabled us to have advantages over our peers at work. We would later connect on LinkedIn, and we still keep in touch to this day — two alumnae who bonded years and an ocean away from Castle Point. ❖
— *Emily Spencer '14*

Emily Spencer '14 is an Engineer II with the American Bureau of Shipping.

Moushmi Patel Culver '00 is associate vice president, head of manufacturing strategy and business development, at Merck & Co., Inc.

Personal essays for "A Final Thought" — both Stevens and non-Stevens-related — can be submitted to Beth Kissinger at Beth.Kissinger@stevens.edu.

100th Alumni Weekend June 5-6, 2020

Ducks Come Home

Over the last century, thousands of alumni and friends have returned to Stevens each year to celebrate what it means to be a part of this unique community.

All alumni are welcome and encouraged to come home to Stevens, with those whose class years end in 0's or 5's hosting special milestone commemorative events.



Fifty Years of Memories on Castle Point

This year, the **Class of 1970** is celebrating a unique set of milestones. They will be commemorating their 50th anniversary during the 100th Alumni Weekend — the same year that Stevens marks the 150th anniversary of its founding. Members of the class recall being the youngest alumni to celebrate Stevens' 100th anniversary and 50th Alumni Weekend in 1970.

“ Reunions give us an opportunity to catch up with classmates in a spirit of good fellowship regardless of class year. The one thing we all have in common is our shared experience and a degree from the Old Stone Mill.

— Gene Golebiowski, Jeff Katz, Howie Brecher and Tony Barrese, Class of 1970

Welcoming the Next Generation

Graduating a few weeks prior to the 100th Alumni Weekend, the **Class of 2020** will be invited to their first Alumni Weekend during an unprecedented moment for their alma mater.

“ I've always felt a strong connection to my fellow engineers. I'm excited to attend my first Alumni Weekend in 2020 — only a few short weeks after graduation — to stay connected to friends and the Stevens community.

— Maryia Spirydonava, Class of 2020



No matter your graduation year, we hope you will join us to celebrate 100 years of alumni pride!

To learn more and to register, visit stevens.edu/alumniweekend.



Contact Matt Gwin, Assistant Vice President for Annual Giving and Alumni Engagement with any questions at 201-216-3346 or matthew.gwin@stevens.edu

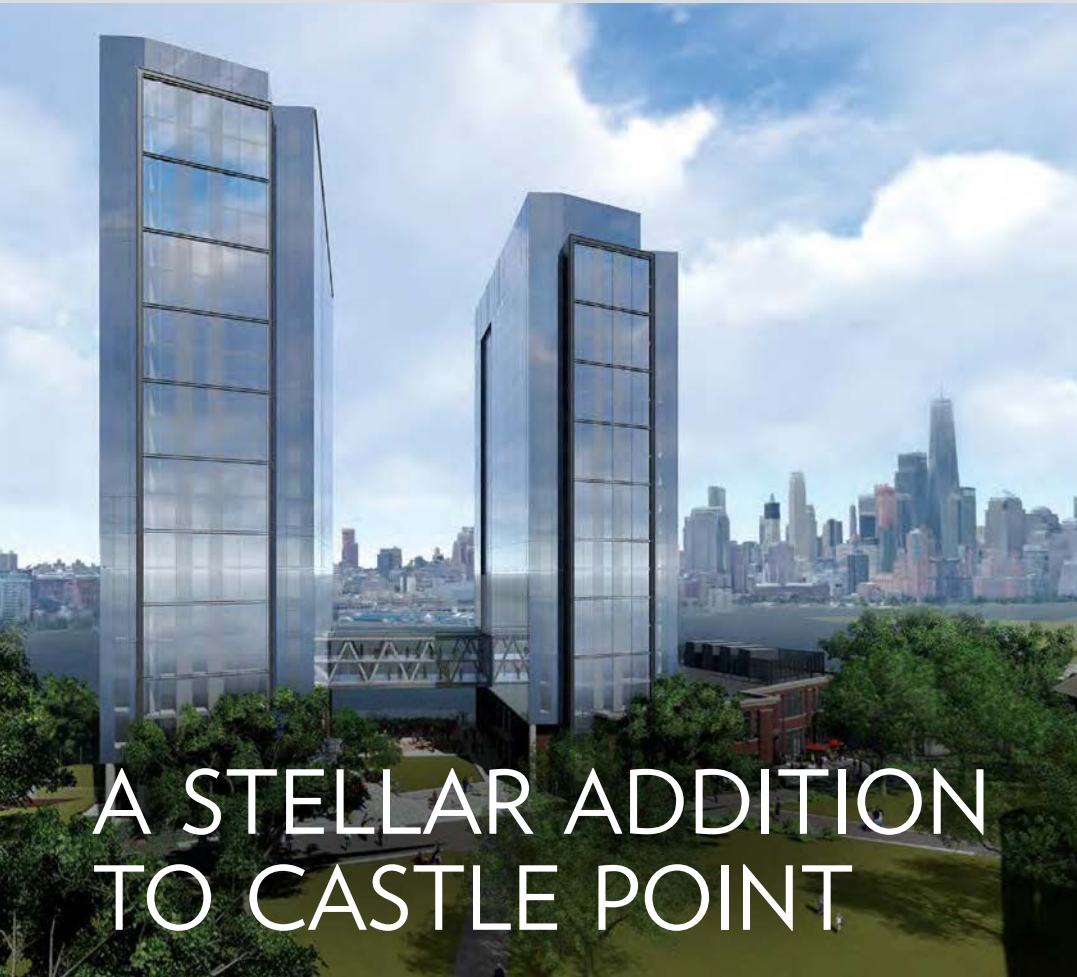


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A STELLAR ADDITION TO CASTLE POINT



Grand Commons



Fitness Center

Stevens' Student Housing and University Center will address the critical need for campus housing and dynamic spaces for learning, living and gathering upon completion during the 2021-22 academic year.

Two residential towers overlooking the Hudson will become home to almost 1,000 students. A three-story university center will become the heart of campus life, offering a modern setting for club meetings, academic conferences, dining, fitness and recreation. This new landmark will be more than a building — it will draw students, faculty, alumni and friends together, further enriching the intellectual and social community that is Stevens.

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