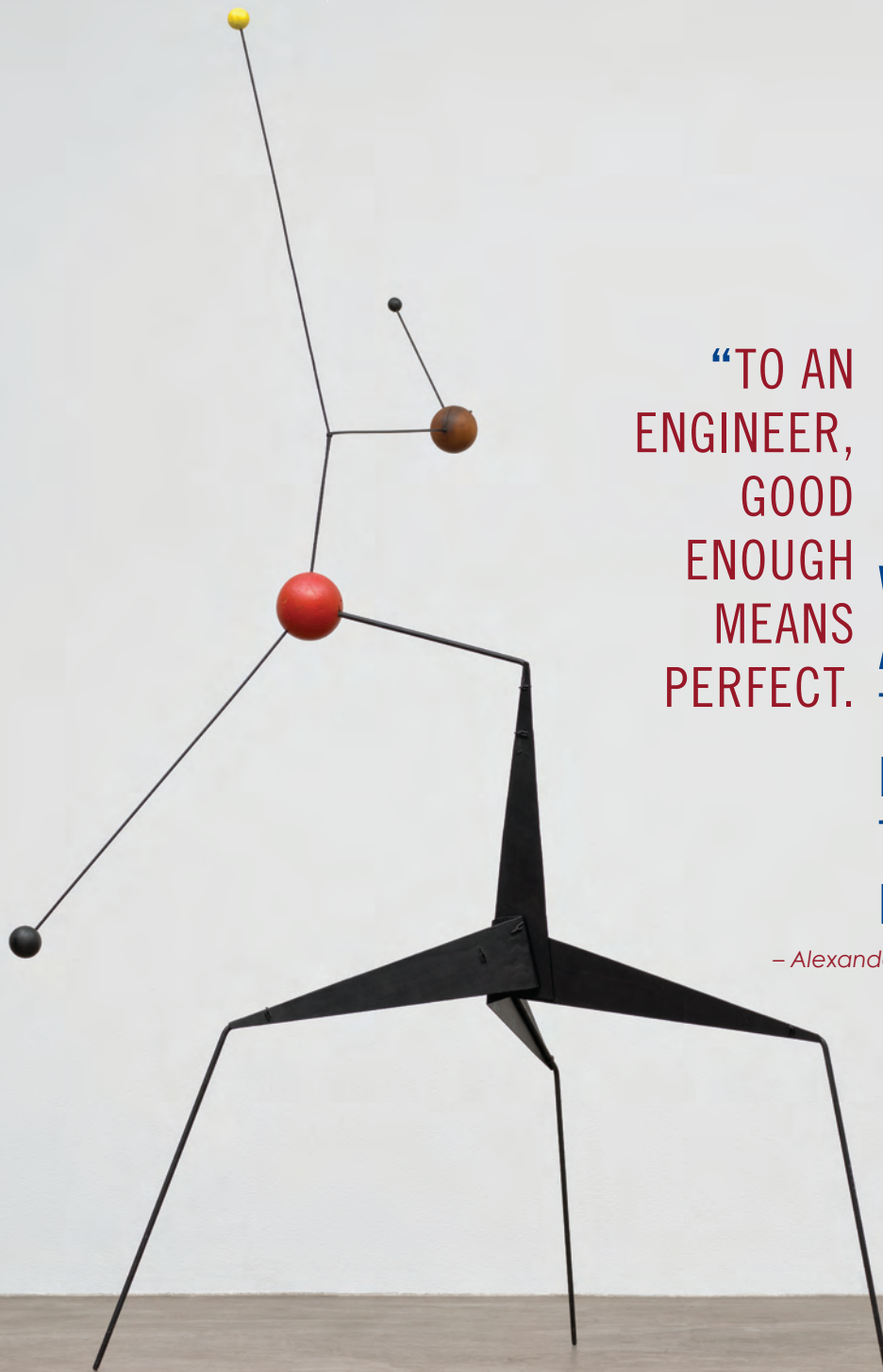


THE STEVENS INDICATOR

FALL 2018 ✦ THE MAGAZINE OF THE STEVENS ALUMNI ASSOCIATION



“TO AN
ENGINEER,
GOOD
ENOUGH
MEANS
PERFECT.
WITH AN
ARTIST,
THERE’S
NO SUCH
THING AS
PERFECT.”

— Alexander Calder, Class of 1919

IN THIS ISSUE: SU+RE HOUSE RE-OPENS | CAMPAIGN EXTENSION | ALUMNI WEEKEND

Calling for submissions: Are you a photographer?
If so, please submit your photos of any subject to
editor@alumni.stevens.edu for an upcoming photography
feature highlighting the work of Stevens alumni.

Table of Contents Photo: Leo Collins '59 M.S. '64



DEPARTMENTS

2 PRESIDENT'S LETTER

3 LETTERS TO THE EDITOR / SOCIAL MEDIA

4-7 GRIST FROM THE MILL

40-41 SPORTS UPDATE

41 CALENDAR OF EVENTS

43-72 ALUMNI NEWS

44 SAA PRESIDENT'S LETTER

68 VITALS

FEATURES

8-10 GREETINGS FROM SU+RE HOUSE

Award-winning solar house finds a home at Liberty Science Center

11 CAMPAIGN SUCCESS

The Power of Stevens passes goal and aims higher

12-31 THE ARTS AT STEVENS

A look at Stevens' artists and the program merging the arts and technology on campus

32-33 ALUMNI WEEKEND 2018

Snapshots from another memorable Alumni Weekend at Castle Point

34-35 HELPING STUDENTS DESIGN A PATH TO SUCCESS

Award-winning biomedical engineering professor Vikki Hazelwood Ph.D. '07 has advised hundreds of Stevens senior design students

36-37 PROFESSOR HONORED WITH HISTORIC GIFT

Former student leaves \$1M to the College of Arts and Letters

38 INNOVATION EXPO 2018

The annual expo showed what's possible through innovative research, educational achievements and entrepreneurship

39 CLASS OF 2018 CELEBRATED

The Stevens community gathered to commemorate the graduation of approximately 1,800 students

42 BREWING BENEFITS

Coffee scent may boost test scores and expectations

Cover Photo: Alexander Calder, Morning Star, 1943. Painted sheet steel, steel wire, and painted and unpainted wood, 6' 4 3/4" x 48 3/8" x 45 3/4" (194.8 x 122.8 x 116 cm). Gift of the artist.

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Cover Design: Simone Larson Design

PRESIDENT'S CORNER

ARTS, HUMANITIES AND ESSENTIAL 'HUMAN SKILLS' OF THE STEVENS GRADUATE

At a time when STEM (science, technology, engineering and mathematics) educational programs and employment are booming across the country and across the globe, it is useful to recognize the importance of non-STEM disciplines — the arts, humanities and social sciences — in contributing to a democratic and diverse society and in creating ethical, responsible and well-rounded citizens.

Two recent *Wall Street Journal* articles, “If You Want Your Child to Succeed, Don’t Sell Liberal Arts Short” and “The Liberal Arts Provide Real, Useful Skills,” as well as internal studies by Google have highlighted the fact that some of the key attributes sought by employers were not technical skills, but qualities developed through humanities coursework: communication, listening, problem-solving, critical thinking and empathy. Representatives of major corporations at a meeting of the Business Higher Education Forum that I recently attended underscored this sentiment with their classification of critical skills necessary for employee success: 1) human skills; 2) business skills; and 3) digital skills. The addition of “human skills” to technical and business skills necessary in the workforce is yet a further confirmation of the value of the arts, humanities and social sciences. Producing graduates who possess all three skill sets is both a hallmark and a distinction of a Stevens education.

Today, as Stevens is becoming even more widely known for its success in producing graduates who excel in the STEM fields, the university is increasingly developing a reputation for its programs in business, management and finance, and — particularly relevant to the theme of this issue of *The Indicator* — in the arts, humanities and social sciences. Famous alumni like Alexander Calder, Class of 1919, inventor of the art form known as the mobile, and more recently Richard Reeves ’60, the prolific author, journalist and longtime syndicated columnist, are but two of the many powerful examples of the strong tradition of the arts and humanities at Stevens.

Since 2007, when the Stevens College of Arts and Letters (CAL) was established, Stevens faculty have aimed to provide a humanities and liberal arts education through the lens of science and technology. This distinctive emphasis is especially appropriate for an institution such as Stevens, and it is particularly fitting in an era where



PHOTO: AARON HOUSTON

technology permeates nearly every aspect of life and work.

Through CAL, Stevens prepares all students — engineers, scientists, technologists and entrepreneurs and those majoring in one of CAL’s seven undergraduate degree programs, or 13 minor programs — to become literate, articulate, creative and ethically responsible. Through pioneering programs such as music and technology and visual arts and technology, and innovative courses such as the Anthropology of Technology and Bioethics, Stevens students develop the “human skills” and the necessary perspective to be not only effective contributors to the workforce, but also

responsible citizens of our increasingly complex, global society.

I am proud that Stevens is also proactively fostering an environment that promotes the arts and culture for our extended community. OnStage at Stevens, which includes a partnership with the New Jersey Symphony Orchestra, provides live performances for the Stevens and Hoboken communities several times per year. Through other programs and partnerships, such as with Nokia Bell Labs, our faculty explore innovative applications of music and technology such as the Human Digital Orchestra. And research, conducted by CAL Dean Kelland Thomas and his faculty, explores the synergies among seemingly disparate fields such as computational creativity, artificial intelligence, creative coding and generative music composition.

It is, indeed, an exciting time to be at Stevens. I hope that you will be as inspired as I am about the future of your university and the work of our students, faculty and alumni. I look forward to sharing more progress in the months ahead.

Per aspera ad astra,

A handwritten signature in dark ink, reading "N. Farvardin".

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

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Editor

Beth Kissinger
bkissing@stevens.edu

Managing Editor

Rebecca Markley
rmarkley@stevens.edu

Contributors

Joe Arney
Senior Communications Manager
Stevens School of Business

Paul Karr
Stevens Division of
Communications & Marketing

Alan Skontra
Stevens Office of Development

Young Soo Yang
Stevens Division of
Communications & Marketing

Art Direction/Design

www.DanFlintDesign.com

Additional Art Direction/Design

Michael Hofmann
Simone Larson Design

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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

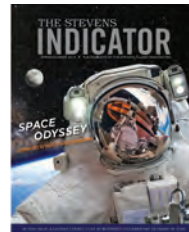
General SAA inquiries

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



ALUMNI, COMPANY DESERVED COVERAGE IN 'SPACE ODYSSEY'

The cover photo of the Spring/Summer 2018 *Indicator*, showing the NASA EMU (Extravehicular Mobility Unit), and the cover story "Space Odyssey," immediately caught my interest. Stevens can certainly be proud of the many alumni whose efforts supported the past 60 years of U.S. space exploration and of those who continue to serve in key roles today. It is quite a legacy, and I'm glad to have been part of it. However, it was very unfortunate that a greater effort was not made to identify other alumni and their companies that are or have been directly involved in the space program. I was quite surprised and disappointed that the article totally missed a fairly large group of alumni and a company that has had a longtime, distinguished presence at Stevens. During my senior year, I was interviewed on campus by the Hamilton Standard Division of United Aircraft Corporation. United Aircraft became United Technologies Corporation (UTC), then changed to Hamilton Sundstrand and is currently known as UTC Aerospace Systems (UTAS). I spent my entire 40-year career in the company's Space Systems Department. I was dismayed to see the EMU on the front cover of *The Indicator* and pictured in the cover story with no reference to UTAS or UTC. It was totally overlooked that the EMU is designed, developed and manufactured for NASA by UTC Aerospace Systems. I worked on the EMU Program for over 20 years and at the time of my retirement was the EMU anomaly analysis manager for UTAS. Also, UTAS's



campus recruiting activities at Stevens span over 50 years. I was directly involved in those activities for most of my years at UTAS, and from 1995 to my retirement in 2014 served as the UTAS/UTC recruiting lead to Stevens. UTAS supported career fairs, conducted on-campus interviews for co-op and full-time positions and funded senior design projects. During that time, 70 graduates were hired by the company, with over 30 going to work in Space Systems supporting NASA programs. An excellent UTAS/Stevens relationship was developed that provided co-op and intern job opportunities for nearly 100 students over the past 20 years. UTAS has received the Office of Career Services' Employer of the Year award twice (2001, 2008) and the Co-op Company of the Year award from the Office of Cooperative Education in 2012. At least a dozen very accomplished Stevens alumni worked or continue to work in the space exploration arena for UTAS. They have also given back to Stevens through recruiting activities and serving with me on advisory committees for the Department of Mechanical Engineering and the Engineering Management program. For all that UTC Aerospace Systems has done for Stevens, the accomplishments of its many alumni in supporting the space program, and given that *The Indicator* cover highlights our most well-known product, I trust that you understand why my fellow alumni and I from UTAS Aerospace Space Systems/UTC are very upset by the lack of any recognition. ♦ — Robert E. Thoenen, Jr. '74

SOCIAL MEDIA



1 Dean of Students Ken Nilsen in his temporary home in the Development and Alumni Engagement Office. 2 Assistant Vice President for Student Affairs Sara Klein, left, and Dean Deborah Berkley, director of STEP, try to bust Nilsen out.

On June 22, Dean of Students Ken Nilsen took fundraising matters into his own hands when he bet the Development and Alumni Engagement Office that it couldn't get 187 additional new young alumni donors by the June 30 fiscal year deadline. Locked in the alumni offices, Nilsen's social media popularity came to the rescue as the goal was met and he was released. You'll be happy to know that Nilsen is comfortably back in the Office of Student Affairs. ♦





STEVENS ACES WELCOMES STUDENTS

This summer, 26 high school scholars from underserved communities in New Jersey and New York got a taste of college life while exploring an academic major on the Stevens campus, thanks to Stevens ACES (Accessing Careers in Engineering and Science). Launched in October 2017, Stevens ACES is a broad initiative to provide opportunities in STEM education and careers to students from underserved communities, creating a necessary pipeline to a diverse and talented workforce. ACES builds on partnerships with local high schools to identify talented students with significant financial need. Stevens provides the students with extra academic support, extracurricular experiences, networking opportunities, financial and other resources to help prepare them for college and future STEM careers. ♦

▶ For more on ACES, please visit stevens.edu/aces-classes

NEW ZONING APPROVED FOR STEVENS

On Aug. 15, the Hoboken City Council voted 7-1 to adopt an ordinance to re-zone the Stevens campus — a watershed event for Stevens that will allow the university to proceed with planning an urgently needed, modern university center and student housing project and significantly increase its capacity of on-campus housing. The project will be built on the site of Jacobus and Hayden Halls, with a planned opening of Fall 2021. Designed as a pair of residence halls atop a state-of-the-art university center at a total of 21 and 19 stories, this project will accommodate approximately 1,000 beds, along with an approximately 75,000-square-foot university center. The university center will include a new fitness center, a conference center, a new food service and dining venue and new space for student organizations, among other amenities. While this project was the catalyst for the rezoning effort, there are other important aspects to the new rezoning, including providing a future development opportunity at Stevens' property at 5th Street and Sinatra Drive; reduction of traffic and parking demand through a transportation demand management program; an effort to preserve important buildings and maintain the campus character through nomination of six buildings to the national historic register; among others. In a letter to Stevens faculty and staff, President Nariman Farvardin thanked Hoboken Mayor Ravinder Bhalla and the Hoboken City Council, particularly the sponsor and co-sponsor of the ordinance, Councilman Michael DeFusco and Council President Ruben Ramos Jr., and Stevens' Council representative, Jennifer Giattino, as well as Stevens staff and community members who worked diligently to help the university achieve this landmark decision. "This was a shining example of one of the strategic priorities articulated in our strategic plan, *Through Collaboration, Impact*," he said. Farvardin said the vote "provides the opportunity to meet the evolving needs of a modern, technological university, and to ensure that our faculty and students have the benefit of a world-class educational environment." Stay tuned for additional coverage in a future issue of *The Indicator*. ♦

LONGTIME M.E. PROFESSOR PASSES

Stevens professor emeritus Richard B. Cole M.S. '61 Ph.D. '71, who taught mechanical engineering at Stevens for 41 years, died on Jan. 24, 2018. He was 80. Cole, who earned his undergraduate degree from Cornell University and a master's degree from Princeton, joined Stevens' mechanical engineering department in 1965, where he taught engineering design, fluid dynamics and thermodynamics, among other courses, and did research in the areas of combustion, energy conversion, thermodynamics and air pollution. Cole co-directed the joint New York University/Stevens Science-Engineering (3-2) program and was in charge of the mechanical engineering laboratories for two decades, contributing significantly to their development. He served as Faculty Council chair and on the mechanical engineering department's Executive Committee; was a member of the Stevens Board of Trustees' Committee for the School of Engineering; among many other roles. The Richard B. Cole Award, established by the Department of Mechanical Engineering in his honor, is presented annually to a mechanical engineering student who has demonstrated high academic performance, integrity and personal dedication. ♦



PHOTO: ARCHIVES & SPECIAL COLLECTIONS, SAMUEL C. WILLIAMS LIBRARY

'BOLD VISION' UPDATE

Babbio East Plaza — facing Manhattan and sitting on the finished Babbio garage — officially opened on June 14 with the President's BBQ. Combined with Babbio West Plaza, there is now 7,300 square feet of green roof, plus 8,100 square feet of paved plaza, perfect for catching up with friends or just taking in the view.

PHOTO: © KAT KENDON/KENDON PHOTOGRAPHY

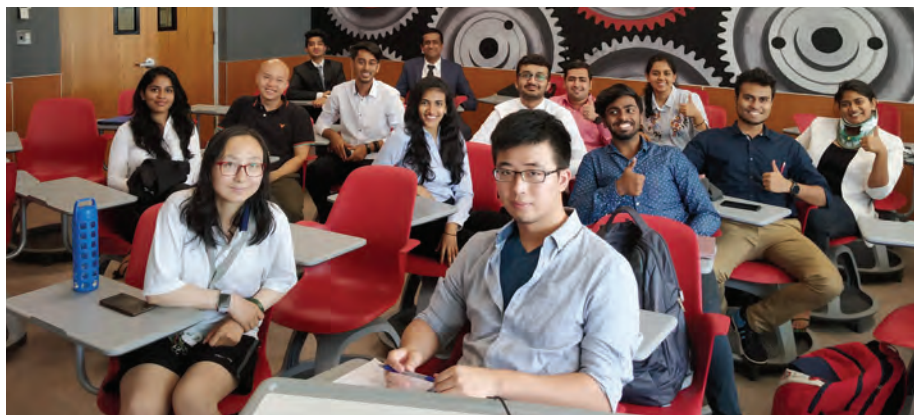


COMPTON ELECTED AICHE FELLOW



Joanne Compton '79, an instructor in the Department of Chemical Engineering with the University

of Rhode Island, has been elected a fellow of the American Institute of Chemical Engineers (AIChE). Compton has been an instructor with the university since 2014. Previously, she had a 30-year career as an engineer with Bridgestone and GOJO Industries, which produces Purell sanitizers. Among Compton's achievements are her work on the Purell products and technologies she developed at Firestone for extracting natural rubber from guayule, a shrub that grows in the U.S. She received two patents for her research on guayule. ♦



SUMMER AI PROGRAM A HIT

The first-ever Stevens Institute for Artificial Intelligence (SIAI) summer immersion program was a success. Working with SIAI founding director and professor K.P. Subbalakshmi and overseen by program mentors and Ph.D. students Mingxuan Chen, Ton Duong and Doris South, the 11 international undergraduates were able to learn about SIAI's nine areas of focus and gain hands-on experience in some of its innovative research projects, including using machine learning to detect early signs of neurological diseases, detecting emotion in audio data and wearable robotics. "The goal of the SIAI summer immersion program was to expose promising undergraduates to key research in emerging fields," said Subbalakshmi. "We believe artificial intelligence and machine learning will be cornerstones of future technology, and want SIAI to be a leading training ground for them." SIAI is hoping to build upon the success of the program and is in the process of recruiting for next year's class. ♦

ALUMNI AUTHORS SOUGHT

Stevens authors are invited to donate their books to the Stevens Authors Showcase, an ongoing initiative to exhibit books (they must be entire books, not chapters) written by alumni, faculty and staff. This collection of technical, management and literary books is an effort launched by the President's Office, with the S.C. Williams Library, Stevens Alumni Association and Office of the Provost, and will be part of Stevens' 150th anniversary celebration in 2020. Mail donations to: Scott Smith, S.C. Williams Library, Stevens Institute of Technology, 1 Castle Point, Hoboken, NJ 07030, or drop books by the circulation desk. Please mention the Stevens Authors Showcase. For questions, contact Smith at SSmith2@stevens.edu. ♦

STEVENS GRAD NAMED NEW JERSEY CTO



Christopher J. Rein M.S. '00 was named chief technology officer for the State of New Jersey in June. In his new role, Rein will be responsible for developing strategic policies, information security standards and requirements for all state departments and agencies. "Chris Rein has an impressive background in information security, and brings a wealth of experience to the position of chief technology officer," New Jersey Gov. Phil Murphy said. "As we move toward re-establishing New Jersey's innovation economy, I look forward to calling on Chris' expertise to help us provide 21st-century services and solutions for state government and the residents who utilize our services." Rein has 37 years of experience working in software and information technology, including serving as the state's deputy chief information security officer. ♦



STEVENS TO HELP GUIDE BUSINESS SCHOOLS INTO DIGITAL AGE

AACSB (Association to Advance Collegiate Schools of Business) International — whose seal of accreditation is considered the gold standard among business schools — has tapped Stevens, along with Bothell School of Business at the University of Washington, to lead the newly announced Digital Transformation Affinity Group, which will guide how business schools prepare future professionals for a corporate world increasingly influenced by artificial intelligence, machine learning and data analytics. Dr. Gregory Prastacos, dean of the School of Business, will serve as academic co-chair of the affinity group, where he will guide efforts to build innovative partnerships with businesses, establish interdisciplinary connections and share experiences in preparing the corporate leaders of tomorrow. The goals of the group — which will launch with about 30 members from schools such as Georgia Tech and the University of Pennsylvania — include the creation of learning opportunities from cutting-edge business practices and innovations and the development of programs that promote awareness of digital transformation and its impact in society. ♦

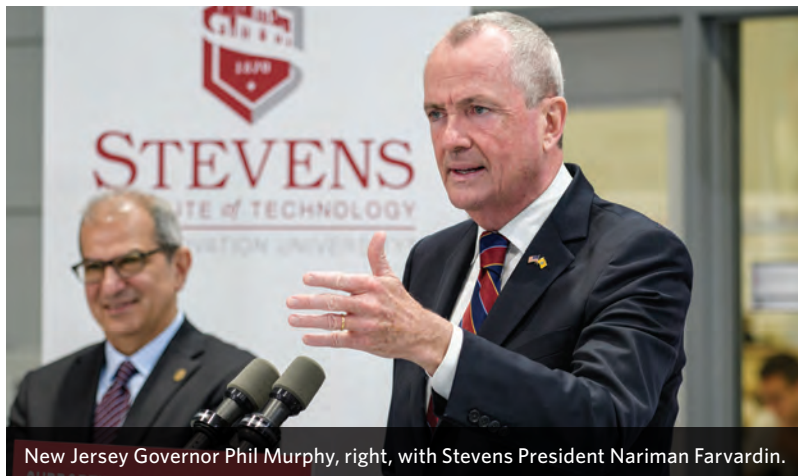
ABEL RECEIVES ASEE LIFETIME AWARD

Stevens Industry Associate Professor Kathryn Abel '91 M.S. '93 Ph.D. '01 has received the Bernard R. Sarchet Award for Lifetime Achievement by the American Society of Engineering Education (ASEE). Abel, who directs the undergraduate engineering management and the industrial and systems engineering programs at Stevens' School of Systems and Enterprises (SSE), received the award at the ASEE 125th Annual Conference & Exposition in Salt Lake City, Utah, in June. The award is the ASEE Engineering Management Division's highest-ranking award. Abel has been honored by ASEE for her work in the past; some of her notable ASEE work includes an award for a paper that explained how schools can implement new Accreditation Board for Engineering and Technology (ABET) policies, and her influential paper on an SSE study abroad program in Italy. ♦



SENIOR DESIGN TEAM HEADS TO CHINA FOR COMPETITION

Mira Therapeutics, a senior design project and digital therapeutic aid for the treatment of post-traumatic stress disorder, heads to Beijing for the final round of the GIX (Global Innovation Exchange) Innovation Competition. The team, which placed in the top five of the semi-final competition in Seattle in early August, will present its ideas to a panel of judges for a prize pool of \$160,000. GIX is a multi-culture education program co-created by two of the world's leading universities, Tsinghua University and the University of Washington, with funding from Microsoft. ♦



New Jersey Governor Phil Murphy, right, with Stevens President Nariman Farvardin.

PHOTO: JEFF VOCK

STEVENS FEMALE GRADUATES OUT-EARN MALE GRADUATES

Stevens is ranked No. 2 in the U.S., among the nation's top colleges and universities, for the smallest gender gap in earnings among its graduates, with women out-earning men by 1.6 percent, according to data reported by *Forbes* magazine. *Forbes'* ranking, based on data from the U.S. Department of Education's College Scorecard project, considered the top 117 schools, as defined by *U.S. News & World Report's* "Best Colleges" ranking. It then looked at the average earnings of people who had started school six years prior, with the majority taking four years to graduate, and who were now working and no longer in school full-time. Data show that, nationally, during this time period, a male graduate earned an average of \$59,000 while a female graduate earned an average of \$48,000. This stands in stark contrast to the median pay of Stevens graduates, in which women earned \$64,000 and men earned \$63,000. Stevens was just one of three schools in which women out-earned men during this time period, with Clark University No. 1 and Yale No. 3. ♦

▶ For the full story and report, visit stevens.edu/womens-earnings



GOVERNOR COMES TO CASTLE POINT

Stevens President Nariman Farvardin welcomed New Jersey Governor Phil Murphy on May 29, to a crowd of nearly 180 faculty, staff and students, as well as local legislators and government officials, to announce two new STEM initiatives to retain highly skilled college graduates in the state. The first proposed initiative is a loan forgiveness program to encourage recent graduates working in high-growth science and technology occupations to make a long-term commitment to New Jersey industry by reducing their student loan obligations. The second would support New Jersey high school, college and university students pursuing internships in STEM fields. This initiative could potentially increase the diversity of the STEM workplace by reimbursing participating employers 50 percent of intern wages, up to \$1,500 per student, curbing the challenge of interning without pay. "Stevens is one of the premier places where tomorrow's leaders in innovation are learning the skills they will need to be successful and to change our world," said Murphy. "If we are to grow the innovation economy again, we cannot lose our college graduates after graduation. I want them to stay here, in New Jersey, to be part of our economic future." ♦

FARVARDIN TO BE HONORED BY NJSO

The New Jersey Symphony Orchestra will honor Stevens President Nariman Farvardin at its Opening Night Celebration on Friday, Oct. 5, at the New Jersey Performing Arts Center in Newark. Farvardin will be recognized for his contributions to the arts in the region through the creation of OnStage at Stevens, a performing arts and cultural series, in collaboration with the NJSO. (Read more about OnStage at Stevens on page 21.) The cocktail and gala event will also honor NJSO Community Relations Liaison Florence Johnson. To kick off the 2018-19 season, Music Director Xian Zhang will conduct Beethoven's *Ninth Symphony*, among other musical performances. ♦



▶ For more information, visit stevens.edu/njso-honor



GREETINGS FROM SU+RE HOUSE

AWARD-WINNING
SOLAR HOUSE FINDS
A HOME AT LIBERTY
SCIENCE CENTER



SU+RE House, built by a team of Stevens students, is now a permanent exhibition at Liberty Science Center in Jersey City, New Jersey.

IT CROSSED THE COUNTRY TWICE —

East Coast to West Coast and back — and has been built and rebuilt, incredibly, three times. Now the award-winning solar house designed and constructed by Stevens students to resist future hurricanes is back home in the Garden State to stay.

And SU+RE House, which captured first place in the U.S. Department of Energy's international Solar Decathlon competition in 2015, has settled where some 750,000 visitors per year will be able to learn about its clean-energy systems and

storm-resilient construction: at Liberty Science Center (LSC) in Jersey City, New Jersey, where it has become a permanent exhibition.

The sand-colored beach house stands prominently near the science center's main entrance. Inspired in the aftermath of Superstorm Sandy to build a home that was both energy efficient and resilient to hurricane-force winds and flooding, a team of undergraduate and graduate students designed and built the house on the Hoboken waterfront. SU+RE House traveled to Irvine, California,

for the Solar Decathlon, then traveled back east; it was unveiled in its new home this past spring.

"Having it back is like a dream come true for me, especially for those of us who spent two years of our lives, every day, on this house and really believe in what it stands for," says team member Chris Hamm M.Eng. '16.

"To be an exhibit that can educate hundreds of people every month and actually educate kids; I can't think of a more perfect final home for it. The fact that a place like Liberty Science Center

wants a high-performance building like this sends an incredible message to the world — to designers, to builders — that this is something people need to know about and invest in.”

“I think that all Solar Decathlon houses function best as building exhibitions. It’s really designed to demonstrate ideas to large groups of people,” says Ed May, faculty project manager for SU+RE House. And to actually be able to present its innovative ideas, “that’s the hope — to show that these things are always possible,” May says.

This is, indeed, a working home, and Stevens professor John Nastasi, faculty lead on SU+RE House, said that the house is now “doing its job” — producing electricity from the sun with its solar-powered shutters and roof, monitoring its energy use, showcasing its storm-resilient features.

LSC, which calls SU+RE House a home “designed to survive and even help improve the future,” is thrilled to showcase the ingenuity of Stevens students, says Paul Hoffman, the center’s president and CEO.

“As an educational institution, we have a responsibility to illuminate the science behind the most pressing issues confronting the world in which we live,” Hoffman says. “For example, we sit yards from a shoreline that was severely impacted by Hurricane Sandy, and is now more than ever being consistently affected by our rapidly changing weather patterns. By putting the award-winning SU+RE House front and center, we are educating the public about the dangers of climate change, and, as a result, spurring the necessary action to protect our environment.”

It’s been a long road home to New Jersey, as SU+RE House sat in storage in California until a \$75,000 gift from PSEG — a major donor to the house’s construction — allowed the house to be trucked back to New Jersey.

Alex Guimaraes M.Eng. ’16, now a licensed architect with Nastasi Architects (Professor Nastasi’s Hoboken-based firm), was a SU+RE House student project manager and served as project manager for the construction at the science center.

LSC’s thin soil — workers needed to drive pilings some 30 feet into the ground — the harsh winter and a long approval process were all challenges, but well worth it in the end.

“It was amazing to see something that you built as a student being used in a positive way,” Guimaraes says. A number of alumni from the original SU+RE House team donated time to help reconstruct the house, and several trained science center staff to give house tours.

The result is an energy-efficient, resilient and attractive home with an airy living space, working kitchen and bathroom and inviting deck area, with shrubbery and marsh grasses native to the area.

The house, of course, is being monitored for its energy use and efficiency — as well as how it will stand up to the next storm.

“We’re always learning a lot more about how these buildings perform, and it’s important to keep up with them and see

WHERE ARE THEY NOW?

The Indicator caught up with several past members — now Stevens alumni — of the SU+RE House team:

ELIZABETH LAMB ’15

CURRENT JOB: Works with Whitelock Community Farm, Baltimore, a non-profit, urban farm that grows vegetables in an environmentally sustainable way and hosts programs for the community, including afterschool and other youth programs.

“The house certainly made a splash in the architecture world, but I really would love to see some of our ethos trickle down to the average new home construction. We all share the limited resources of the Earth and need to design our whole lives around that.”

CHRISTINE HECKER ’15 M.ENG. ’16

CURRENT JOB: Structural engineer, Christie Engineering, Bedminster, New Jersey, where she designs low-through-high-rise mixed use structures.

“I think that SU+RE House can open people’s eyes to the fact that function and form are not mutually exclusive and introduce them to the basic passive design concepts. There are so many ways that green design and flood resistance can be incorporated into standard building techniques that the general public is not aware of.”

GREG PUTLOCK ’18

CURRENT JOB: Designs commercial and utility-scale photovoltaic solar systems with Pure Power Engineering, Hoboken.

“I still have people who ask me about the project and ask for advice on some of the systems that we were able to implement. I believe one of the house’s greatest strengths is that the home as a whole has been designed to handle a very real and serious problem, while still being a warm, welcoming and beautiful place to be.”

ALEX CARPENTER ’17 M.ENG. ’17

CURRENT JOB: Electrical engineer, GDP Group, Akron, Ohio, where he designs electrical, power and communication systems for buildings and for electric car-charging stations.

“The amount of real-world experience gained by planning and implementing a complete and complex project like the SU+RE House has been vastly beneficial in my career. It’s laid the ground work for knowledge across a variety of fields in my industry and given me the ability to pick up and learn new things much faster by giving me context and real-world experiences.”

ALEX GUIMARAES M.ENG. ’16

CURRENT JOB: Licensed architect, Nastasi Architects, Hoboken, New Jersey; project manager, SU+RE House exhibit at Liberty Science Center.

“In school, I was always able to design something, but the added task of actually having to build it was something I really benefited from...Looking back, even a few years after the competition, what we were able to accomplish in two years and the results we got still blow my mind.”



The solar-powered house is both energy efficient and built to withstand hurricane-force winds and flooding.

PHOTOS: JEFF VOCK

“BY PUTTING THE AWARD-WINNING SU+RE HOUSE FRONT AND CENTER, WE ARE EDUCATING THE PUBLIC ABOUT THE DANGERS OF CLIMATE CHANGE AND, AS A RESULT, SPURRING THE NECESSARY ACTION TO PROTECT OUR ENVIRONMENT.” – LIBERTY SCIENCE CENTER PRESIDENT/CEO PAUL HOFFMAN

how they do and learn from them,” May says. The exhibit will evolve over time and recently added a new component — using its stored electricity from the sun to create a house battery for SU+RE House.

The home has also served as a nexus for new ideas about renewable energy, as well. NJ Passive House — among a network of organizations that advocate an international energy-efficient construction concept — held its inaugural meeting at SU+RE House this spring, and AIA Newark and Suburban Architects members took tours this summer. Nastasi and his team published a book based on the project.

“I know that it’s influenced a lot of our thinking and a lot of our work,” says May, who is a partner and certified Passive House consultant with bldg+typ in Brooklyn, New York. “I know it’s influenced many others in New York and New Jersey.”

SU+RE House’s former team members speak of the inspiration that the project has had in their lives and careers, and a number have gone on to work in solar energy, passive house design and other sustainable practices. *(Read more in the accompanying sidebar.)*

Similar to his role with SU+RE House, Hamm now does energy modeling for Passive House certification across the northeast with Steven Winter Associates in New York. His projects range from multi-family and affordable housing to commercial and apartment buildings.

Alex Carpenter ’17 M.Eng. ’17 designs electric, power and communications systems for

buildings and electric-car-charging stations with the GPD Group in Akron, Ohio.

“I think the innovative work of SU+RE House has inspired me to create change and progress in my field and in my work,” he says.

“Working on SU+RE House helped me realize I needed to change the direction of my career,” says Elizabeth Lamb ’15, who now works with Whitelock Community Farm, an environmentally sustainable urban farm in Baltimore. “It helped me to refocus on the environment and a sustainable green lifestyle, in a way that truly excites me.”

❖ — Beth Kissinger



SU+RE House at its new home, Liberty Science Center, which welcomes 750,000 visitors per year.



SU+RE House tours are held on weekends; sign up at the LSC Welcome Desk on the day of your visit. For pre-arranged group tours for 10 or more people, call 201-253-1310.

Campaign Success

THE POWER OF STEVENS PASSES GOAL, AIMS HIGHER

Success! Impact! Acceleration! Thanks to more than 7,500 gifts from alumni and friends, *The Power of Stevens* fundraising campaign has passed its initial goal and is pushing to a landmark new level: \$200 million through 2020, timed to celebrate the university's 150th anniversary.

The original plan, approved by the Stevens Board of Trustees, sought to raise \$150 million between 2013 and 2018. The campaign goal was in striking distance this year when Richard F. Harries '58 made a large gift to fund a new university center and student housing project — a historic gift that helped Stevens to achieve the goal six months ahead of schedule. (*See the story on Harries in the Spring/Summer 2018 issue.*) Emboldened, the board voted unanimously to reset the target to \$200 million.

"We have decided to raise the bar," said Stevens President Nariman Farvardin. "The more ambitious goal will support those key priorities that are necessary to build a great university: excellent faculty, scholarships for the best and brightest students and first-rate facilities."

"With unprecedented momentum, now is the time to accelerate, to take Stevens to the next level of excellence," campaign co-chairs Larry Babbio '66 and Sean Hanlon '80 said in a statement. "Our progress in the last seven years has been nothing short of astounding, but we cannot rest. Stevens is on an unprecedented upward trajectory. We are poised to become — and to be recognized as — a world-class university."

ACCOMPLISHMENTS ABOUND

There is already much to celebrate about the campaign's impact. Alumni donors have created dozens of new family, affinity and class scholarships, and Stevens has used gifts to create two major programs: the prestigious Pinnacle Scholars, with abundant tuition support and academic opportunities; and Clark Scholars, which rewards talented students who have a significant financial need. Additionally, the new Stevens ACES initiative (Accessing Careers in Engineering and Science) supports students from underserved communities. Donors have also given for senior design, student research and entrepreneurship, study abroad, athletics, the Stevens Technical Enrichment Program (STEP) and the Lore-El Center for Women's Leadership.

To support faculty, alumni like Dave Farber '56 and Fred Paulson '59

have endowed chairs for outstanding professors and fellowships. Gifts are also transforming the physical campus, with completed projects including the Ruesterholz Admissions Center and funding for the Hanlon Financial Systems Center, including a new financial analytics and data visualization lab, and future projects such as the Gianforte Family Academic Center and a new Health and Wellness Center, both scheduled to open in 2019.

PARTICIPATION IS KEY

Every gift, of any dollar amount, counts toward the campaign goal, so every donor should feel like he or she is having an impact through *The Power of Stevens*.

And all gifts from alumni count as participation, which experts track for national collegiate rankings. By making a gift of any amount, alumni demonstrate their satisfaction with their education and confidence in the university's future.

This decade, the university has seen an increase in participation, which bucks national trends, in large part because of outreach from engaged and influential alumni, including those volunteering on the Ad Astra Council. While many classes fundraise for their namesake scholarship funds, more affinity groups now have scholarships too, including ones created most recently for the Stevens Latin American Club (SLAC) and Alpha Phi Omega, the service fraternity. Regional alumni clubs are also getting involved, such as a feisty competition this year for participation between the Houston and Southern California clubs.

"We had a lot of fun competing against SoCal," said Houston Club President Frank Roberto '76, who is proud of his region's victory against the club led by his California counterpart, Kirit Sarvaiya '96. "It was a great way to get more alumni involved, and whether our region won or lost, we knew that ultimately Stevens would win. And with both clubs surpassing last year's percentages, that means some new or returning donors in both regions. Well done!"

"Philanthropic support is an investment in the future; it represents our collective effort to pay it forward," noted President Farvardin. "Now we are ready for another step up, and I am so grateful for the enthusiasm our alumni and friends have shown in joining us as we shape the future." ♦ — Alan Skontra

THE

ARTS A

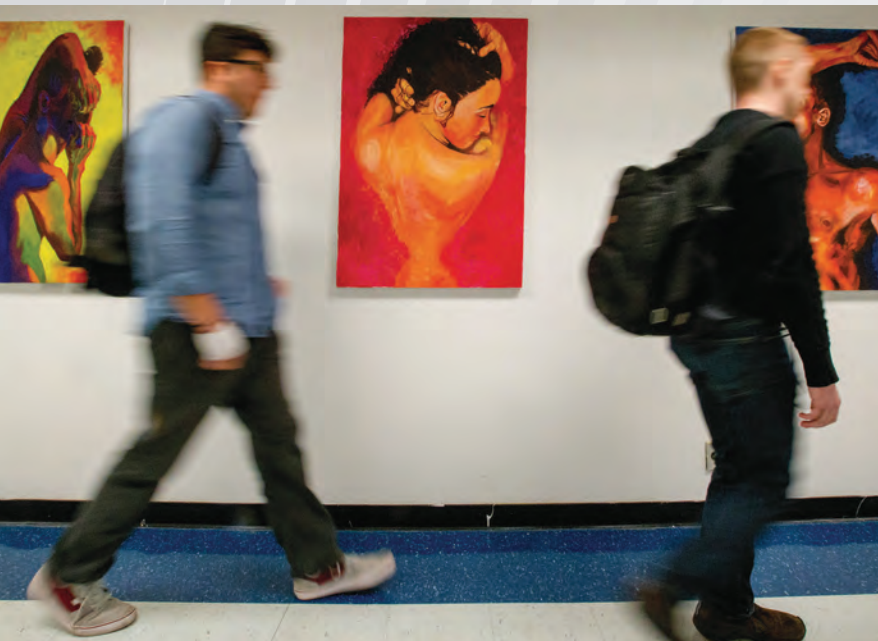


PHOTO: BOB HANDELMAN

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PHOTO: DREW REYNOLDS



PHOTO: JEFF VOCK

T



VENNS

It's the **story of an engineer** who would go on to become a world-renowned artist, and the **story of a business school graduate** who would bang his drums around the globe, playing to hundreds of thousands of adoring fans. It's also the **story of a classical pianist**, teaching the basics to a classroom full of college freshmen, and the **story of a graduate student** on her way to London to continue her studies in music and technology. It's the **story of an institution** that's developing programs to fuse creativity and technology in a way never before seen on campus, but has always recognized that humanities and culture are a necessary element to any education, that these are a necessary key to keep us grounded in our humanity.



**IT'S THE STORY OF
THE ARTS AT STEVENS.**



THE CREATI SIDE

A

ashray Harishankar '18 knew before he ever stepped onto the Stevens campus that he wanted to produce a record. Now, as an intern at Hans Zimmer's Remote Control Studios in Santa Monica, California — home to composers like Ramin Djawadi ("Game of Thrones") and Henry Jackman ("The Birth of a Nation") — he is getting the opportunities he needs.

As part of his internship, Harishankar gets to sit in with composers, audio engineers and others to watch their workflow and to learn and discuss more about the job and industry. "This is the hub of film music for many of the major films that come out

every year, and this opportunity has helped me gain important connections," he says. "I am constantly reminded of my love for music, and sharing that with others is always the best part of my day; so to be able to reach millions of people possibly through

was once a department offering only required humanities classes to engineering majors is now a destination college with seven undergraduate majors and 13 minors. The college is growing in numbers and in scope, and taking its place as an integral fiber in the fabric of the Stevens campus.

So how does a university known principally for its technology innovation fully integrate a college dedicated to arts and humanities? By ensuring that it's done through the lens of technology, looking at the places where technology meets — and morphs — the traditional understanding of the humanities.

“Technology is at the core of what we do and how we think. It's central to our mission,” says CAL Dean Kelland Thomas, who came to Stevens a little more than two years ago. A saxophonist and computer scientist, Thomas is well versed in the intersection of art and technology and has his own Defense Advanced Research Projects Agency (DARPA)-funded research investigating how artificial intelligence can be creative by making music autonomously and interacting with other music. “I'm really proud of

the way CAL is a member of the Stevens community as a technology-centered unit. Plus, we bring a depth and a richness to the campus, a creative element to the campus. A big part of innovation is being creative.”

either film music or my own music is a dream that I continue to work toward.”

Harishankar, who graduated with a degree in music and technology, is one of a number of success stories coming out of the College of Arts and Letters (CAL). What



FINE ARTS FOUNDATION MEETS TECHNOLOGY EDUCATION

While CAL offers traditional humanities degrees — literature and philosophy, for example — its real enrollment drivers are the music and technology and visual arts and technology programs. Both programs have seen a steady rise in enrollment since CAL's establishment in 2007.

Chelsea Aure '18, a visual arts and technology graduate who's currently working in the media tech rotational program at NBCUniversal, started Stevens as a biomedical engineering major but transferred to CAL her sophomore year. Making the change to follow her passion for art, she says the curriculum did not disappoint.

“I really enjoyed that majors started off with the basics of fine art — drawing, still life, sculpture — and gradually transitioned into technology. In my 2D Foundations class, we started with basic sketchbook techniques, and later moved into Photoshop; in my 3D Foundations class, we started off with cardboard and plaster sculptures, eventually learning about 3D software and 3D printing,” she says. “Also, the classes were small and intimate, so students' work got the attention and critique it needed for growth and improvement.”

WE OF TECH



Renowned feature film and video game composer and Music and Technology Program Director Andy Brick says it's that early exposure and intimacy of instruction that sets Stevens apart. "A Stevens student is as much of a music student as they are a technology student and the most success is found where they don't segregate the two but rather consider the two to be a single, integrated pursuit. Because when they do have that single, integrated pursuit, they bring passion to both sides of it. And these days it's impossible to separate the two," he says. "Students come in with a very clear, but undefined sense of where they want to go in general. The trick is to capture the clarity they have — what drives them — and help them define that more. We

always try to look at the individual student and help define what their vision of their art is, whether it leans technological or musical."

The breadth of classes offered at CAL allows for a variety of passions to be explored. Students can study game design, videography, music production, composition or orchestration, among others. They have access to the Sensory Computation, Experimental Narrative Environment (SCENE) Lab, an immersive virtual space for experimenting in virtual and augmented realities, and the CAL recording studio, which serves as a home for technical research, creative practice and performance in

production, and musical exploration in analog and digital domains.

And new faculty are adding to the energy within the school. Nancy Nowacek, who begins her second year teaching design students in the visual arts and technology program this fall, is known for pushing students and inspiring them in new ways. Another new faculty member, Lainie Fefferman, a nationally recognized composer and performing artist, is bringing new energy to the music and technology program. Fefferman recognizes the faculty as a whole for fostering such a creative environment.

"We bring a depth and richness to the campus, a creative element to the campus. A big part of innovation is being creative."

— College of Arts and Letters Dean Kelland Thomas

"I've rarely seen departments with a wider diversity of interests and practices among their faculty. Having that breadth gives the program the potential to support a wide variety of student goals and curiosities," she says. "I'm a composer who has put technology at the center of my music practice for years, believing in the expressive and aesthetic powers of software and coding environments right alongside guitars and trombones. I love the spirit of innovation at this place and my nerdy heart feels right at home being an artist here."

Both programs also encourage students to go beyond CAL and to take classes in other

disciplines. Jeff Thompson, director of the visual arts and technology program, notes that the scale of the program allows faculty to help guide students to build their own educational profile that's unique and interesting to them.

"It's really about introducing students to this range of possibilities and letting them find their pathway through that," Thompson says. "We've pushed to maintain an openness beyond art and encourage students to do a minor in computer science or statistics; take business and marketing classes."

Industry associate professor Rob Harari, who worked as a production manager and front of house engineer for Gregory Hines and Savion Glover before coming to Stevens, agrees, saying that as an academic advisor, he suggests to his music and tech majors that they get an entrepreneurship minor. "I tell them, 'If you're going to go out into the music world, it's going to eat you up. It's all about music to you, but it's a business,'" he says.

OPPORTUNITIES KNOCKING OFF-CAMPUS, TOO

Maybe even more important than what's taking place on campus is what CAL students and graduates are doing off-campus. Among the CAL Class of 2017, 100 percent of graduates secured their intended outcomes — either employment or graduate studies — within six months of graduation. (*Editor's Note: Statistics for 2018 were not*

available at press time.)

The school is also continuing to build relationships with industry partners. A partner in the revival of Nokia Bell Labs' E.A.T. program (*see sidebar on page 17*), the visual arts and technology program is also establishing ongoing relationships with other corporations, including NBCUniversal and IBM, which hired a Stevens intern, Kelly McGowan '19 this past summer.

"It's an opportunity for the IBM side, as well," says Annette Tassone M.S. '90 Ph.D. '93, who works in IBM's User Experience Research & Design group. "We have outreach programs and relationships with various universities, but

we see something unique in Stevens' students and their effort to be technical as well as at the leading edge of artistic design. Stevens' instructors push technical competence along with artistic creativity. IBM works hard to integrate the technical and the artistic, and we're impressed that Stevens values that complementarity as well."

Harari notes that these relationships with industry are invaluable.

"A former student is a mastering engineer at Sony and another former student is in charge of the broadcast of seven radio stations in the Empire State Building. We have several at Disney," he says. "[The music and technology] program was built by — and continues to be built by — industry folks, and it's that perspective and how it allows for job placement that helps set our program apart."

Though the technology edge is what often propels graduates to success, some find success in traditional arts, too. Adjunct professor Will Stackpole '12 started the music and technology program ready to pursue guitar performance and audio engineering/production, but was "completely focused on composition and orchestration with some production on the side" by the time he graduated. Stackpole received his master's from Juilliard, where he's currently completing his Ph.D., and is back at Stevens teaching the same classes that had a major impact on him when he was a student.

"When I was offered the chance to teach one of the sound recording courses in the department, I was thrilled. It's a class that every music-tech major has to take and it brings musicians of all types together for extended periods of time each week, allowing for a lot of different practices and tools to be explored," he says. "The Stevens community is a really vibrant one, with a lot of creativity and ingenuity going around — regardless of department or major — so I was excited to come back and be a part of it again."

Wherever CAL graduates land, it's Thomas' goal to build a CAL community that is "fluent in tech, but also creative thinkers," he says.

"They're comfortable designing and creating and they think of tech not as a barrier, but as an enabler giving them the power to create." ❖

— Rebecca Markley

STEVENS E.A.T.S WITH NOKIA BELL LABS

Stevens notably began a relationship with Nokia Bell Labs in 2014, when it was tapped to partner with the research and development icon on "Butterflies Alight!" an interactive screen display of colorful butterflies in the lobby of the W Hotel in Hoboken. The success of that collaboration led to industry associate professor Rob Harari creating "The Shannon Effect," a performance that used Bell Labs' Human Digital Orchestra™*, an ensemble where the movement of humans in digital space creates a multimedia sensory artist experience, that premiered at the Bell Labs Shannon Conference on the Future of the Information Age in 2016. This collaboration was the kick-off to a revival of Nokia Bell Labs' E.A.T. (Experiments in Arts and Technology) program, a pioneering collaboration program between artists and technologists that had been dormant for years.

Also in the works at the time was the development of an artist-in-residence program at the Nokia Bell Labs campus in Murray Hill, New Jersey, that visual art and technology program director Jeff Thompson helped bring to fruition. Thompson, who served as the first artist-in-residence in 2016, explains that the E.A.T. program from the late

'60s and early '70s paired Bell Labs engineers with "some of the most out-there, avant-garde artists in New York. It was this amazing, pinnacle project in the history of artists working with technology, and I thought 'Why isn't this happening all the time?'" he says.

After working through the logistics, the residency was created and has been a mutually beneficial relationship since. The artists-in-residence have conversations with Bell Labs engineers and sometimes collaborate to try and sort through a technical issue, all while building a culture of creativity. In turn, Thompson says, Bell Labs offers the three things artists need most: "money, time and space."

"A big part of our Bell Labs vision is to create insights and capability to enable networks to connect people together in a deeper and more empathetic way," says Paul Wilford, research director at Nokia Bell Labs. "Partnering with students and faculty from Stevens has broadened our understanding of what this could be. Bringing scientific researchers and artists and academics together opens up new ways to see how we can communicate with each other in richer fashions."

The partnership between Stevens and Nokia Bell Labs is thriving, with assistant professor of music and technology Lainie Fefferman currently working with Bell Labs on a new performance project. It's also led to student internships and the newly minted Nokia Bell Labs Faculty Fellowship in Art and Technology at Stevens, a title held by Thompson.

* Human Digital Orchestra is a trademark of Nokia.



Stevens associate professor and concert pianist Aysegul Durakoglu performs at the Bell Labs Shannon Conference on the Future of the Information Age in 2016.

PHOTO COURTESY OF NOKIA

BEHIND THE MASK

A

pppearances can be deceiving. Take, for example, Jay Weinberg '14. If you first saw him performing with his band, metal juggeranut Slipknot, you may make certain assumptions. But if you peel back the mask — literally — you'll see the Grammy-nominated drummer is so much more than you think.

Weinberg was 14 when he ventured down into his basement and picked up the sticks to his dad's old drum set. He says the physicality was similar to playing hockey, which at the time was his first love (a flame he carries to this day as a diehard fan of the Nashville

Predators in his adopted hometown). His dad, legendary drummer Max Weinberg of the E Street Band, offered to give him lessons.

"I took guitar lessons when I was 9, but that reminded me of school and I didn't like it. The same thing happened with the bass when I was 12, so when my dad offered lessons, I told him that I just wanted to play along with my favorite albums. And that's what I did...I'd just get home from school and play drums," he says.

Less than four years later, when his dad faced scheduling conflicts, the self-taught drummer would sit in on Bruce Springsteen's Working on a Dream tour in 2009.

"When I was 17 and sat in with Bruce, it became apparent that this was something I could do for the rest of my life," he says.

That knowledge is what brought him to Stevens. He says he knew he didn't want to go to a school to focus on drums, but instead wanted to concentrate on the practical skills necessary to sustain a career. "I grew up in a musical family and I knew I had to be professional and have my smarts and wits about me," he says.

"The general sense was that I'm gonna do what I'm gonna do because [music is] my passion, but I felt a higher education would allow me to refine my focus and figure out how to conduct myself in the creative world, how to develop a business sense, and how to marry that with art and music."

His stint with Springsteen would come two months after he started at Stevens. It certainly was not the most ideal time, but Weinberg says that all his professors were on board with his path and knew he'd put in the work.

"There was a lot collaboration with the teachers and the dean, just earning their trust as this is an out-of-the ordinary situation. They understood the gravity, because they saw I was going to play with Bruce, and they thought 'He can't not do

this,' so they trusted me to do what I said I was going to do."

And that he did. Weinberg says that any time he wasn't playing he was "face-first" in the books, and that his classmates helped him a great deal with his classes. His professors, he says, would allow him to complete interesting alternative assignments — as opposed to traditional homework, tests and quizzes — that allowed him to prove his understanding of the material. For the first two years, balancing his studies and professional life worked seamlessly. But in late 2010, Weinberg joined Against Me!, a punk band gaining widespread national attention, and he had to make a choice.

"I had to make a sacrifice and it was studies or the band. It was this great opportunity and I knew Stevens would be there; I knew in my heart I had to come back," he says.

And he did that, too. Six years after starting at Stevens, Weinberg graduated with a business and technology degree.

"Stevens is so forward-thinking and willing to go so far out of the box, that it allowed me to follow my passion and

"Stevens is so forward-thinking and willing to go so far out of the box, that it allowed me to follow my passion and not have to water it down to complete my studies."

not have to water it down to complete my studies," he says. "It was incumbent on me, but everyone was willing to put aside the traditional way of doing things to help me achieve my dreams of pursuing a life in music and getting an education."

It was during finals of his last semester at Stevens when he got the call to audition for his current band. "I didn't know what I was going to do. I'd applied for a job at a record store and got rejected," he laughs. "Then Slipknot came along."

When not recording or touring with Slipknot, Weinberg keeps busy with other musical projects — "I always have different irons in the fire; other projects in the

works in Nashville or L.A." — and a visual hobby he picked up during his time at Stevens: painting.

"Music is so collaborative, but art is so personal and it's not anybody else but me...it is a helpful thing for me to contextualize my life and break it down and get it on the canvas so it doesn't have to live solely in my head," he says. "I just do what's intuitive and what's right to me and it helps me get by day to day if there's emotional weight building up. It's a long process but very rewarding — it takes a lot, gives back a lot."

It's also important to Weinberg that he share his gifts, not only through performance but also through tutelage. Working with Lakehouse Music Academy in Asbury Park, New Jersey, Weinberg and his dad hosted a drumming clinic last summer, something he'd love to do again.

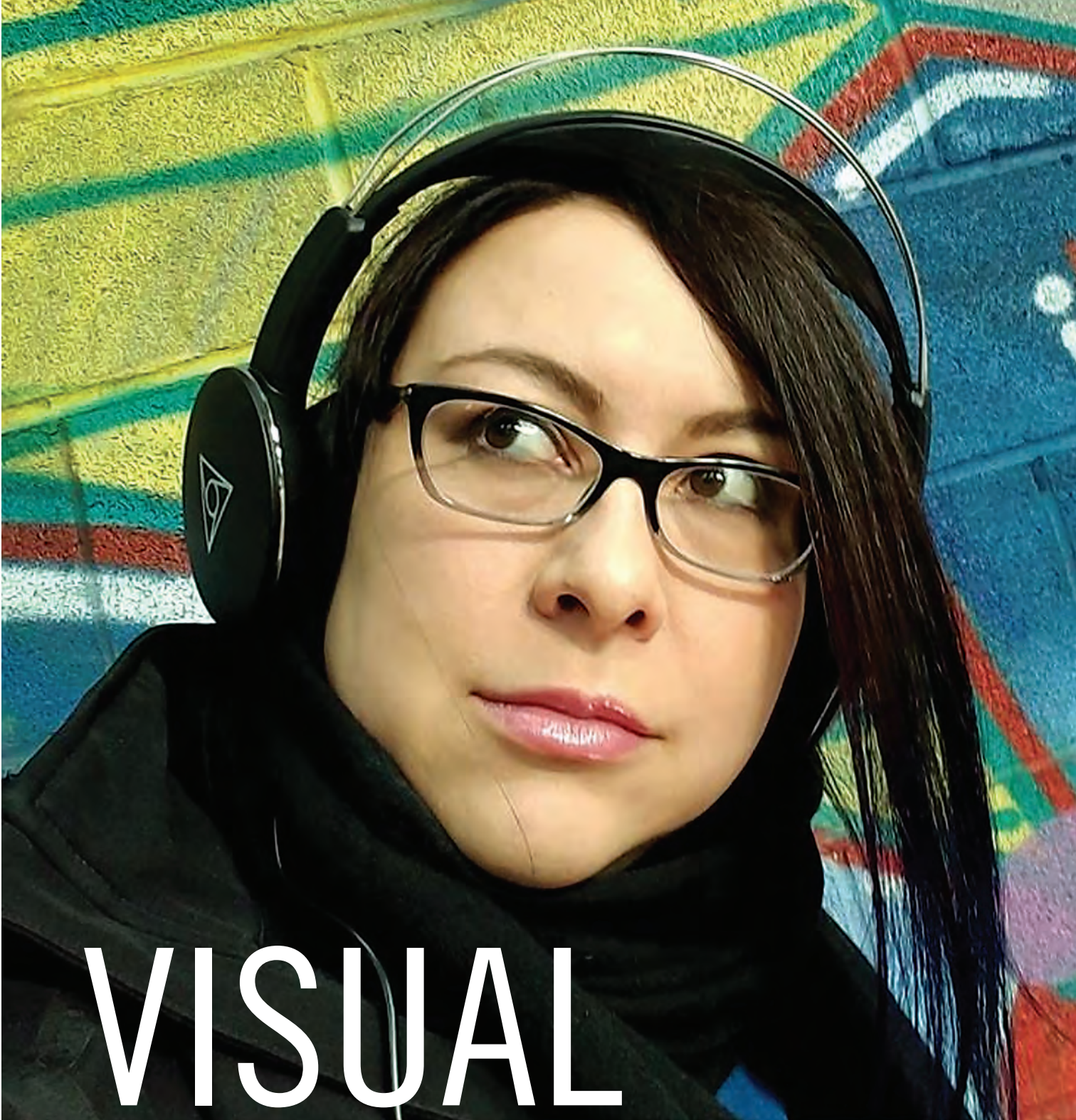
"I'm really passionate about kids finding the right footing and not seeing big-scale things as threatening or out of their grasp. I want them to know that they can put their minds to anything and achieve it," he says.

That passion, that willingness to

believe beyond what's expected and practical, is what's led him to where he is today. And now, several bands and a Stevens degree later, he recalls his less-than-glamorous public debut. It was at a bowling alley in Asbury Park, New Jersey, and The Bouncing Souls invited him to sit in on a Springsteen song.

"I remember thinking 'Don't mess up!'" he laughs, "But that first taste of a rock show — that dose of sweaty rock show — whet my appetite for what was to come. For the first time, it wasn't just me in my basement, and there was this chemical reaction and that was it...I was hooked."

❖ — Rebecca Markley



VISUAL

ADVENTU



Julia Howe '01 is breathless when you catch her on her lunch break in Burbank, California. She recently wrapped up special effects work on *Ellen's Game of Games*, Ellen DeGeneres' TV game show for which she helped create an imposing, motion-control mountain — "Mount Saint Ellen" — that kicks up rocks and flings off hapless contestants as they climb this slippery slope for prizes.

On this particular summer day, she's based at a special effects (SPFX) trailer, getting material ready for travel to Rochester, New York, to begin shooting new episodes of *Hyperdrive*, an original Netflix series and *American Ninja Warrior*-style racing show that she can't talk much about.

Howe seems to have an affinity for fantasy, monsters and horror — from the film, *Godzilla: King of Monsters*, for which she did digital asset management; to her "pyro, haze and motion control" expertise lent to The History Channel's series, *Knife or Death*, in which knife experts and martial arts specialists "slice, stab and chop their way through a blade-shattering gauntlet for a chance at winning a \$20,000 grand prize"; to *The Depths*, a virtual reality (VR) original series for which she was executive producer and production designer — an underwater horror experience that led some people to throw off their VR headsets in terror.

"It's pretty weird," she says. "You never know how a Stevens degree figured into this craziness."

Howe — a dual sociology/philosophy major who minored in music and also studied computer science and project management at Stevens — is a Los Angeles-based artist and technologist for hire and entrepreneur who has worked on major Hollywood films and television series, VR experiences, music videos and TV com-

mercials. She has walked the red carpet at the Emmy Awards, and her major credits include the *Godzilla* film, set for release in 2019; *The Great Wall*, starring Matt Damon (she did cybersecurity digital asset management); and visual effects for Steven Spielberg's sci-fi TV series, *Fallen Skies*; the film *Dumb and Dumber To*, with Jim Carrey and Jeff Daniels; and the epic historical war fantasy *300: Rise of an Empire*, among others.

She has also co-founded Clever Fox Media with her husband, Dekker Dreyer, based on Hollywood Boulevard, where the team creates VR and augmented reality (AR) experiences, as well as visual effects, for clients such as Warner Brothers, Disney, *Forbes* and the NFL.

What started as lending a hand to her indie filmmaker friends on the weekends got her creative juices going and evolved into a career she loves.

"Being able to tell a story: I think that it always comes back to that," she says. "Being able to tell a story in a visual way, with the latest technology, is just so appealing."

She and her husband travel the world for their work and are members of the Academy of Television Arts & Sciences (the Emmys). One memorable experience for Howe: living in China for eight months to work on *The Great Wall*, an action fantasy in which mercenaries battle monstrous creatures for control of the Great Wall of China.

Handling cybersecurity digital asset management, she battled challenging IT issues, including the country's powerful firewall. But it was the first American film made there in a decade, she says, and she was proud to play a part.

"It was such a feat, and such a huge movie. I feel it was a good opportunity to bridge (cultural differences) — something both cultures could appreciate."

For *Godzilla*, she curated the art department's assets in a visual database, making sure that everything got to the production designer and everyone stayed on the same page. A major challenge, she says, was that the *Godzilla* concept has gone through a number of makeovers over the years — and then a second *Godzilla* film came out right when they were in production.

"I have been a very big *Godzilla* fan for a long time," she says. "I was very excited for this project. It's going to be a good movie."

Howe has worked her way up through the entertainment industry; in her first film work, she played a stand-in witch for a friend's student film. Her reputation as a gadget-fixer for indie films traveled, and she ended up doing an apprenticeship, joining the union and doing her time as a journey person. Her work on *300* was a turning point, as she learned motion control technology and acquired an in-demand skill.

As a child, though, she preferred books and hiking to TV and film. And she loved tinkering in the workshop of her grandfather, Wesley J. Howe '43 (namesake of Stevens' Howe Center, and the late Stevens benefactor and board chairman).

He was so happy and at home in his workshop, she recalls, where he showed her how to use power tools. He was also a saxophone player who never really found the time to feed his creative side, his granddaughter says. So despite her busy schedule, she makes time for her own personal artwork: resin and epoxy sculpture, outdoor landscaping, arbors.

As to her own career, Howe also uses this measure: It must be fun and challenging.

"When I wake up and go to a job, it better bring laughter or amazement," she says. "At the end of the day, you spend one third of your life at work."

She is excited for the potential of VR and other media that have yet to be discovered.

"I am excited for the new ways that people can see things from a different perspective. [With VR] People on a mass level can open their eyes to a new experience." She imagines people being able to see things almost firsthand — be it the edge of a volcano or a war-torn village and the people who are trying to rebuild it.

"The one thing that VR does pretty well is capture the ambience/feeling of a place at a certain time." There's real potential for VR — for technology — to spark activism and improve lives, she says.

Technologists and artists must scrutinize their work, Howe says emphatically:

"I can help create or make that — but do I want to live in a world that has that?" she asks. ❖ — Beth Kissinger

RER



GEM OF

DeBaun Auditorium
marks 20 years
of performing arts

ATHEA

Once upon a time, it was the Stevens Experimental Theater, where the sound system for the first 3D movie was developed. Before that, it was a laboratory, a classroom, even a gym for a young university.

But by the 1980s, the Stevens Theater, which had been a working theater since 1903, was a ghost of its former self. Radiators whistled, the roof leaked, and the walls wore a sad, dingy gray. Only the Stevens Dramatic Society (SDS) claimed this space and, the story goes, someone strategically seated a former Stevens president near a bucket catching rain water during one evening performance.

But a game-changing renovation completed in 1998 — propelled by alumni determined to give Stevens the theater it deserved — helped transform the space into a thriving

home for the arts and what has become the DeBaun Performing Arts Center (DeBaun PAC). The late Grace and Kenneth DeBaun '49 challenged fellow alumni to raise the funds and made a game-changing gift that helped the theater reopen after being shuttered for six years, as the university renovated the Edwin A. Stevens Building but struggled to fund much-needed theater repairs.



start their own performing arts groups, as the focus over the last 20 years has shifted toward better serving students. (See sidebar on student groups.)

But this has also become a space where the public can attend performances of the New Jersey Symphony Orchestra; hear thought leaders such as former CIA and NSA director General Michael Hayden discuss foreign policy challenges, as part of the President's Distinguished Lecture Series; enjoy Shakespeare, Tennessee Williams and modern dance.

"I think it's added a whole other thrust for the school," says John Zaccaria '76, a longtime SDS adviser who sat on the theater's renovation committee. "It's sparked the university to look at non-traditional fields."

"The performances are all very good. I sometimes marvel at the sets, and the lighting is so much better than when we were students. It prompts everything to be better — having a good facility. I think that it's had an impact on the whole campus."

This state-of-the-art performing arts space has been warmly embraced by students.

"If they have to choose between a few extra hours of sleep and coming to the theater, they come to the theater," says DeBaun PAC Director Carl Russell. "It's been 20 years of being really proud of what students have been able to do, and we've been able to provide an environment."

And as students remain its primary focus, DeBaun Auditorium has also become a cultural and community destination.

"I would say that DeBaun Auditorium has become a showcase for the school," adds David Zimmerman '90, Stevens' executive director of university events and former DeBaun director. "So many important events — hosted by the President, the Provost, even the City of Hoboken — are all held in DeBaun. And we have also

A scene from "Hamlet," during a Shakespeare Workshop Productions performance at DeBaun Auditorium in 2014.



PHOTO: JEFF VOCK

started the OnStage at Stevens initiative to bring the professional performing arts to our theater — for the Stevens community but also for the Hoboken community."

"It's a highlight of the campus tour, it's a beautiful place," says Stevens professor Linda Vollkommer, the longtime women's fencing coach and SDS adviser who sat on the theater renovation committee. "Now we have a gem, and we are able to do more."

DeBaun is planning a 20th anniversary event to mark the re-opening of the theater and to look to its future. The Oct. 6 celebration will include a musical revue of songs from 20 years of DeBaun musicals, dinner and more. And on Oct. 12-13, just the musical revue will be presented for audiences.

Perhaps no one knows more about how essential this performing arts space is to Stevens than those who remember the days without DeBaun.

While the theater was closed for renovations, SDS productions and other performances took place in the Howe Center's Bissinger Room. Meanwhile, Zaccaria (who was an SDS tech director), Vollkommer and other alumni fought for years to get a real theater — and were ecstatic when the DeBaun Auditorium, renamed in its

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Today, DeBaun's transformation may be seen as a metaphor for the growth of the arts at Stevens. Some 500 people — mostly undergraduates, along with graduate students and alumni — now participate in DeBaun's 14 student performing arts and musical groups, from the 108-year-old Stevens Dramatic Society to the Floctaves, a new a capella group. Students take acting classes and learn technical theater, even

FROM SDS TO QUACKAPELLA, PERFORMING ARTS AROUND

Generations of alumni have trod the boards with the 108-year-old Stevens Dramatic Society (SDS); lent their voices to the Stevens Glee Club (now the Stevens Choir); and jammed with the Jazz Band, swinging for more than 50 years. The Stevens Orchestra played concerts dating back to at least World War I, faded away, only to return with a vengeance.

"They are a fierce group of musicians," DeBaun Performing Arts Center Director Carl Russell says of the orchestra — 45 strong, intense, driven to perform their music.

But these standard bearers of student performing arts groups have in recent years welcomed some "newbies": the Floctaves, Stevens TECHnique Dance, Quackapella.

Stevens hosts some 14 student music and performing arts groups and continues to branch out, as interest in the arts on campus rises.

The Floctaves and Quackapella are two a cappella groups formed in recent years by students. The President's Ensemble — an elite group of vocalists — performs at high-profile events, such as the Stevens Awards Gala, as do the various instrumental ensembles. Like the orchestra, the Stevens Concert Band has also been revived back to life.

Then there's the decade-old Off Center Sketch and Improv Comedy troupe which writes, directs and produces their own original work and mounts an incredible six performances a semester. The group placed fourth — besting big schools like NYU — in a national competition in 2016.

Students can try their hand as technical crew and managers, mentored by Russell and others. DeBaun PAC — the organization behind the performing arts at Stevens — also offers acting classes, voice lessons and Shakespeare workshops.

Julia Cahn '20 has done every SDS show, except one, since freshman year — acting, costume design, dancing, producing. She's taken dance and acting classes and also sings with the Stevens Choir.

The number of performing arts options at Stevens came as a pleasant surprise, and she has embraced them and the closeness of this community.

"The big thing about the performing arts here is that I don't have to choose," she says. "Here, I can do everything...it's the perfect amount of voice, dance and performing arts you could want, though it's a small school."

DeBaun's programs also attract students from different disciplines — not just those with an arts background — and these tech-savvy students often bring something innovative to set design and breathe new life into productions, she says.

"When you go to a tech school and you're performing, you really have to love what you're doing," she adds, recalling 20-plus hours a week of SDS rehearsals. "It's truly incredible what we're able to achieve." ♦ — *Beth Kissinger*

🌐 FOR THE FULL 2018-2019 DEBAUN PERFORMING ARTS CENTER SEASON, VISIT STEVENS.EDU/DEBAUNPAC

DeBaun Auditorium's past 20 years have been packed with memorable moments. Zimmerman's came in 2008, on the theater's 10th anniversary. He directed the musical, *The Secret Garden*, and the Broadway show's composer Lucy Simon — the sister of singer Carly Simon — came to the show, loved it and graciously spoke with audience members afterwards.

"It was the best moment of theater for me," Zimmerman says.

Russell immediately recalls the SDS production of *Beauty and the Beast*: the large, elaborate sets with a giant castle; the extensive use of dry ice; the big dance numbers.

Over the years, the theater has undergone some additional improvements, and to commemorate its 20th anniversary, DeBaun will fundraise to install new theater seating and carpeting, and to upgrade its lighting and sound systems.

Looking to the future, the DeBaun leadership sees the number of students interested in performing arts programs rising. They envision bringing in more educational programming.

The role that the arts play at a technical university, and in the lives of its hard-working students, is so essential, students and generations of alumni say again and again, and DeBaun provides them that space.

"Here's a part of themselves that doesn't get expressed elsewhere," Russell says. "It's a time to relax, too. Emotionally, this is something outside of the academic rigors of Stevens.

"But it's more than just a contrast or relief from engineering. It's a great way to find folks on campus with more of your sensibility. It was a wonderful way to find like-minded folks. It still functions that way."

Memories of SDS, the Glee Club, the Jazz Band are powerful, even many years later. Zaccaria — whose daughter Angelina is now a student and SDS member — laughs at the memory of his only acting role.

"I played myself, and I died three times!" he says. "We were all doing it because we loved it." ♦ — *Beth Kissinger*

🌐 FOR MORE INFORMATION ON DEBAUN'S 20TH ANNIVERSARY CELEBRATION AND TO SUPPORT ITS FUTURE PROJECTS, VISIT CONNECT.STEVENS.EDU/RSVP/DEBAUN20

benefactors' honor, finally opened its doors the weekend of Oct. 15-17, 1998. SDS chose an exuberant musical, *Grease*.

"We packed the house," Zimmerman recalls. "It was a great show."

William Ondrick, the longtime Stevens Glee Club director, came out of retirement that weekend to direct the Glee Club in what would be his final concert. The

DeBauns attended, as did other generous benefactors.

"Actually seeing a show done with proper lighting and sound — it was really very rewarding and all of the work that we did to get things done correctly, we were seeing the fruits of our labor," Zaccaria says.

"We're so grateful to Ken and Grace. They really were our angels."



ROMANTIC VISION

Aysegul Durakoglu lives high above the Hudson, along the cliffs of Weehawken, New Jersey, windows overlooking the city and river and bringing in the morning light. She starts her days early at the piano with a lively choice, often Bach.

But when night begins to fall, she turns to an old favorite.

“When I watch the sun set and the light turning into night, that is the time for Debussy,” she says.

Durakoglu, a Juilliard-trained pianist and Stevens professor, is an expert in a variety of piano repertoire, from the earliest to contemporary styles, and has performed nationally and internationally works mostly from Bach, Chopin and Debussy; the Sephardic and Turkish music of her homeland of Turkey; and Argentinian and American musical traditions. She has traveled the world appearing in music festivals and concerts in the United States, Europe, Russia, Buenos Aires and Turkey and has graced some of the world’s great stages, including Carnegie Hall and Jazz at Lincoln Center. The Istanbul native has also recorded several albums and leads her own New York-based ensemble, Musica Mundana, of the Chamber Music Society.

It is this depth of experience — and her enduring love of music — that she has brought to Stevens students since she joined the university in 2005, where she serves as a teaching associate professor in the College of Arts and Letters’ music and technology program. Her charge is to provide instruction in the basic traditional discipline of music, as she teaches keyboarding, music history and theory, and private piano lessons.

“I was lucky to study with great teachers and mentors; that’s why I value teaching,” she says. “It is continuing a legacy, it’s continuing a tradition of classical music.

“I feel lucky and privileged to pass it on to my students.” ❖ — *Beth Kissinger*

 FOR THE FULL PROFILE ON DURAKOGLU, VISIT [STEVENS.EDU/romantic-vision](https://www.stevens.edu/romantic-vision)

M

usic and computer science talent Moenika Chowdhury '18 recently landed in the UK to begin her graduate studies at the Royal College of Art and Imperial College London. While her Stevens education provides the foundation for the Innovation Design Engineering program, which she starts this fall, her passion for music and culture set the stage for an exciting time across the pond. "I love the design of the city and how easy it is to get around and become accustomed with the culture. Exploring the art and music scenes is what I am most excited about living in London. Every city has its own way of incorporating music and art into its culture and I'm excited to see that for the extended time I'll be there." ❖

— Young Soo Yang

 FOR THE FULL PROFILE ON CHOWDHURY, VISIT STEVENS.EDU/london-calling

LONDON CALLI

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tevens' reputation for excellence in the "left brain" pursuits of science and engineering is well-known — but innovation can't thrive without a little inspiration. Launched in 2016 by President Nariman Farvardin, OnStage at Stevens aims to expand the university's focus beyond its technology-centric roots by celebrating the influential role of arts and culture on education, innovation and community. Each season, OnStage invites prestigious artists to perform at the historic DeBaun Auditorium. Bringing these acts to campus makes cultural enrichment more accessible to students, faculty, staff and our Hoboken neighbors. Most recently, OnStage hosted the New Jersey Symphony Orchestra, which inspired audiences through a diverse program featuring opera, jazz and classical music. Support from lead sponsor PSEG Foundation and other sponsors like Philip Crowley '71 and his wife, Dr. Diane Young, make OnStage possible and highlight the importance of this apt Stevens/NJSO partnership. "There are so many connections between the complexity of technology and the complexity of the art of classical music," Crowley says. "Stevens and the New Jersey Symphony Orchestra are both wonderful contributors to their communities — and now to a joint community."

Visit stevens.edu/onstage to learn more about the series and the 2018-2019 performance schedule. ♦ — *Erin Healy*

ONSTAGE AT STEVENS

Bringing Arts and
Culture to Castle Point


*NJSO and jazz musicians jam at this OnStage
at Stevens concert in June 2017.*

PHOTO: JEFF VOCK

NG



INSPIRIN



If living like a rock star from the '70s through the '90s didn't slow down Carlos Alomar Hon. B.A. '11 nothing will. And doesn't he know it: "I look damn good for 69. I'm strong and I can still take a punch," he laughs.

The famed musician, who since 2010 has served as Distinguished Artist-In-Residence at Stevens, is still sought after the world over to carry on longtime collaborator David Bowie's legacy and to help create the sounds of modern day recording artists, securing their legacies to come. If you're unfamiliar with Alomar's work, check out Bowie's song *Fame*, which the pair co-wrote with John Lennon; or Alicia Keys' album *The Element of Freedom*; or the multi-platinum Mark Ronson featuring Bruno Mars hit *Uptown Funk*, on which Alomar played studio guitar. Or, better yet, stop by Morton 202 and chat with him yourself.

The Sound Synthesis Research Center (SSRC), a pocket-sized studio full of flashing lights and energy, stocked with some of the latest technology for creating music, is where Alomar plays, creates and discovers. And you're always welcome.

"The SSRC is an experimental lab whose sole mission is to incorporate sound synthesis into musical performance," he says. "I look for an individual who can walk through that door and understand that he or she knows absolutely nothing...*NOTHING*. Then, as a musician, I can introduce them to their MIDI (musical instrument digital interface) counterpart. But there's no competition here, no teachers either, just excellence."

Excellence and, as you may expect, inspiration. With his credibility a given — 32 international gold and platinum records — it's his positivity, love for music and uninhibited creativity that drive his spirit and his approach with students.

"One has to find out where their odyssey begins. Who are the students who are open to that?

"Who has the passion? Passion that wakes you up in

He laughs infectiously at that thought, presumably because he knows that person; maybe because we all know that person. His sincerity in his intention remains, though, as seen through his ever-present smile — "It's part of my facial structure at this point" — and his focus stays on the positive. It's not clear what came first, the music or the optimism, but it seems that the two are no longer separate entities for Alomar.

"What is it about music that everyone loves? FUN!" he answers. "Listen, life is hard. It's an odyssey and we care about being insignificant, which leads to the question of 'What is your self-worth? What is the value you impose on your worth?'"

"Music can add so much *value* to your life. Oh, you're tired? You hear the right song and all of a sudden you're 18 years old again... [music is] the time travel you've been looking for, to get you away from now!"

The music hasn't let him down yet, but instead has constantly pushed him in new directions, whether it was previously serving as the vice chairman of the Grammy's Board of Trustees or coming to Stevens.

"All that stuff is just an example of what you can achieve when you're ready. So what are you ready for? How the hell should I know? I didn't know what I was getting myself into, I just had to come prepared with a sense of adventure and empowering myself to say, 'I don't know what you want, but I'm sure that if I put my part to the whole, all of us will get to a new place together.'"

And so Alomar's adventure continues. He's currently on a mission to bring to light the funk of David Bowie: "I met Bowie when I was 22 and he knew me as James Brown's guy. When we hooked up I told him I couldn't deal with piano players, I'm a rock 'n' roller. I told him I wanted to hook up a trio and he said fine, but he wanted an all-black funk rhythm section. And that was that — Dennis Davis on drums, Carlos Alomar on guitar and George Murray on bass: the D.A.M.

THE ODYSSEY

Gthe morning and won't let you go to sleep at night. I don't care how much homework you have, if that song is burning in your head and you want to put it down, nothing can stop you," he says. "I'm trying to instill the love of music, so maybe they'll play the guitar for their daughter, maybe they'll meet their wife and serenade her or maybe they'll become an executive and have a full collection of amazing guitars and they still can't play."

Trio." And, of course, he's continuing to inspire the odyssey of anyone willing to take the risk.

"I'm the oldest one here and these kids never think of me as an old man. Why? Because I'm full of curiosity and adventure and I don't have time to relax. I'm always looking for the next thing," he says. "But that's not the point. The point is, who has the courage to knock on my door?" ♦ — Rebecca Markley

W

hen we caught up with the producer Richard M. Kielar '70, he had just returned to New York City from a trip to Paris, where he attended several performances at an international summer dance festival at the famed Paris Opera House. "I try to keep up with who the best dancers are in the world and what the most interesting pieces of choreography are, so that I can put together the best program possible."

As president of Arts Producer Plus LLC, Kielar produces dance programs and shows, as well as provides fundraising and marketing consulting for dance companies and nonprofits.

His glittering description of his first visit to Stevens' hilltop campus showed he had an eye and appreciation for theater even then.

"They had a reception in the [Howe Center] dining room and they brought out all the Stevens family silverware, the candelabra, the serving dishes," he recalled. "It was evening and the room was candle lit. The Stevens Glee Club members, dressed in tuxedos, came in and sang. And from the dining room, we could see a cruise liner, all lit up, passing by on the Hudson. It was like a movie scene." ❖ — *Young Soo Yang*

🌐 FOR MORE ON KIELAR, VISIT STEVENS.EDU/showtime

PUTTIN' ON A SHOW

INVENTING AN ART FORM

An artist since childhood, Alexander Calder, Class of 1919, Hon. D.Eng. '69 would change the world of art. Fusing his love of sculpture with his intuitive engineering skills, he would create and become most famous for the mobile, a form of suspended kinetic sculpture. Calder also created dozens of monumental sculptures that grace public spaces in Los Angeles, Paris and Tel Aviv, just to name a few. His works continue to be must-see stops in the collections of the Guggenheim, the Whitney, The Museum of Modern Art and thousands of other museums in the United States and worldwide.

Stevens is fortunate to have its own Calder mobile — *The Stevens Mobile* — on display in the lobby of the S.C. Williams Library, that the artist graciously gifted to the university. (Installation was gifted by the Class of 1970.)

For more information on the life and works of Alexander Calder, visit the Calder Foundation at calder.org.



André Kertész, *Alexander Calder with Eucalyptus (1940)*, 1940

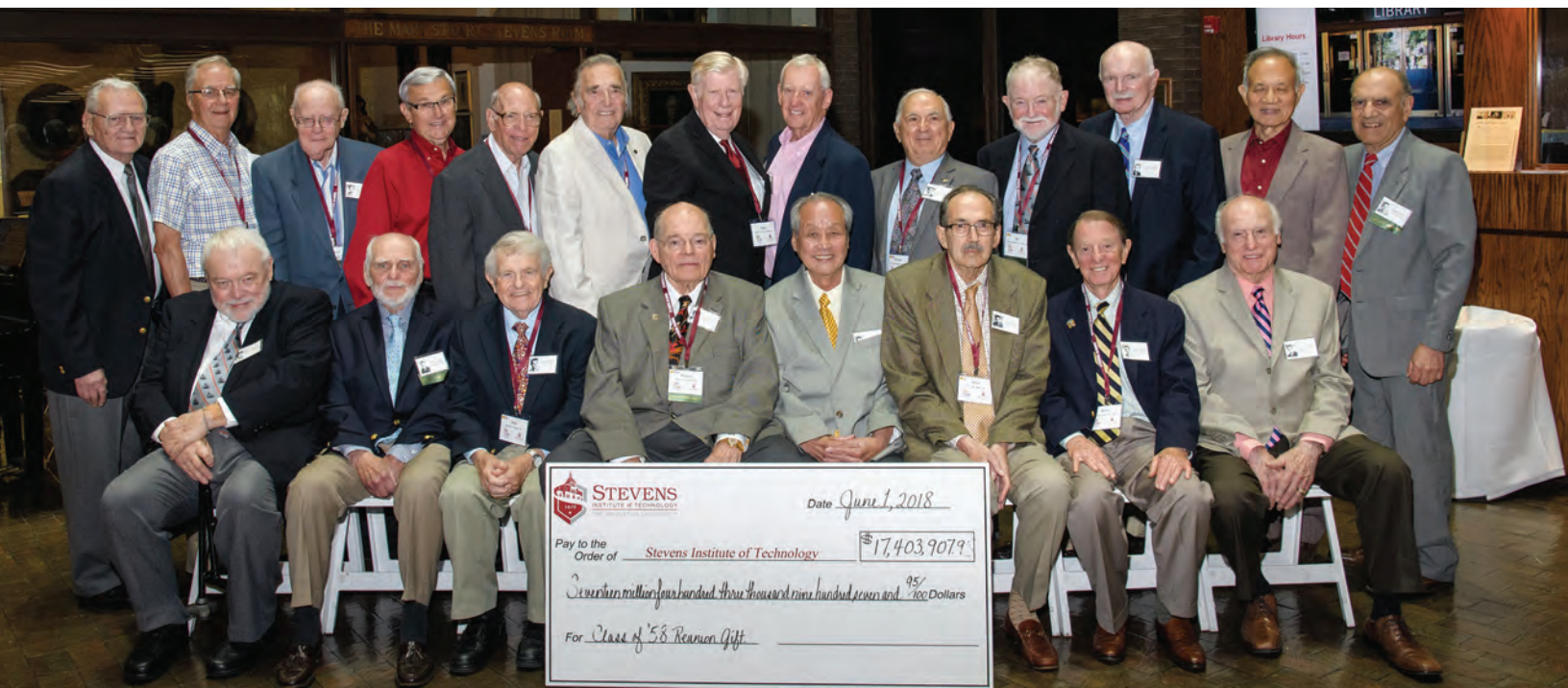
Red and Gray days

ALUMNI WEEKEND

Alumni Weekend 2018 saw graduates returning from across the country — and around the world — this spring for heart-felt reunions or just a fun day out with the family. Some notable highlights include: Top photo, this page: Tom Moschello '63 M.S. '65, center, received the Stevens Alumni Award for his many years of volunteer service and gathers with fellow volunteers and Harold R. Fee '20 Alumni Achievement winners, from left, Christopher Rodricks '98, Michael Bocchinfuso '08, Jennifer Hsiao '03, Stevens Alumni Association President Victoria Velasco '04, Owen Jappen '13 M.Eng. '13 and Harry Farrell '93 M.Eng. '96. Opposite page, center photo: The Class of '58 marked its 60th reunion with a record-breaking \$17.4 million class gift. Opposite page, bottom right: Beta Theta Pi brothers came out to remember their late brother, Mark Vedder '74, who passed away earlier this year. ♦

PHOTOS: JEFF VOCK





HELPING STUDENTS DESIGN A PATH TO SUCCESS

Award-winning biomedical engineering professor Dr. Vikki Hazelwood Ph.D. '07.

PHOTO: JOHN O'BOYLE

During Stevens' annual Awards Gala in mid-April, there was a hearty round of applause as master of ceremonies Chris Cimino called out the name of Stevens biomedical engineering professor Vikki Hazelwood Ph.D. '07, recipient of the 2018 Distinguished Alumni Award for Science & Technology and a faculty member since 2004.

"She is one of the most beloved professors on campus," noted Cimino, before yielding the podium to President Nariman Farvardin and Trustee Philip Crowley '71 for presentation of the award.

But when Hazelwood took the stage, rather than focusing on her own career and accomplishments, she began speaking about the dozens of students she had mentored at Stevens — and the ways in which those students use intellect and inspiration to help improve life for surgical patients, patients with disabilities, pediatric patients and countless others.

"I get some of the best and the brightest and the most savvy engineering students in the world," she told the crowd. "[Yet] they're only 21 years old!"

And when she paused to tick off numbers — how nearly 50 of her students had received patents for work that began as Stevens design projects; how a dozen more would file patent applications before the year was out; and how a few had even launched startups while still enrolled — the room erupted in applause again.

FROM SALES WIZ TO ACCLAIMED INSTRUCTOR

Hazelwood didn't set out to become an award-winning professor. Growing up in New Jersey, she had her eye on a career as a physi-

cian and would eventually embark upon a successful 15-year career in process equipment sales and project management, a master's degree in biomedical engineering, and a second career in medical device and surgical sales — until a fateful invitation led her to higher education.

When professor Art Ritter joined Stevens in 2003 to create new undergraduate and graduate biomedical engineering degree programs, he asked Hazelwood to visit campus and give a guest lecture. Soon, he was inviting her to join full-time as a researcher and lecturer.

Competitive by nature — during her free time, she is a competitive waterskier — Hazelwood rose to the challenge and accepted.

"I always knew I wanted to teach," she says now.

Together the duo began building a program that has since grown by leaps and bounds, becoming a formidable building block of one of the university's signature research pillars as well as one of its most popular majors. Today she remains one of the program's instantly recognizable faces. In May, when 21 students (including 16 undergraduates) were inducted into the campus chapter of the National Academy of Inventors (NAI) as new fellows, Hazelwood was there beaming proudly, acknowledging the accomplishment and congratulating proud parents.

"The students here just get it," she says. "They're bright, they have an energy and an open-mindedness. They are thirsty for ways to put everything they have learned into perspective. They want to be prepared for their careers. Well, I had that career, so I can prepare you pretty well."

In addition to receiving the alumni award, Hazelwood has been twice named the university's Henry Morton Distinguished Teaching Professor; recognized by the New Jersey Inventors Hall of Fame with an Advancement of Invention Award; and inducted as an NAI fellow — one of just 115 women in the nation to be conferred with that honor.

Along the way, she also helped redefine Stevens' senior-year experience, methodically taking her advisees through the entire innovation process in the span of just a few months.

"The process is, in the first semester, we do concept and concept development. That's it," she explains. "By Christmas, they think they know what their project is. I tell them that that's the toughest part. In the second semester, they build and test, build and test."

But as her seniors churn out prototypes, navigate job interviews

"I get some of the best and the brightest and the most savvy engineering students in the world." — *Professor Vikki Hazelwood Ph.D. '07*

and final exams and begin preparations for Commencement, Hazelwood also throws them into a crash course in real-world entrepreneurship during their final months on campus.

"I require them to write up summaries and pitches for their projects," she says. "I send them to present at conferences. I have them watch me make decisions on my feet. This is all part of the business environment, and they need to know it."

That hands-on approach has worked. Hazelwood-mentored teams have prototyped and presented dozens of novel devices and technologies at Stevens' annual Innovation Expo showcase each spring, including catheters, measurement devices and athletic headgear; hypothermia treatments; and flotation devices for military personnel.

"Her stamp of approval was very important to us," recalls Hannah Timm '18, who graduated in May and is part of a team filing a patent application for a new therapy device the team created during the members' senior year to assist children with cerebral palsy. "She is a legend in the Stevens BME department: a strong presence, very experienced in business processes, a woman in engineering, a role model."

ENABLING STUDENT SUCCESS AFTER STEVENS

Alumni whom Hazelwood previously advised currently serve in key roles at leading healthcare firms such as Johnson & Johnson, Cooper Surgical, Bristol-Myers Squibb, Becton Dickinson, Medtronic and Stryker. A senior trio she advised in 2017, CerebroSense, took home top prizes in national entrepreneurship competitions and medical conferences for its proposed touchless brain scanner. A number of the teams have spun off viable startup ventures.

Former students confirm Hazelwood's no-nonsense methods pay big dividends later.

"Dr. Hazelwood was one of the biggest determining factors in my career," says Jeckin Shah '05 M.Eng. '07, a senior director of risk management and project development at medical device company electroCore. "She encouraged me to get out of my comfort zone, be an entrepreneur and start a company."

Hazelwood's mentorship was particularly valuable, Shah recalls, with regard to business skills such as communications, marketing and patent protection. That training enabled him to take his own senior project (a muscle pain-detection device) and create a viable startup immediately after graduation, paving the way for his present career.

"She was the first to introduce us to the business side of design and innovation," explains Shah. "You need to be able to protect your intellectual property, make presentations and function in the real world if you're going to carry your project through. And that's what Dr. Hazelwood does exceptionally well: She puts you in the real world by applying your research in a business-like environment."

"Dr. Hazelwood taught us how to think about business problems in the medical community and engineering problems in the medical community," agrees Edan Golomb '13, a New York City business consultant and former design student of Hazelwood's. "Not just 'How do I solve this technical problem?' but 'How do I solve the regulatory and business problem?'"

"She loves what she does, and she wants her students to do well after they graduate," adds Shah. "You couldn't ask more from a professor."

"I do love these kids," says Hazelwood. "They're fun, they're extremely bright, and they have demonstrated that they can do and accomplish so much more than they ever thought they could. And I always have the confidence that they will accomplish more."

"Why should I settle for anything less?" ♦ — *Paul Karr*

Professor Vikki Hazelwood Ph.D. '07, at center, and Professor Christos Christodoulatos Ph.D. '91 (behind Hazelwood), with newly inducted National Academy of Inventors Stevens student fellows in May 2018.



A black and white photograph of a man with glasses, wearing a suit and tie, looking down at a rolled-up document he is holding. He is standing in front of a chalkboard with some faint writing on it.

Professor Honored with Historic Gift

A historic gift made in memory of humanities professor John F. Richardson Hon. M. Eng. '66, above, has come from one of his former students, the late Robert G. Steeneck '61, opposite.

RICHARDSON PHOTO: ARCHIVES & SPECIAL COLLECTIONS, SAMUEL C. WILLIAMS LIBRARY

FORMER STUDENT LEAVES \$1M TO CAL

Robert G. “Bob” Steeneck ’61 lived a full life. After a stint in the military, he built a career doing what he loved: automotive engineering. He worked on jet engines at General Electric and then moved to Ford, where he focused on truck emission and fuel economy calibration. He also loved to travel and visited many countries. He would tell you he stood out in China — he was 6’8” — and, as an avid backpacker, that his greatest accomplishment was hiking the Appalachian Trail. He might also tell you that, at least in some small way, a certain professor at Stevens helped make these things possible.

“He was one of the first students to go into the science program and had some challenging times there,” recalls Thomas Steeneck ’64, Bob’s brother. “Richardson really helped him out during that time and he never forgot it. It made a big difference to him.”

“Richardson” is longtime humanities professor John F. Richardson Hon. M.Eng. ’66, who died in 1971, but still touched the lives of his students long after. To commemorate his gratitude to Richardson, Bob, who passed away this April, left a \$1 million gift to Stevens’ College of Arts and Letters (CAL) to honor the admired professor’s memory. It is the largest gift in the school’s history.

“This gift emphasizes that Stevens’ long-standing tradition of commitment to the humanities has had an impact on our alumni, and that it does play a part in producing Stevens graduates who are well-rounded individuals, who enrich our culture and society,” says CAL Dean Kelland Thomas. “Professor Richardson and the humanities made an impact, and it’s reflected in this gift named in his honor.”

While the gift’s use has not yet been determined, it’s qualified as unrestricted, which means it can be used toward anything to help the school — scholarships for de-



serving students, new facilities or new faculty. “Speaking for the entire CAL community, we are humbled and grateful for Robert Steeneck’s generosity and support of Stevens, which will improve the lives of our students for generations to come.”

A definitive benefit of the gift is carrying on Richardson’s legacy. After graduating from Fordham in 1934, Richardson earned a law degree from Columbia and did graduate work in international law at The Hague, home to the United Nations’ International Court of Justice. He served in the Army during World War II, earning the rank of major, and then earned a master’s from Columbia before landing at Stevens in 1946.

Dr. Edward Foster Hon. M.Eng. ’90, who taught literature at Stevens for 49 years and would serve as director of the Division of Humanities and Social Sciences and dean for administration in CAL, felt Richardson’s impact on campus.

“Speaking as a colleague, John was a very gentle, very understanding person. He took his job seriously, and since I was young faculty at that time, I was grateful for whatever encouragement and suggestions he offered me in approaching a situation,” says Foster, who retired in 2016. “It was my first experience teaching at a university, and he was an

amazingly understanding mentor, which I needed at the time. He spared hours suggesting things students would respond to. I don’t think I could have asked for more, starting out as an instructor.”

Foster also saw first-hand how dedicated Richardson was to his students.

“John lived across the street [from Stevens] with his family, so he was always available, always committed to his work. He was educated at The Hague, you know, and I think he learned not just law, but also diplomacy, which made him especially effective as a professor.”

Foster recalls a specific moment that really illustrates what Richardson meant to Stevens and its students. Richardson had been diagnosed with cancer and had recently spent time in the hospital.

“But he came back to teach, and I recall one of the last times I saw him. He was coming down the hall in the old Navy Building [where the Babbio Center now stands] and I was so glad to see him. But you could look in his face and he knew his days were limited,” Foster says. “But there was this whole bevy of students following him in the hallway, just so happy he was back. Even then, he was still teaching and still making a difference.”

Richardson’s impact will now make a difference to future generations of students, courtesy of this historic gift.

“My brother was doing his will and said he wanted to give money to Stevens, which made sense to me because we went there and so did my father, Robert, Class of 1926, and my uncle, Henry, Class of 1921. And then he told me the amount and I said ‘OK,’” Tom chuckles. “But it’s appropriate because I think Bob would really like to keep Professor Richardson’s memory alive. He took the extra time to help my brother out, and it made a difference that stayed with Bob throughout his life.” ♦ — Rebecca Markley

INNOVATION EXPO SHOWED WHAT'S POSSIBLE

From a solar-powered boating system and a hydrogen fuel cell car to a cryptocurrency exchange and an e-commerce sales forecasting platform, this year's Innovation Expo at Stevens showcased the breadth of innovative research, educational achievements and entrepreneurship taking place at Castle Point.

At multiple venues spread across Stevens' 55-acre hilltop campus on the Hudson River, scores of visitors actively engaged with Stevens students to learn more about their senior design projects, the capstone of the Stevens undergraduate experience and the culmination of an education focused on problem-solving, multi-disciplinary thinking and teamwork.

"We utilized everything that we learned over the years. All the classes that we've taken went into our senior design. So it was really satisfying to see it all come together and represented in this one project," said David Schulz '18, who worked on InnoVax, an egg-free method for producing flu vaccines.

The capstone senior design experience was a revelation for some, including Nicholas Rhein '18, co-creator of SafeCycle, a panoramic

mirror system that provides increased spatial awareness in order to make cycling safer.

"I've had experience with consumer product development at places that I've worked, but to actually implement something that was my own design rather than someone else's gave me a creative freedom that I've never had before," he said.

In addition to displays of senior design projects, the campus-wide, day-long celebration featured elevator pitch competitions, tours, guest speakers, a research poster session and reception.

AND THE WINNER IS...

A packed audience at Stevens' DeBaun Auditorium loudly cheered on ten student teams competing in the elevator pitch competition for cash prizes totaling \$17,500 (first place: \$10,000, second: \$5,000, and third: \$2,500), made possible by the generosity of the Ansary Foundation.

This year a distinguished panel of business,

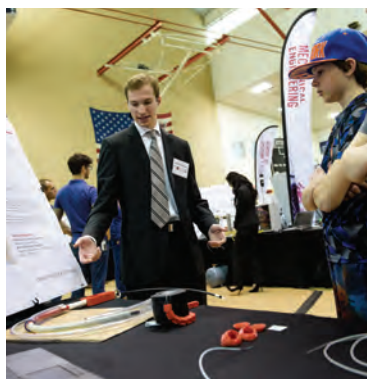
academic and community leaders awarded first place to the team behind Ortholnsight (Ted D'Amico, Ian Hipschman, John Mottole, Hashem Seli and Izabela Serowik, who were advised by Stevens professor Eirik Hole), a first of its kind sensor-enabled "smart" implant for knee joints aimed at preventing knee replacement revision surgeries.

The MiraView team (Francisco Charro, Seth Kirschner and Gregory Mercado; faculty advisor: James Biagi) came in second for their design of an app that promises to deliver digital therapeutics in the recovery and treatment of patients suffering from post-traumatic stress disorder (PTSD).

The third-place team of ApneAir (Alena Davis, Nicole Fosko, Zachary George and Ruth-Ann Gonzales; faculty advisor: Sally Shady) worked with clinical advisors at Hackensack University Medical Center to develop a system of sensors that could monitor the nasal airflow in premature infants, potentially saving the lives of newborns. ♦ — *Young Soo Yang*



To learn more about this year's student projects or to support next year's Expo, visit stevens.edu/expo



Some moments from this year's Innovation Expo included, above, Stevens leaders and Attila celebrating a job well done by students. Pictured, from left, are Associate Dean Kishore Pochiraju, President Nariman Farvardin and Provost Christophe Pierre.

PHOTOS: JEFF VOCK



CLASS OF 2018 *Celebrated*

The graduates of Stevens Institute of Technology's Class of 2018 are making their mark on the world in many ways. They're applying their education and training to build sustainable, safer communities through green infrastructure design; engineer and construct soaring skyscrapers that will transform city skylines; develop healthcare innovations that will save and improve lives; and introduce new ways of experiencing art and music.



To celebrate their achievements and wish them success in their future endeavors, the Stevens community gathered to commemorate the graduation of approximately 1,800 undergraduate and graduate students at the Meadowlands Expo Center in Secaucus, New Jersey, on May 23, 2018, which included an appearance by members of the "Old Guard," an elite group of Stevens alumni who graduated from the university more than 50 years ago.

Stevens President Nariman Farvardin congratulated this year's graduates on their achievements, wishing them success in the next phase of their journeys in life, reminding them how they will follow in the footsteps of luminary Stevens graduates such as Alexander Calder, Class of 1919, who introduced the art form known as the mobile (*See more on Calder on page 31.*); Mark Crispin '77, inventor of the IMAP email protocol; and NASA pioneer Aaron Cohen '58 Hon. D.Eng. '82.

"One can imagine the impact of innovations such as autonomous vehicles, routine commercial space travel, 3D-printed organs, brain-computer linkages and many yet-to-be-created innovations," said Farvardin, "that will constitute the next chapters in the story of the human race. And you will be authors of that story." ♦ — *Young Soo Yang*



Above, members of the Old Guard alumni — those who have graduated more than 50 years ago — march in the 2018 Commencement ceremony. Below, bottom photo, first in class graduates, all with a perfect 4.0 GPA, are, from left, Ian Porada '18, Marko Djapic '18, Katrina Guido '18 and Roger Kleinmann '18 M.Eng. '18.

Photos: Kathy Cacicedo



YANKEES DRAFT STEVENS ACE

Ask Charlie Ruegger about the phone call he got from the New York Yankees about being selected by the team in the 2018 Major League Baseball draft, and you get the sort of response you'd expect from anyone — shock, surprise, disbelief.

But when Ruegger uses words like those to describe being drafted in early June, it's a little different from other players' experiences. Ruegger is a junior in the quantitative finance program at the School of Business at Stevens, so his coursework is all about business, computer science, math and statistics, including probability.

In other words, he knows the long odds of an NCAA player getting drafted, let alone making it to the show. The most generous statisticians say a boy playing in high school has less than a 1 percent chance of being selected; only one other player from Stevens has ever been picked in the draft.

"I was shocked. It was so surreal that a kid from a small town, from a small program, could get drafted," Ruegger said.

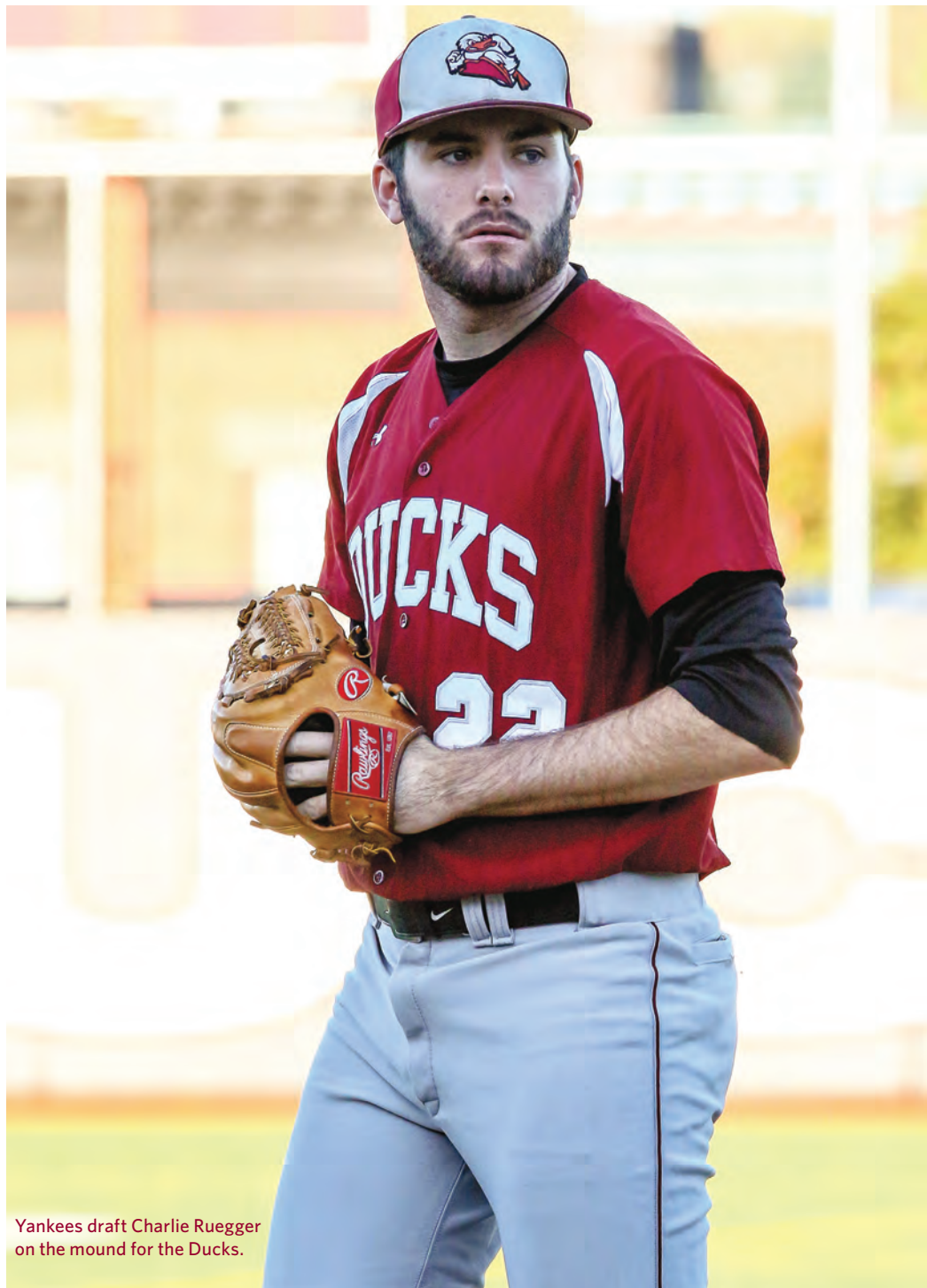
FROM HIGH SCHOOL RECRUIT TO STEVENS STAR

It all started on a T-ball team in Livingston, New Jersey, where Ruegger got his first taste of the diamond before his family moved to Morris County and he discovered pitching. He was a standout on the mound at Whippany Park High School but wasn't heavily recruited by big-time athletics colleges.

As it turned out, Stevens was a perfect match for Ruegger, who was just as interested in an academic challenge as an athletics one.

"Moving from high school to college, the biggest focus for me — and for my family — was academics, so I was already looking at Stevens," he said. "But when I visited and spoke with coach Kristaps Aldins, I saw that I had a real opportunity to continue playing baseball at a high level."

Upon arriving at Stevens, Ruegger strove to



Yankees draft Charlie Ruegger on the mound for the Ducks.



make a mark in the classroom. Growing up, he was always fascinated by technology, and after taking courses in business and computer science in high school, he decided to pursue the quantitative finance degree.

"QF was a perfect fit for me," he said. "I liked my general business classes, but the finance courses I took were very interesting to me. And the combination of finance and computer science was really appealing, because it goes beyond the kind of general finance degree you can get anywhere."

On the field, meanwhile, Ruegger got a taste of just how hard it could be to advance beyond

Field to watch the Ducks and their star pitcher in action. With an 8-2 record and Pitcher of the Year honors in the Empire 8 Conference, Ruegger attracted a crowd as the spring wore on.

"I learned to not overthink or try to do something I wouldn't ordinarily do just because scouts are watching," he said. "You have to stay within yourself and keep your focus."

That focus paid off.

"We scouted Charlie multiple times this spring and summer while he was pitching for both Stevens and Wisconsin Rapids," said Damon Oppenheimer, Yankees VP, Domestic Amateur Scouting. "He impressed us with his

"I was shocked. It was so surreal that a kid from a small town, from a small program, could get drafted." — Charlie Ruegger

the NCAA level.

"Coming in as a freshman, we had some senior guys who were really good, a ton of accolades, really great players," he said. "And at the end of the season, to see those guys not get drafted was a real eye-opener as to how hard it is to make that next level, no matter your ability."

SUPPORT FROM COACHES

The coaching staff saw a lot of potential in Ruegger, though, encouraging him to play in high-level summer leagues — he pitched for the Wisconsin Rapids Rafters in the prestigious Northwoods League — "and in competing against those other guys, I was able to feel as though I could compete against anybody."

Coach Aldins called Ruegger, the first Stevens player drafted in 45 years, a hard worker on and off the field.

"I know that his best is still yet to come," Aldins said.

Aldins also helped Ruegger prepare for the professional scouts who traveled to Dobbelaar

ability to locate his fastball, which has quality sink and ranges from 89 to 94 miles per hour. He was also able to locate his slider, and it showed potential to be a swing-and-miss pitch. We also like Charlie's size and growth potential, and we can envision him developing even more velocity once he immerses himself in our strength and conditioning program and pitching program."

Now that he's signed an entry-level contract with the Yankees, his next step is figuring out where he fits into the organization's plans. And while that means postponing his studies, he said completing his Stevens degree remains a top priority for him.

"The professional minor-league life can be long and taxing," Ruegger said. "It's important to me that, when the time is right, I can walk away from playing baseball and be able to move right into the business world." ♦

— Joe Arney



For more on Stevens athletics, visit stevensducks.com

CALENDAR

SEPT. 29-30
SATURDAY-SUNDAY

Athletics Alumni Day with Athletics Hall of Fame, alumni and student games Stevens Campus

OCT. 5
FRIDAY

New Jersey Symphony Orchestra Opening Night Celebration, honoring Stevens President Nariman Farvardin and NJSO Community Relations Liaison Florence Johnson, New Jersey Performing Arts Center, Newark, NJ

OCT. 6
SATURDAY

DeBaun Auditorium 20th Anniversary Celebration Stevens Campus
connect.stevens.edu/rsvp/DeBaun20

NOV 28
WEDNESDAY

The President's Distinguished Lecture Series, with MIT professor Daniela Rus DeBaun Auditorium
stevens.edu/lecture

DEC. 8
SATURDAY

Alumni Holiday Party Bissinger Room, Howe Center Stevens Campus

DEC. 15
SATURDAY

Stevens Christian Fellowship Reunion Bissinger Room, Stevens Campus



For all events, visit stevens.edu/events

BREWING BENEFITS

COFFEE SCENT MAY BOOST TEST SCORES, EXPECTATIONS



Drinking coffee seems to have its perks. In addition to the physical boost it delivers, coffee may lessen our risk of heart disease, diabetes and dementia. Coffee may even help us live longer. Now, there's more good news: Research at Stevens reveals that the scent of coffee alone may help people perform better on the analytical portion of the Graduate Management Admission Test, or GMAT, a computer adaptive test required by many business schools.

The work, led by Stevens School of Business professor Adriana Madzharov, not only highlights the hidden force of scent and the cognitive boost it may provide on analytical tasks, but also the expectation that students will perform better on those tasks. Madzharov, with colleagues at Temple University and Baruch College, recently published their findings in the *Journal of Environmental Psychology*.

"It's not just that the coffee-like scent helped people perform better on analytical tasks, which was already interesting," says Madzharov. "But they also thought they would do better, and we demonstrated that this expectation was at least partly responsible for their improved performance." In short, smelling a coffee-like scent, which has no caffeine in it, has an effect similar to that of drinking coffee, suggesting a placebo effect of coffee scent.

In their work, Madzharov and her team administered a ten-question GMAT algebra test in a computer lab to about 100 undergraduate business students, divided into two groups. One group took the test in the presence of an ambient coffee-like scent, while a control group took the same test in an unscented room. They found that the group in the coffee-smelling room scored significantly higher on the test.

Madzharov and colleagues wanted to know more. Could the first group's boost in quick thinking be explained, in part, by an expectation that a coffee scent would increase alertness and subsequently improve performance?

The team designed a follow-up survey, conducted among more than 200 new participants, quizzing them on beliefs about various scents and their perceived effects on human performance. Participants believed they would feel more alert and energetic in the presence of a coffee scent, versus a flower scent or no scent; and that exposure

**"OLFACTION
IS ONE OF OUR
MOST POWERFUL
SENSES."**

— STEVENS PROFESSOR ADRIANA MADZHAROV

to coffee scent would increase their performance on mental tasks. The results suggest that expectations about performance can be explained by beliefs that coffee scent alone makes people more alert and energetic.

Madzharov, whose research focuses on sensory marketing and aesthetics, is looking to explore whether coffee-like scents can have a similar placebo effect on other types of performance, such as verbal reasoning. She also says that the finding — that coffee-like scent acts as a placebo for analytical reasoning performance — has many practical applications, including several for business.

"Olfaction is one of our most powerful senses," says Madzharov. "Employers, architects, building developers, retail space managers and others can use subtle scents to help shape employees' or occupants' experience with their environment. It's an area of great interest and potential." ♦ — Paul Karr

alumni**news**



I'VE GOT THE WORLD ON A STRING

Can you identify any of these alumni, circa 1950s?
(One of them wears a Theta Xi sweatshirt.)
If so, please email editor@alumni.stevens.edu.

PHOTO: CHARLES PHELPS CUSHING

SAA President's Letter

A new school year, and new beginnings

As we begin a school year, and look forward to new beginnings, we can report that the constitution and bylaws for the Stevens Alumni Association that you approved last year successfully went into effect on July 1, 2018. The task of modernizing our SAA has truly proven to be a monumental one. I am thankful to the thousands of alumni who have participated in the process to date — from initiating the review of our governance documents to now implementing a new structure which will allow for the increased participation of our alumni community.

In 1906, the Alumni Association was “formed ... to establish, maintain, and cultivate among its members a sentiment of regard for one another and of attachment to Stevens Institute of Technology, and to promote in every way the interests of the Institute.” In 2018 and in the years to come, this will continue to serve as the mission of the Association Board, simply with a new framework we trust will allow for the improved representation of an alumni community numbering more than 40,000 members residing and working around the world. Each of the newly elected and appointed directors has committed himself or herself to serving as torchbearers for our alumni association, giving of their time, talent and treasure to strengthen our network and support our alma mater. I want to thank each of them for their service to the SAA, as well as each of you for taking the time to vote on the slate that will represent you. As we continue to work toward fully implementing the new governance structure of the SAA, I encourage you to become even more involved with your alumni association. Consider joining one of our new committees and adding your voice to the conversation as we discuss how to better engage our alumni across the generations and the globe.



With the official adoption of its new constitution and bylaws, the SAA has started a new phase. As has been the case in its more than 110-year history, this has only been possible due to the many alumni volunteers who have worked side-by-side to improve how we serve and connect members of our alumni community. Why have these alumni decided to stay so actively connected to the association and their alma mater? We recently caught up with some of our most dedicated volunteers and leaders — past SAA Presidents for this issue — to ask them. You can hear from them throughout this issue's Alumni News section (starting below) and in future issues of *The Indicator*.

Thank you for allowing me to continue to serve as your president as we kick off this new era. I ask that you stay connected and help us strengthen our alumni community. Join us at one of our affinity or regional club events. Stop by the Alumni Office, on the 8th floor of the Howe Center, for a visit when you are on campus. Make sure you are signed up for our e-communications, so you can read the latest news and updates. Visit www.stevens.edu/alumni for more information about how to stay informed and involved!

Per aspera ad astra,

A handwritten signature in black ink that reads "Victoria Velasco".

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

“

Stevens' education was a pivotal experience for me, and so the opportunity to give back as I grew in my professional career was warmly welcomed. Volunteering is truly a lesson in what it means to be a servant leader and an experience I would encourage everyone to embrace. — Gerry Crispin '69 M.S. '72 (1990–1991)

”

Class Logs

'46 July 5, 2018 — In my first attempt at logging the '46 *News at a Glance* update, I've crashed.

Somehow, I was under the impression that I'd find in my email inbox an early warning signal about a week or two before the next deadline due date for *The Indicator*, so I haven't been working on it. I had promised that I would be contacting all known Class of '46ers — at least, or as starters, all those who have email addresses listed with the Alumni Office. Alas, the "early warning" was today and the deadline is tomorrow!

So here's an invitation/solicitation/exhortation to Dick Albert, Dick Easterlin, T.R. Enright, Alan Gertz, Fred Jenkins, Ennio Rocchini, Fred Schneider, Leon Sealey and John Peeples to send me copy for these pages ... for the next issue. ("Nudges" are also addressed to those who are still listed as living '46ers: Bunnell, Eklund, Foster, Hutchinson, Jaroff, Kelly, Lederer, Oliver, Savage, Sedlack, Sidenius, Styer, Sullivan, Tanneberger, Tashjian, Wadieff, Week, Wehrer, and Zeppenfeld. I know only half of these guys ... for reasons explained in the last issue.) As mentioned previously, our classmates really do want to know, regularly, how you and your better half are faring, how many awards and honors you've garnered over the years, how you're spending your retirement years, how many times you've beaten your age on the links or how many great-grandchildren brighten your life. And we always have room for (high-resolution) photos. I think you'll agree that there's nothing more disappointing than a blank space following the class numerals.

Joe Schneider and John Misteli are "off the hook," since they contribute updates. Joe, our omnipresent-at-all-alumni functions classmate,



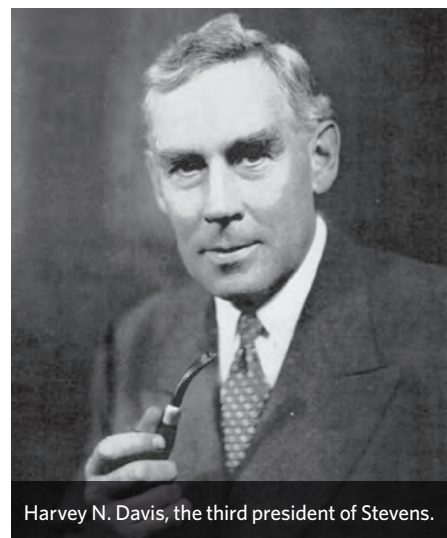
Dick Boera '46 at work inside the campus' machine shop, in a photo from Stevens' 75th anniversary publication released in 1945.

sent a thoughtful note recently in acknowledgment of his 94th birthday tease. I'm in touch with John fairly regularly. He and I were V-12 barrack mates in the Navy Building at Stevens in 1944-45, along with six other apprentice seamen. (His squeaky violin practicing drove us all nuts in those days.) John's dear wife Star died five years ago. He writes that "I plan to move (from Palm Beach Gardens) in the near future and am in the process of getting rid of stuff like you did a few years ago. It's a big job after living here for 37 years."

Talking about "getting rid of stuff," your class secretary had an unexpected, unwanted "visitor" in late April, a stroke. The stroke has weakened me, but no paralytic effect and I think my mind is intact. However, it was damaging enough to prompt us to make a move to an assisted living facility in South Burlington, Vermont — about ten miles from our previous digs — an independent living space with the feature that, when you need assisted living, you don't have to move; they bring the needed services to you. So just a month after my getting back from ICU we made the big move to this apartment, a traumatic experience with more downsizing involved. If it hadn't been for the superhuman work and support of our kids, their spouses and grandkids, we would be dead — literally! Chaos reigned supreme for two weeks, but now everything is pretty well-organized (99.9 percent), frames hung and "missing items" found. Both Julie and I are totally exhausted and hurting, but trying to get used to a whole new style of living. Meals and service are excellent; just one meal a day is included in the cost, but breakfast is no big deal to put together and we have a midday snack.

At 92, I feel like a youngster here. Among the 81 apartments in this complex — comprising mostly widows — I've been told there are seven folks over 100, up to 107! A neighboring fellow World War II vet is 104, looks like 65, bakes cakes and cookies regularly for his lady friends. I'm too exhausted to try to compete with that. I've worked up enough energy to play three full rounds of golf so far and am nearly back to my old scoring level — barely beating my age, the goal of all ancient duffers.

I received this email today from Victoria Velasco '04, president of the Stevens Alumni Association: "During the State of Stevens Address at Alumni Weekend, President Farvardin invited alumni to share suggestions and recommendations for Stevens' celebration of its 150th



Harvey N. Davis, the third president of Stevens.

Anniversary in 2020."

This prompted me to "exhume" from my archive (yes, I'm a squirrel, saving everything) the Stevens 75th Anniversary Commemorative publication, published at Castle Point in 1945. Yikes! Could the Stute have almost doubled in age during our lifetime?!? This 51-page, 9" x 12" paperback — dedicated "To the men of Stevens serving their country" — features illustrations of the original faculty, the Stevens locomotive, an 1898 photo of Stevens Men in the Naval Reserve (as well as the then-current V-12 color guard, the towing tank, a typical welding class, a machine shop photo, with me at the controls), articles about lacrosse and the Engineering Camp at Johnsonburg by John Davis, an aerial view of Castle Point's Upper Campus, and portraits of founder Edwin Augustus Stevens along with all the presidents of Stevens through our own esteemed third prexy, Dr. Harvey Nathaniel Davis. Wonder if others saved a copy of this interesting keepsake?

In Memoriam: Inevitably, we're saddened to report another loss from our '46 cohort. William J. Torrens, of Merrick, New York, passed away on May 16, 2018, at the age of 93. He was a member of the Navy V-12 at Stevens and was a World War II veteran. He was a lifelong employee of Long Island Lighting Company. Predeceased by his wife, Marjory, he is survived by four children, eight grandchildren, and ten great-grandchildren. His daughter, Catherine, advises that "Stevens meant a lot to him and he always spoke fondly of it and the time he was there even though it was a time of unusual circumstance—

SAA Update



Did you know that the Stevens Board of Trustees has five designated spots for alumni trustees? These individuals concurrently serve as leaders for the Stevens Alumni Association. Under the SAA's new constitution and bylaws, they will also now serve as appointed directors of the Association Board.

Pictured, from left, are the 2017-2018 alumni trustees Matthew Hunt '17 M.Eng. '17, Shane Arlington '16 M.S. '16, Annmarie Rizzo '86 M.S. '92, Victoria Velasco '04 and Joseph DiPompeo '98 M.Eng. '99. As their terms end, we would like to thank Shane and Annmarie for their service, and take a moment to welcome Olivia Schreiber '18 and Elizabeth Pallone '88 as their terms begin in September. (Annmarie will remain on the Stevens Board of Trustees as a charter trustee.)



es. He often told us stories about it and took us there when we were younger." — **A. Richard Boera**, Allenwood, 90 Allen Road, Apt.16, South Burlington, Vermont 05403, (802) 495-5815; arbjlb@comcast.net

'47 Leslie J. Kuzenski
The Alumni Office has learned that Leslie J. Kuzenski of Delmont, Pennsylvania, a longtime Westinghouse engineer, died on June 11, 2016.

Growing up on his family's farm near Allentown, Pennsylvania, he served in the Navy V-12 at Stevens and would later serve with the U.S. Naval Reserve for 21 years, retiring as a lieutenant commander. He moved his family to Pittsburgh in 1954 and worked as a mechanical engineer and supervisor at the Westinghouse Nuclear Power Division in Cheswick, Pennsylvania, retiring in 1986.

Surviving are his wife, Betty; three daughters; four grandchildren; and one great-grandchild.
— **The Stevens Indicator**, 1 Castle Point, Hoboken, NJ 07030, (201) 216-5531; alumni-log@stevens.edu

'48 June 2018 — Our ranks are surely thinning, but we have some great guys left!

Had a great phone call with **Peter Ash**, who lives with his wife, Estelle, full-time in Del Ray Beach, Florida. Living in Florida, for them, is great, as Estelle is an active gardener. And their family keeps growing, currently with many grandchildren and great-grandchildren. Peter had been an expert tennis player and bridge player but has now given up his tennis playing and playing good bridge.

Had a great phone conversation with **John Koziol**. He has been living in Minnesota for the past 50 years and loving it! At age 93, he is going

strong. Walks every day and still drives his car though he's thinking about giving up driving. His message for the rest of us was to "Keep it going!" Until last year, he always shoveled the winter snow himself — a major job in Minnesota. He's an inspiration for the rest of us.

Miles Kuchar and I just finished a good conversation. At age 96, Miles is doing well. He has had a fantastic career as a general contractor in New Jersey, successfully taking on major contracts that his contemporaries wouldn't touch.

My calls to **John Hayes**, **Francis Murray** and **John Nelson** make contact with a service, but I never received a return call. I assume they prefer to limit their calls and hope that they are enjoying life.

Telephones are no longer connected for **Walter Ewanus**, **Joe Heinz** and **Walter Johnson**. Alumni Office records show that Walter, Joe and Walter are still living, though we recently discovered that **Albert Krug** is deceased — our sympathy to his family.

I am unable to make contact with **Walter Sch-nabel**, and **Peter Hannan** has asked that we not make contact with him. I hope that he is doing well. **Thomas A. Pesci** died on Feb. 22, 2013.

So this covers 13 of what I believe were 22 remaining members of the Class of '48. The nine other members are **Robert Bruce**, **Eddie Cassinis**, **Martin Graham**, **Dan Haagens**, **Howard Heydon**, **Gus Scutti**, me (**Lou Shook**), **Curt Van Valken-burgh** and **Jim Ware** (of whom we had news four months ago). More about these classmates next time.

It is great to see in the last *Indicator* pictures of my old classmate **Joe Schneider '46**, who is still active at Stevens! — **Lou Shook**, 220 Bay Colony Drive, Virginia Beach, VA 23451; (919) 619-3955; loushook@cox.net

'50 Guest log by **Walt Carow**:
June 2018 — Hello, surviving February and June classmates, Walt Carow here.

The Indicator has changed its policy for the class logs. If there is no class log, then there will be no heading with contact information for that class year. So I'm writing to get us noticed, as we move toward the beginning of the logs.

Called **William VandeVaerst** for an update. He and his wife, Joan, have lived in a house on an acre one block off of Lake Wallenpaupack, Pennsylvania, for 24 years. Spends his time taking care of the house and doing complex puzzles. He is 89, is in good health, and has been retired as long as he worked. Did a lot of overseas travel in his job at Singer. They are looking to sell and go to independent living. They have three children, six grandsons and four great-grandchildren.

Tried to call **Bob Bosse**, but no luck. Bob and his wife, Rose, were very active supporting Stevens, and he received the Lifetime Service Award at the Stevens Awards Gala in 2014, plus earlier awards. He was a trustee for 25 years and active in many Stevens organizations. His wife passed away in December 2016 after 58 years of marriage.

Since I have no other class data, I can only write about myself. I am 89, as is my wife Joanne. We are still getting around but in the wear-out stage. We have been married for 68 years.

We and the family have been living for the last 46 years in Tennessee. I came down to support the Gas Centrifuge Program in Oak Ridge, working for Electro Nucleonics in Fairfield, New Jersey.

The 1970s were the energy concern years. We bought an acre in Kingston on Watts Bar Lake, and I designed and built a solar design house. Our son and daughter followed us here, so we in-

cluded two apartments for them and one for my mother. It had four fireplaces, a wood stove and a solar collector. We enjoyed it, but with aging and the house being a chore to maintain, we sold it last year and now live in a rented apartment in Oak Ridge with a porch overlooking a park-like setting, with a large pond and walking trail.

We have also wintered in our condo on a golf course in Largo, Florida, for the last 28 years. (Tried golf but didn't care for it, so I just watch the golfers.) We do water aerobics three times a week. Great weather, seafood and the Gulf two miles away. Played tennis for many years but the players aged and the club dissolved. Still bike to the stores and around.

Please drop me a line at wcarrow@yahoo.com so I have some news for the next issue. Thanks. — **William VandeVaarst, 126 Timber Lane, Tafton, PA 18464-7798; (570) 226-7324; vaarst@outlook.com; wcarrow@yahoo.com**

'52 June 27, 2018 — In the summer of 2018, it has been a challenge to produce a class log for our class whose members graduated 66 years ago. There are currently about 60 of us left from the class of about 180 members who graduated in 1952. In addition, memories and methods of communicating are also much more challenging today, especially for me. I did receive a call from **Malcolm Mansfield**, who lives in the town of Bluffton, South Carolina. He was impressed by the recent *Indicator* articles about the role of Stevens and alumni involved in space exploration. Malcolm devoted a good part of his working years to the space program.

With the 150th year anniversary of the founding of Stevens coming up in 2020, I decided that it was a good time to review the information included in the commemorative brochure that our class prepared in 2002 as a record from our 50th reunion. That brochure is an impressive and comprehensive document, and copies were compiled and distributed to 93 members of the class who either attended that reunion or had completed and mailed a copy of their survey to the reunion committee. I was, and am, especially indebted to our class president at that time, **Helmut Koehn**, who was really the primary leadership force behind the success of that reunion. Sadly, he passed away on Jan. 21, 2004. He had been an inspirational leader over many years. I am also indebted to the many class volunteers

who participated in that reunion and preparation of that document. This includes those who have passed away: **Frank W. Heck**, 11/01/99; **Carl Hevert**, 04/27/14; **Robert N. MacMillan**, 09/27/15; **William Rossnagel**, 12/15/10; **Charles Schanzenbach**, 05/04/06; **William B. Silvestri**, 09/08/17; **Herbert P. Tinning**, 11/07/10; and **Edmund B. Wilson**, 01/03/14. There are many others who are alive and have been instrumental in the planning and participation of reunions over these many years, and they include: **Erwin Muller**, **Ed Kraft**, **Bob Mahran**, **Charlie Kientzler**, **Roger Beutner**, **Bob Csernia** and **Ed Michonski**.

The information in the brochure from our 50th reunion included the highlights of most of the events from the weekend, starting with our Rev. Herb Tinning's opening invocation and followed by a brief summary of the input from class members supplied in the survey. Also included was a class photo of all those in attendance and prints of the many photos taken during the reunion. Herb's opening remarks included a review of the welcoming address by Dean Shumway in September of 1948 to a group of aspirants who were starting their four-year journey for an education at Stevens. That group included many veterans of World War II and recent high school graduates. There was a total of 365 potential class members seated in attendance. The dean challenged all of us by indicating that if we looked to the right and left of where we were seated, at least one of us would not be there for graduation. When we did graduate in June of 1952, there were actually 169 of that original group left, and this had been supplemented by another 12 students who joined during the next four years, bringing the total to 181 seated on the Castle lawn in 1952 when we received our diploma for our treasured M.E. degree.

By the year of the 50th reunion in 2002, there were 147 class members on the active list. There were also 34 members who had passed away and were listed on the Class of 1952's Memorial Scholarship Honor Roll. If you were one of those 93 class members who had received copies of this brochure and still have it stored somewhere at home, you can find many more details about the reunion in that brochure.

It is now 2018 and there are approximately 60 of us alive; therefore the potential for current class news has diminished. There are currently 110 class members included on the Memorial Scholarship Honor Roll. I will be seeking new ways of getting information from class members.

My tenure as president of the Stevens Alumni Association provided me the opportunity to meet many alumni, faculty and administrators, all of whom have a deep affinity for Stevens.

— **Marty Valerio '68 (2003–2005)**

This includes phone calls to additional representative groups of those 60 class members. I will ask the following five questions as information starters: What prompted you to enroll in Stevens in 1948?; How did you meet the financial requirements?; Give me one interesting story (brief) about a milestone event that occurred during the four-year education period; Give me your impression of the job recruiting process in 1952; What has been a significant benefit of the Stevens educational experience over your lifetime?

I have already called six class members for their input. They are **Bill Baarck**, **Dave Demarest**, **Charlie Kientzler**, **Bob Mahran**, **Malcolm Mansfield** and **Erwin Muller**. Their input will be in future logs. If this idea works out, please expect a call for a discussion of these questions in the future. Sincerely, **Robert F. Wolf**. — **Robert F. Wolf, 3740 Broadview Road, West Lafayette, IN 47906-8608; (765) 497-3853; bobw3740@gmail.com**

'53 July 1, 2018 — Whenever I'm notified about the passing of a classmate, I, like most of the older class secretaries, take it as a personal loss, since every classmate is a close friend. This is completely understandable since older alumni shared the single M.E. curriculum with the same exams given by the same professors who made each exam so difficult that only half of entering classes were programmed to survive for four years. We attended 32 hours of classes every week where we learned how to place a T-square on a drafting board and how to melt ingots in a foundry class and, instead of a cell phone, we had to carry a primeval hand-held K&E slide rule. We competed fiercely for grades, with the average GPA being about a 2.5, as we sat through lectures by colorful faculty members like **Backer**, **Rettig**, **Bilyk**, my nemesis **Doc Arons**, **Fife**, etc. Each of these legendary professors flunked me, but that was not unusual since I flunked eight courses (one in each department). As a result, I will always be the only alumnus to have flunked both 7th-term gym (Partel) and summer camp

(Brett) during my four years and three summer sojourns at Stevens.

Our unusual lifelong relationships among older classmates were strengthened when the 400 of us in freshman year attended summer civil engineering camp for six weeks in the Johnsonburg Jungle, living in small bunk cabins, eating pizza and hot dogs for lunch every day. Then, in our senior year, after half the class flunked out, the surviving 190 seniors spent an entire week on a private Lackawanna Railroad car traveling throughout the Northeast visiting factories and coal mines, attended each day by a few of us who weren't hung over from drinking all night at some of the most riotous parties I ever passed out at.

By the way, the fee for the trip in 1953 cost \$100 and that was added to our \$800 a year tuition that covered food, lodging and transportation — but not liquor. Those on the weekly food plan had \$11.50 deducted from the \$100 fee for the 19 meals they missed. No one graduated with a student loan debt since our total tuition and

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

living expenses, including liquor and condoms for the four years, was less than \$7,850. It now costs much more for what I feel is a less vigorous Stevens degree, with no fond memories of camp or a rail trip.

The average college loan debt for our grandchildren is more than \$30,000, and there are more than 44 million in the nation who collectively owe \$1.5 trillion in student loan debt. Can you imagine having to pay a student loan with our starting salary being about \$3,500 a year, which was a high salary in 1953?

Steve Cuff wrote that he still skies out of his condo in Lake Tahoe. I asked him if I could use the ski house sometime and he said "no" after he heard about the cheap wine I left his fraternity brother **Kay Hurtt**, after using Kay's Vail condo. It's true — I left Kay a case of Thunderbird wine (vintage: August), but I had the decency to remove the labels and replace them with labels I stole from some of the finest restaurants in Vail. Evidently, Kay had told Cuff about his serving the wine, and his guests thought it was nauseating. In my defense, I had, in a previous year, gotten the use of a condo in Breckenridge that was

owned by **Larry Riccio '54** and left the case of the same cheap wine with phony labels, and Larry sent me a note thanking me for the thoughtful and expensive gift. It proves what I strongly suspected for years: the Class of '53 is a lot more sophisticated than the Class of '54. I think Larry would have enjoyed the wine even if I left Trader Joe's "Two-Buck Chuck" with the original labels in place.

Another thought that occurred to me was the ongoing argument I once made about the greatness of the engineering education at Stevens, comparable with MIT. As an example **Dick Harper** entered Stevens with our class in '49 after also being accepted to MIT. (Dick was a graduate of Brooklyn Tech that also gave us **Dick McCormack** and **John Henderson** and, I think, at least two others.) Anyway, after the first term Harper decided to transfer to MIT and left us. He spent that second term in Cambridge but came back for the final three years.

It seemed that all his instructors had been graduate students and none were as committed as our fully tenured and dedicated faculty. After graduation, Dick supported his wife through medical school (drove a taxi for extra money) and Rita Harper became a famous NICU doctor. I attended her incredible medical school graduation celebration at the Hoboken Clam Broth House around 1959. Dick and Rita were so broke that the sympathetic owner felt sorry for them, and he catered the affair for her 35 guests that included lobsters and steak, unlimited drinks and waiter service completely free (but that's another story). Dr. Harper is retired but has commanded the main medical tent in Central Park for the annual New York City Marathon. I ran at age 70 and beat 14 of the 26,578 runners.

During our junior and senior year, Dick was the president of our fraternity. In that position, he was instrumental in pledging one of the four Jewish members in our class that resulted in having officials from the national fraternity headquarters fly into Hoboken and threaten to remove the Stevens chapter from their restrictive organization. Dick ignored the threat, and the classmate who pledged the fraternity has served as the '53 class secretary for the last 65 years.

— **Charles Schnabolk, 7000 Kennedy Blvd. East, Apt. 42A, Guttenberg, New Jersey 07093; (917) 957-8492; ricochas@aol.com**

Alumni Weekend reunion, 5/31/19 – 6/2/19

'54 June 2018 — I sent a short email note to a number of our classmates for whom I have email addresses and received several responses. **Pete Kalika** said he really didn't have much to offer because both he and Joyce are doing well health-wise. Pete did mention that June 25 was their 63rd wedding anniversary. We wish them both well and many thanks for your response, Pete. Some notes I wrote bounced because of email address changes. However, an update from our class president **George Hromnak** indicates that with the exception of various medical issues and tests, things have been a bit slow for them in Florida. However, they have big travel plans for the summer, including a trip with their trailer up to New Jersey and Pennsylvania to visit family. Savannah, Georgia; Myrtle Beach, South Carolina; and the Jersey Shore will be included along the way. George mentioned that several other fall trips are also being considered that we may hear about in the next *Indicator*! Thanks, George, for the update.

I was happy to receive a very nice handwritten letter from **Edmund Trageser**, who now lives in Florida. Although the return address on Ed's letter showed Edmund as his first name, I remember us all calling him Ed, so that is what I will use here. Ed and Carol were married shortly after graduation and, unfortunately, Carol passed away 57 years later and he misses her terribly. After graduation, Ed took a job with General Dynamics Corp. and was sent to the electric boat division in Groton, Connecticut. Having gone through the AF ROTC program while at Stevens, Ed was eventually inducted and sent to McGuire AFB. He said that while there he was "nominated" to be the "air transport commander" in charge of 86 C-118 A/C and 12 RGG Naval A/C. Although he later left the Air Force, returning to civilian life and to General Dynamics, Ed said that looking back, his Air Force career were the best two years of his life. He received his MBA after returning to General Dynamics. I don't know for sure but I got the impression from Ed's letter that he may have regretted not staying in the Air Force. We thank you, Ed, for updating us all about your activities after graduation.

As you may recall, I was also in the ROTC program at Stevens and, soon after graduation, ended up going through jet fighter pilot training

at Laredo AFB in Texas. This was very early in the jet training era and no ear protection was used on the flight lines. Unfortunately, the high sound levels on the flight lines caused severe hearing damage that took many years to develop. I now have an 80 percent hearing loss in both ears that could get worse. As you may know, it is a very isolating injury, to say the least.

Patti and I continue to thrive. We only wish that our six kids and their families lived closer. However, we are thankful that Paul and his family live within a few miles of us. He is a big help to us. The others are located all around the country. Patti and I will be celebrating our 52nd year of marriage in July.

That is about all I have for you in this report, but I am hoping you will take a few minutes out of your busy life to provide me with an update of your activities for our next class log. In the meantime, stay happy and healthy. — **Jack Sanborn**, 3994 Ballynahown Circle, Fairfax, VA 22030-2498; (703) 754-6499; Jack62@aol.com; Pres. **George J. Hromnak**, 45 Glenridge Blvd., Homosassa, FL 34446-4450; (352) 382-7445; ghromnak@embarqmail.com

'55 June 28, 2018 — We continue in this *Indicator* issue, and for one or two more issues, what we began last issue: the bifurcation into a printed magazine portion (you have the second-such in your hands) and a mailed/mailed type-script portion (arriving hopefully in the same time-bracket as the magazine issue to which it pertains). This system preserves the 800-word limit on the *magazine* Class of '55 portion, while allowing the existing series on the overseas national origins of class members to continue.

In addition, in this issue we summarize, based on a review of your class secretary's 47 years (185 *Indicator* issues) of Class of '55 columns, some of the past professional achievements of our 110 Class members in aggregate, i.e. as a Class. In recent issues we have reported on Stevens' macro-level ranking against all other college/university-level institutions, by *U.S. News* (input rankings) and by *The Wall Street Journal* (input and output rankings). By reviewing our 185 past *Indicator* Class of '55 issues, we have constructed Class of '55 categories of micro-level aggregate career achievements for our class that are, when integrated across all Stevens classes, the basis of the above Stevens rankings at institutional-macro level.

Some '55 Aggregate Achievement Categories
(a) National/International Engineering/Science Awards: **Victor Saleman**, 1956 ASME "National Young Engineer of the Year"; **Richard Muller**, IEEE Award (2013); Royal Society of Edinburgh (2013) James Clerk Maxwell Award.

(b) Invited Members, the Congressionally Chartered National Academy of Engineering: **Shiro Matsuoka**, 1989; **Richard Muller**, 1992.

(c) Officers of Publicly Listed And/Or Exchange-Traded Stock Corporations: **Edwin Hess**, senior vice president, Exxon-Mobil; **George Weston**, vice president, Anheuser-Busch ("Budweiser"); **Ronald LeBright**, senior vice president, ABB Lummus Global (CEO Asia-Pacific); **Robert Gibbons**, vice president (COO), Carborundum Corp.; **Phillip Gevas**, president/CEO, Aph-ton Corp.; **Joseph Scerbo**, chairman, Pressed Steel Tank Co.; **William Palmer**, vice president (COO), McGinley Mills, Inc.; **Henry Buttleman**, president/CEO, Gibbs and Cox, Inc.; **Donald Daly**, vice president, Miltope Corp.; **Si Mathey**, president, Electroform Corporation; **Gordon Auth**, president, Auth Electric Co, Inc.; **Lester Wuerfl**, chairman, L.K. Comstock, Inc.; **Armand Bassi**, president, Arrowway, Inc.; **Al Canham**, CEO, Canham Enviro Concepts, Inc.; **Ed Merrell**, CEO, Main-10 Research, Inc.; **Joseph Pawletko**, IBM Fellow (equivalent at IBM to vice president in rank and reward); **Arnold Kelly**, CEO/chief scientist, Charged Electron Injection, Inc.

(d) National Professional Association Leadership: **James Spady**, American Bar Association, Committee on Civil Rights, secretary (1966-67); **James O'Brien**, CEO, MTM Association for Standards of Research; **James Spady**, American Society of Criminal Justice Planners, president (1969-70).

(e) Public Sector Executives: **Richard DeYoung**, U.S. Nuclear Regulatory Commission, assistant director; **James Spady**, special assistant to the governor and executive director, N.J. State Law Enforcement Planning Agency (1967-70); Col.(ret.) **Henry Mon**, director, Center Support, USAF.

(f) Doctorate and Terminal Professional Degrees: Cal Tech Ph.D., **Richard Muller**, **Arnold Kelly**; MIT Sc.D., **Joseph Wolf**; Princeton Ph.D., **Shiro Matsuoka**; UCLA Ph.D., **Robert Farrenkopf**; University of Pittsburgh Ph.D., **Edward Schmidt**; Polytechnic Ph.D., **Frank Cozzarelli**; NJIT, Dr. Eng. Sci., **Emil Neu**; Harvard Ph.D., **James Spady**; Arizona State Ph.D., **Bernard Meyer**; Harvard MBA, **Edwin Hess**; University of Virginia MBA, **Denny**

My term as president of the Stevens Alumni Association and my activity with the association have brought me closer to the institute and enabled me to meet wonderful people. Helping the university achieve its goals has always been time very well spent. — Mel Thor '68 M.S. '79 (1984-1985)

Candler; Drexel MBA, **Henry Bried**, New York University MBA, **Hans Jacobsen**; Xavier MBA, **Frank Lospalluto**; Columbia J.D., **James Spady**.

The categories assessed above do not capture all of the engineering/science/business achievements of the 110 members of the Class of '55 because many others are difficult to categorize. For example, **Rich Cimera** was a national leader in his field (inertial guidance) and was so recognized and awarded for his pioneer patents by the State of New Jersey. I am sure there are many other such achievements, whether patent or otherwise, but (without a class survey) they are difficult to know of, hence to categorize and list. Nevertheless, this column will gladly publish such other achievements if and as classmates make them known. They would make a very strong class-showing even stronger.

(2) Correspondence from Classmates

(i) **Dean Nold**: "When I retired 24 years ago, I was at the NASA/Langley Research Center in Virginia being paid by George Washington University as a Visiting Research Professor of Engineering and Applied Science. My first goal in retirement was to find my roots." (Apropos of the class column recently taking up class genealogy.) Dean writes that he and his wife searched in the hot Missouri sun "and finally found all the pieces. The Nolds arrived in 1854 from Germany — one year later we finished (the story in) a 225-page book.

"My grandson will receive his J.D. in a few weeks — he was the senior articles editor, the *Marquette Law Review*. Another grandson will start medical school this summer. One granddaughter is in the Peace Corps in Africa."

(ii) **William Palmer**: The current Palmer correspondence is moved to the mail/email portion because of space restrictions here. — **James A. Spady**, 200 Locust Street, 8D, Philadelphia, PA 19106-3917; (215) 922-1606 or (215) 880-3989; kinneyj@wharton.upenn.edu

'58 June 26, 2018 — Our 60th reunion is now history!! I was trying to think of a word or phrase that would sum up the weekend for those not present and all I could think of was “pride,” as in proud to be a member of the Class of 1958. Much of this was due to the recognition of our class, 1958, by President Farvardin, the Stevens administration and others as the leading supporter of Stevens’ recent turnaround and ambitious goals for future growth. The main driver, of course, was the gift of \$17 million by **Rich Harries** and his wife Carol, but it inspired many other ‘58ers to respond via the legacy challenge initiated by Rich, or just to help in achieving nearly 60 percent of the class donating to the various scholarship funds during our 60th reunion year. We were reminded also of **Tom** and **Doris Lung-hard**’s earlier large legacy gift of \$350,000 that set a standard for giving for the Class of ‘58. We missed Tom and Doris at the reunion since, as reported earlier, Tom has some medical problems causing him to relinquish his duties as class president and reunion committee member.

As President Farvardin (who was with our class for much of the weekend) pointed out, it is more than just the financial support — it is the active leadership of class officers and reunion committee resulting in the support of alumni and campus activities, as well as an interest in the path Stevens is taking to meet the needs of the ever-changing world of technology. A long way from our one-course, one-degree curriculum, aside from now having about 30 percent of wom-

en in the incoming class.

The weekend: For several of us, Alumni Weekend 2018 was a four-day affair beginning with the Philanthropy Dinner on Thursday evening, during which Carol and Rich Harries were recognized and honored. The ‘58ers present included: **Mestanas**, **Fiocco**, **Walker**, **Ficken**, **Bendelius** and **Bonner**. Speaking of arrangements, at first we were disappointed that there wasn’t on-campus housing available since the dorms were being refurbished, however the old-line Sheraton hotel in Weehawken proved to be more than adequate. It had its own ferry slip, and every few minutes this little ferry zipped in for two minutes to unload and load and zipped out for mid-town Manhattan. We were fascinated — it reminded us of ...“the little engine that could.” It was an easy drive or shuttle bus to campus. And as an indication of our privileged status, we had dedicated parking spaces, readily available golf carts and staff available to assist us in any way they could. The focus, of course, was the Friday night cocktail hour and dinner in the Sam Williams Library, for which we had a fully planned agenda. An indication of prosperity or maybe our special status — the hors d’oeuvres served at the cocktail hour were lamb chops and filet mignon skewers, a long way from hush puppies!

The attendees: We had 37 in attendance including spouses/significant others. The easiest way is to list all and hope that I don’t miss anyone. Those with spouses/significant others included: **Mestanas** (Jasmine), **Walkers** (Barbara), **Peppers** (Rosemary), **Fickens** (Gael), **Bon-**

ners (Pat), **Fiocco** (Sue Ellen), **Buzzones** (Bobbi), **Sowis** (Sandy), **Katsches** (Janet), **Aschoffs** (Patty), **Nisensons** (Beverly), **Harries** (Carol), **Schuberts** (Helen), and the **Boyles** (Rosemary) only for Saturday barbecue. Those who came as singles were: **Bond**, **Bendelius**, **Smolen**, **Shim**, **Greiner**, **Del Ben**, **Wu**, **Bonnici** (a guest and ex-‘58er) and **Florio**. We must include a sad note... we had learned that Art Bendelius’ wife, Ginny, a fixture at all our reunions, died after a long battle with cancer, and similarly Roger Bond’s wife, Ruth, also a 50th reunion attendee, passed away a short time ago. We appreciated that both Art and Roger saw fit to come to our 60th, and we had the opportunity to offer our condolences to them and their families in person.

Random observations and conversations: Alan Greiner was one of the first to arrive, quite early trying to avoid horrendous Friday night New Jersey traffic, and waiting for his “high school” classmates, Messrs. Milan Sowis and Bruno Katsch. I must speak to Sandy Sowis — I understand she was able to arrange another great deal on a New York City rental apartment for a month in winter to take advantage of the city’s cultural offerings. Bruno is still tracking the stock market; 2017 was a great year but 2018 is uncertain. Ivan Shim, up from Florida, still looks in great shape due to lots of tennis and other sports. One young-looking couple arrived whom I did not recognize at first, I thought they might be interlopers from a 1960s or 1970s class. Up close, I realized it was Thorpe Aschoff and his wife, Patty, definitely a classmate. I guessed California or Florida but again I was wrong — they live right outside Philadelphia. They attribute their youthful look to lots of golf and other sports, and as I observed as a tablemate at the dinner/dance, they maintain strict dietary habits. Is that really all it takes?

It was enjoyable to see another trio together again: “Tiny” Harries, Bud Schubert and Reno Del Ben. We could see that Bud and Reno have some medical issues (but don’t we all), but I think Tiny gave the word that he would be very pleased if they could come and be part of his celebration.

The highlight for me was catching up with my fellow Bayonneite Stan Nisenson and his wife Beverly. Stan headed west to California right after graduation, and if I’m correct has only been back once to meet up with any Stevens guys. Stan still has his air conditioning business (which I think Beverly would like to see him give up and retire). Stan could stay just for the night, saying they have been on the road for 17 days straight



Highlights from the Class of ‘58’s 60th reunion included, clockwise from top left, Mike Bonner ‘58 being recognized for his long service as class secretary and reunion committee member (with him is Stevens’ Dawn da Silva); ‘58 committee members, from left, Art Bendelius, Bob Walker and Bob Fiocco (with President Nariman Farvardin, second from left), present the university with a record-breaking \$17.4 million class gift; and Richard Harries ‘58 enjoys the weekend.



and had to head back west. Another sad note — Stan called his old friend **Joe Ciccia**, who is now 88, but Joe had trouble remembering Stan and obviously also had some medical issues.

The Alumni Office staff finally dragged us over to our dinner tables, and our Friday night dinner continued with the planned agenda led by Nick and Bill Pepper. President Farvardin gave some glowing remarks about our class and spoke about one of his biggest joys and problems: The incoming freshman class in September 2018 will be 1,000 students, the largest ever (with out-of-sight GPAs); and housing for these students is a bit of a nightmare. To this end, long-term plans are to raze Hayden dorm and Jacobus Hall (say it isn't so — **Bill Giles**, I think pool table No.1 might become available, any interest?), and build a student center and dormitory (one essential portion identified as the Harries Tower) to house 1,000 students! This will be a major undertaking over the next three or four years.

We finished with the excellent dinner and proceeded with a Class of 1958 60th reunion photo, which should be available upon request to those not attending. Similarly, I prepared two booklets, mostly paste-ups, as handouts: one an "In Memoriam" identifying the 18 classmates who have passed on since our 50th reunion, bringing the total to 57. The second is a mix of class statistics, financial matters, scholarship information and a summary of our five mini-reunions, with lots of photos, based on the write-ups from *The Indicator* class logs. One final note — your reunion committee decided, to my surprise, to give me a vote of confidence and awarded me with a beautiful inscribed plaque for my service to both the committee and as class secretary, in serving as scribe for *The Indicator* class log.

All I can say is that I am deeply grateful! But, as I indicated at the dinner, unless my fellow classmates start sending me some input on their activities or non-activities, it will be Creative Writing 101 or, worse, more about the Bonners and other reunion committee members (remember spouses can also contribute — perhaps more interestingly — so text me at 732-890-5940, or the usual phone, email, etc.).

Bonners' travels: We are off to Vermont for two weeks in mid-August, part of which is an Elderhostel/Road Scholar education for seniors course, followed by a European trip in mid-October to Milan, the Swiss Alps, a cruise down the Rhine and winding up in Amsterdam for a few days. We can't say the theme of our 50th "We're

20, we're 20, who says we are more?"...but as Dylan Thomas put it, we are trying not to go "gentle into that good night."

And thanks to all for a wonderful 60th reunion!! I think I well exceeded my 800 words — more next issue. There should be a number of our photos throughout this and the next *Indicator*. — **Michael F. Bonner, 329 Sylvania Ave., Avon by the Sea, NJ 07717-1242; mfbonner@optonline.net**

Alumni Weekend reunion, 5/31/19 – 6/2/19

'59 June 2018 — Believe it or not, it is almost 60 years since we graduated from Stevens, and **Leo Collins** and **Tony Arturi**, our venerable instigators, are already planning a Class of '59 reunion in 2019. Here is Tony's recent email:

"Hi George, how are things? From your recent class logs, I see you are busier than ever, and that is good. I am retired and I have nothing to do, which is perfect for me, since I seem to have no time to do anything anyway. Ah, the joys of a directionless life!

"But now, I have a direction. You know, 2019 marks 60 (60!) years since our graduation from Stevens and traditionally, anniversary classes mark the occasion with class reunion activities on Alumni Weekend. I, for one, enjoy reunions. And since I don't owe anyone money, I can greet my fellow classmates with a smile and be genuinely glad to see them. It is always a great time. I'm sure you agree, since you are always there too.

"I asked Leo Collins to be the fund captain and to lead the effort to plan the weekend's activities for our class. He is taking to the task like an Olympic sprinter, and one of his first acts as chairman was to give me an assignment. Hence, this letter.

"Recognizing that your *Indicator* log is a reliable and effective communication channel to our classmates, we want to be sure to use it, and the way to do that is to ask you to include, as you deem appropriate, informative items regarding planned activities, names of those planning to attend and other stuff that Leo and I will provide. Also, considering that most of us will be octogenarians in 2019 (can you believe it?) there are bound to be suggestions and requests from our classmates regarding accommodations and other requirements that individuals might have to consider should they wish to make the trip. Or, just some catching-up notes, like those included

at the bottom of this email.

"Also, the reunion committee right now is short-handed, and volunteers are needed if we are to have a memorable reunion.

"Thank you, George. You'll be hearing from us regularly during the coming year and with a little bit of luck, we should have a great reunion. Tony Arturi."

A recent exchange of emails between **Dick Clement** and **Leo Collins** follows:

"Hi Brother Leo, can't be 60 years!! What have we done? Where have we been? What were our plans for life? Did we succeed, I hope!! I know I got a great tech kickstart in engineering, Delta Tau Delta fraternity gave me the basis of my success in leadership roles in my life. ROTC (which helped greatly pay for my education) led to a full military career including 4,000 or so pilot hours started as a hurricane hunter. (I brought them all back safely with only two not being used again. Those two were delivered to the boneyard and cut up for beer cans. Worst two flights, as my DNA was the last of a long list of pilots who flew the birds.) Civilian life included several jobs, including RCA. Somehow, a driving need that moved to the top were the hobbies of antique cars (currently I only have three) and antique toy trains (whereas I have published many articles and rose to be president of the Train Collectors Association). I work on, build and maintain stuff in both hobbies, so V=IR is helpful. I have five kids, and Sandy and I now have retired in Fairfax, Virginia (outside DC). Come visit.

"I have no idea what most of our other classmates accomplished. Ours was a class of very bright men. (I had to paddle very hard to pass!) Please add me to your communications email list. Fraternally, Clem Clement."

Clem (Dick Richard!!!!)

From Leo: "It is great to hear from you and very pleased to see you having great success and enjoyment in your post-Air Force career, in many interesting areas. Also wish you well in Fairfax — love that area, having spent many years in northern Virginia and Washington.

"Your email is most timely, as we are starting the planning for our 60th and have made some preliminary arrangements, which we will announce to the class shortly. We are thinking of a dinner on the Friday of Alumni Weekend, May 31, perhaps in the Williams Library, then lunch on the lawn and dinner on the Saturday. (Nap time plans will also be included!!) Our 60th is indeed a wonderful milestone — time to reflect — and

should yield a lot of interesting stories from the '59ers.

"Am still very active at Stevens; this week I marched in the Commencement. Stevens has made remarkable strides in recent years under the new leadership, with spectacular success. My involvement also includes a look at the current Delt house, which is in need of some major repairs. I also am active in alumni affairs including playing a role in the rewrite of the Stevens Alumni Association Constitution.

"I would hope you and Sandy can make it up here for the 60th; our objective is to make it a most memorable and special weekend. I am here with Camille in a townhouse in Bergen County, New Jersey. Camille retired this past year and closed the medical practice she was involved with for over 50 years. I am still doing a bit of technology consulting after many years in the aerospace industry that took me all over the world. I talk or see some of our peers and saw Roedema last year, when we exchanged war stories.

"If I may, Clem, would you allow me to share your email with our class president and have it put in *The Indicator*? It would help us garner interest in our 60th. Thanks. Again, absolutely great to hear from you. Stay well. My best regards, Leo."

Folks, this 60th reunion is really a "command performance" (we may not have too many more), so if you are ambulatory (canes and walkers are allowed), let's make it a great one!

Lastly, I would like to share a great letter I just received from John "Slaty" Slattery, but I think this column is already over length, so I'll save it for next time. — **George C. Pezold, 120 Main St., Huntington, NY 11743, (631) 271-8817; george.pezold@transportlaw.com**

'60 June 2018 — The Class of 1960 did itself proud by inducting Stevens President Nariman

Farvardin as an honorary member of the Class of 1960. **Bill Baumann** presented Farvardin with an Old Guard pin at the Spring Old Guard Luncheon held on Thursday, April 26, 2018.

Present at the Old Guard Luncheon were **Mike Danon, John Dalton, Tom Muldowney, Steve Guzy, Bill Baumann, George Washburn, Joe Kaminski, Veikko Laakso** and **Tom Wynne**. Our classmates looked in good shape, as you can see in the picture that accompanies this class log. I was very impressed with this group of octogenarians (except Farvardin) who looked at least 15 years younger.

Talk about looking good for your age.

From my email I received the following from **Doc Ardrey** and his wife Marylou.

"Don and Rosemarie, hope all is well with you two. Just read the latest *Indicator*, which reminded me to let you know where we're reachable. We live in Summerville, South Carolina, just outside the lovely, happening city of Charleston. We love the climate, proximity to water sports and cultural life, but do miss Broadway and the Jersey Shore boardwalks. Don't tell the Witness Protection Program.

"Today starts Spoleto USA, a world-class 17-day festival of music, theater and dance from classical to hip-hop. I usually usher about ten events, and Marylou and I attend another four or five. It's one of the main reasons we moved here. And then there's the fine dining scene. Don't get me started.

"Good pizza is hard to come by down here. Best advice we've gotten has been to drive 40 miles west to Route 90, turn right and go north 600 miles. We've gotten pretty involved in voter registration of students, which is rewarding while

giving us a window into pop culture. Apparently, today's kids are born with cellphones attached to their ears and super dexterous thumbs. Mare has been on a state champ mixed-doubles tennis team for several years. I was on the team as well, but not during any of the championship years. I still write edgy short stories and poems, one of which just got honorable mention in a respected competition that drew more than 1,000 entries.

"Last week, on a layover in Chicago returning from Holland, we got a good dose of reality. The desk clerk excused herself from a phone call by saying, 'Excuse me. I have to take care of this elderly couple.' Maybe I should look at the mirror more often.

"We keep in touch with **Dave** and **Barbara Teschner** as well as **Art Bendelius** and **John dePillis** from my original class ('58). One benefit of repeating my junior year is that I have more classmates than most. Even have two yearbooks on my shelf.

"Attached is a shot of us in a downtown hotel patio. Best regards. Thanks for all you do. **Doc and Marylou.**"

One of the least favorable duties of being the 1960 class secretary is having to announce the death of our classmates. Stevens helps in providing obits but that does not cover the depth of classmates' remembrances. For this log I have been notified that **John Mazzilli** and **Don Peacock** passed on. Their obits appear at the end of this log. Unfortunately, I already submitted our summer class log and do not have space for a more detailed remembrance. I would urge those who knew John and Don to send me your remembrances for our next class log. I always welcome your emails. — **Don Merino, dmerino@stevens.edu**

John M. Mazzilli

John M. Mazzilli, 85, of Columbus, New Jersey, a Westinghouse engineer, died on May 23, 2018.

He was an industrial engineer with the Westinghouse Company in Randolph, New Jersey. He was a member of the Vernon Ski Club and often skied at Sugarbush and Killington, in Vermont, where he went by the nickname "Moose."

Mazzilli is survived by his wife of 41 years, Marilyn; a brother, Joseph; and his nieces and nephews.

Donald R. Peacock

Donald R. Peacock, 79, of Tolland, Connecti-



President Nariman Farvardin, back row, third from left, was made an honorary member of the Class of 1960 at the spring Old Guard Luncheon. Pictured, front row from left, are Class of '60 members Mike Danon, John Dalton, Tom Muldowney and Steve Guzy. Back row, from left, are Bill Baumann, George Washburn, President Farvardin, Joe Kaminski, Veikko Laakso and Tom Wynne.



Marylou and Doc Ardrey '60 check in from South Carolina; read more in the '60 log.

cut, a longtime Hamilton Sundstrand engineer, died on May 14, 2018.

Prior to his retirement, he was an electronics engineer at Hamilton Standard for many years. He was a member of the First Congregational Church of Vernon and had served on the board of deacons.

He is survived by his wife, Janice; two daughters, Donna and Cynthia; a stepdaughter, Dana Dobbs; a stepson, Steven Morin; a brother, Paul of New Jersey; and several step-grandchildren, nieces and nephews. He was predeceased by his first wife, W. Sheryl (Bennett) Peacock.

'61 June 2018 — Greetings, '61ers. I'm writing this log in Dallas shortly after the 2018 Alumni Weekend occurred. Unfortunately, family events and personal health issues kept me in Dallas. Can't wait to escape the heat here and get to Rochester.

Starting off with Gary Fitton's missive, which couldn't be included in the last issue.

"The oldest of my grandsons is starting to do the college visit bit, so my son Steve, grandson Stephen and I went up for the Jan. 27 visit day. I must say that we were all less than impressed by the welcoming presentation speaker and the tour afterwards. (I would guess that there were well over 100 parents and prospective students in attendance.) Now the tour guide was excellent, a very knowledgeable, dynamic, and vivacious young woman. Unfortunately, I had briefed my son and grandson on all the neat stuff they would see in the labs, etc., but the only lab we saw was in the chemistry building; everything else was closed. Maybe because it was a Saturday, but I would think the key thing you would want to show is the nitty-gritty of engineering. The tour went through the library, gym, chemistry building, the lobby of the Babbio Center, and

Humphreys dorm.

"At the end of the tour, the various departments had representatives and they were able to answer some of my grandson's questions. Oh yes, Washington Street was in worse condition than I ever remember, I had to drive my Explorer dead slow all the way to Ninth Street to keep from shaking it apart. I think Hoboken has been pretty well beat up by flooding and water main breaks and the roads show it.

"And guess what else? In the back corner of the library is another replica of the John Stevens locomotive I saw in a visit to the Railroad Museum of Pennsylvania, in Strasburg! Now I have walked past the library and been in the library dozens of times over the years, and never noticed it. My keen powers of observation sometimes amaze me..." (*Editor's Note: Gary did not overlook this locomotive in the past, as it was donated to Stevens just several years ago by John Hovey '58.*)

"The attached photo is of one of my grandsons and I during a visit to the Railroad Museum of Pennsylvania, in Strasburg. This is a replica of the John Stevens, a pioneering RR locomotive, built by Col. John Stevens. This replica was built by the PRR for the 1939 World's Fair. We all know that Col. John Stevens III was the father of our founder, Edwin A. Stevens. (I didn't, until I saw the excellent video that John Dalton '60 did on Stevens history...)

"I found this bit of Hoboken nostalgia in my RCA Astro files. You can see Maxwell House, United States Lines, one of the ferries, Lincoln Tunnel ramps, etc.

"This was taken from the top of the student center/Howe Center about 1968. I was not present, but RCA Astro in Hightstown had a connection, I guess, and got permission to set up on the roof. The dielectric tape camera was being developed for spacecraft use and they shot some show-and-tell scenes in various places. It was intended as a combination image capture and storage media for transmission to a ground station (state-of-the-art at the time was a separate camera and magnetic tape recorder) but was never flown."

Vincent Muehter emerged from relative obscurity since '61 and made his presence known through the following material: "After all these years, I finally am getting around to submitting a few words.

"I spent the years after Stevens getting a master's in electrical engineering from NJIT in 1970 and a P.E. in 1973.

"Worked 10-plus years at Bendix Flight Systems designing military and domestic aircraft guidance systems; e.g., DC10, Navy S3A, T39 trainer, B52. Then 26 years at Bell Labs and Lucent developing software for early digital PBXs, then managing software and hardware development groups doing design and development of mobile cellular systems in Holmdel and then closer to home in Whippany, New Jersey.

"Starting at Bell Labs in 1975 was like joining a high-tech university lab — no more card decks, everyone with a terminal tied to a server down the hall, all already using email internally and technical lectures in the auditorium on Friday afternoons (that was before the breakup of AT&T).

"I retired in 2001 and have never been bored since, as I traveled to a lot of Europe and to Egypt, with camping in the Adirondacks and sailing and power boating. Since Janet and I married in 1963, we have three kids and seven grandkids. All, except one in California, live within 15 miles of us, and that's great. Attached is a photo of my wife Janet and me taken at her 75th birthday party last week.

"We have both been retired since our early 60s and after traveling a lot for the last 20-plus years, we spend a lot of time with all the kids. Our oldest is Vincent, age 52, graduated from Queens University, Ontario, with a master's in biology (with a fellowship) and has been at WebMD's Medscape for the last seven years and currently is vice president of strategic sales. He is about to move into his newly completed 5,200-square-foot home in Chatham Township, New Jersey. He and wife Tanya have a 5-year-old and 9-year-old girl and boy, respectively.

"Next is Pamela, 49; she has a master's in special education and works in the Livingston school system as a special education counselor. She and her husband live in Parsippany, New Jersey, and have a 25-year-old son, who's a computer engineer in California; a 22-year-old son in his senior



Vincent Muehter '61, seen with his wife Janet, writes in for the first time since graduation; see the '61 log.



Gary Fitton '61 visited Castle Point with his grandson Stephen on a college tour earlier this year.

year at University of Arizona, taking biomedical engineering; and a 15-year-old daughter.

"Finally, there is Kristen, age 39, with a B.S. in psychology. She and her husband live in Caldwell, New Jersey, and have a son, 15, and a daughter, 12. She manages a health club.

"I've kept busy on big and small projects on our house over the 50 years in Towaco, New Jersey, and help the kids on theirs and still have time for a few hobbies like practicing fiddle, model railroading, working on the cars and walking a lot, weather permitting.

"Thank goodness for great folks like you who dependably maintain class logs like you have been doing. Thanks, I enjoy reading them in every issue."

Keep the emails and photos coming, guys.

— Jay Wartell, letraw@yahoo.com

'62 June 27, 2018 — This year was our 56th reunion and on June 2, Dennis Blahut, Vince Citarella, Frank and Pat Derato, Dick and Carol Sard and I took in and enjoyed many of the activities on campus over the weekend.

While conversing with Vince Citarella, following President Farvardin's State of Stevens presentation, I learned that he was celebrating two reunions, the second of which was the Stevens Latin American Club, about which he wrote: "During our senior year, a small group of students from Latin America and I formed the Stevens Latin American Club. To my surprise, a group of Stevens Latin American alumni that had stayed in touch after graduation initiated reunions every few years and have held a few in Miami and Madrid since about 2007. In 2012, I was invited to join them at the reunion held in Miami. The following is an excerpt from the write-up we submitted to *The Indicator* that fall: 'Stevens has a long history of attracting students

from Spanish-speaking countries. In November 1961, a group of Spanish-speaking students enrolled at Stevens established the Stevens Latin American Club. The purposes of the club were to stimulate the exchange of ideas between the Latin American students and the rest of the student body, and to help familiarize incoming students with Stevens life. A group of Stevens alumni from Latin America has stayed in touch over these years and five years ago held their first reunion (they call it Reunion de la Cumbre). Last August, they got together again. This time they took the occasion to celebrate the 50th anniversary of the establishment of the club. The reunion was held in Miami and was attended by alumni who originally came from various Latin American countries including Peru, Colombia, Venezuela, Costa Rica, Ecuador, Cuba and Puerto Rico. Most of them, including those living in the U.S., travelled thousands of miles to attend. Plans for the next reunion are already under way.'

"So this year, it was decided to have the reunion at Stevens coinciding with Alumni Weekend, and that is how that reunion came about. We had over 20 people from various classes attending. The celebration included a dinner boat cruise Thursday night (like what we had for our 50th reunion) and a campus tour and dinner at Stevens on Friday. Everyone had a great time and there's already talk of the next 'reunion' in 2020 in Lima, Peru!"

I also just heard from Al Pearson who, in a fit of guilt, penned the following: "Over a year has passed since I regretfully missed last year's 55th class reunion, so I guess I'm overdue to explain my absence. In short, I heard the call of my bucket list and booked a reservation for a Grand Canyon white water rafting trip. In booking 18 months in advance, I missed the obvious conflict with our reunion. Sorry about that.

"So on Memorial Day 2017, a buddy and I embarked on an eight-day trip down the Colorado River along with 14 other adventurers, all of whom were at least 15 years our junior. The journey began with a 9.7-mile hike down the Bright Angel Trail from the Canyon's South Rim to the awaiting rafts beached near the Phantom Ranch, with an elevation drop of over 4,300 feet.

"We kicked off at about 4 a.m. at a comfortable temperature of 65 degrees. It would turn out to be over 95 degrees riverside early that afternoon. Unfortunately, in spite of lots of rest stops and frequent hydrating, the heat took its toll and my buddy John was forced to turn around and

head back at the 4.6-mile mark. While the hiking guide accompanied him back to the rim, I continued, in the company of the river guide, down to the river where we arrived at about 1 p.m. After a brief rest and a change into river gear, we were off to the races. In the meantime, John recovered quickly from his exhaustion and dehydration and flew back to New Jersey under his own power.

"Our group consisted of six rafts, each with a rower/guide. Four of the rafts carried the passengers (now only 15) and the remaining two hauled the equipment and eight days of food and drink. We negotiated 19 major rapids rated 5 or above on a scale of 1-10, for a total distance of 99 miles. Thankfully, none of the rafts capsized during the trip. Our last rapid was called Lava Falls, rated at 8-10, dependent upon water releases from the upstream dam. It was truly an exciting finish followed by a helicopter lift out of the canyon. The river water temp, by the way, was a constant 55 degrees.

"The magnificent scenery was obviously a highlight of the trip, including the views during the single-engine plane ride from Las Vegas to the South Rim over the Colorado River. Daily hikes up the side canyons were fascinating and a frequent challenge to my discomfort with heights. Three meals a day on the river beaches were excellent, including filet mignon the first evening. And switching rafts and boat companions afforded opportunities to meet really interesting and fun-loving people. And collectively, they took real good care of this appreciative old fogey."

I offer my thanks to Vince and Al for their contributions to the class log. Here's wishing all an enjoyable summer. I know I will be sailing most of the time, but also hunkering down for some summer reading after the yard work is done. First on my list is classmate Carl Mitchell's novel, *Sundown*. — Phil Kimball, pbkim25@gmail.com

'63 June 2018 — We had a very enjoyable 55th Anniversary Alumni Weekend. Carol and I joined Richard Benner, Dave Bondon, Bruce Boylan, Larry Carter, John Cienki, Chris Coccio, Art Dresner, Joe Grauman, Harry Hajinlian, Dick Magee, Pete Manahan, Norm Morrow, Tom Moschello, John Mountford, Roy Olsen, Charlie Perruzzi, Joe Polyniak, Tony Santos, Hal Schorr, Rich Stomber, Bob Thierfelder, Ron Venturi and Jerry Adler in the weekend's celebrations. Many of the attendees had wives and significant others



The late Jules Nagy '63 was on everyone's mind during the Class of '63 reunion this spring, and his classmates honored his memory with a tribute sent to his family. Pictured, from left, are Dick Magee '63, President Nariman Farvardin and Joe Polyniak '63.

with them, but I have to admit that I didn't do a good job of keeping track.

One sad note is that, after many years of pushing us to contribute to the Class of '63 Scholarship Fund, **Jules Nagy** has passed away. Recognizing his exceptional efforts at the Friday dinner, Dr. Farvardin and our class officers signed a special tribute to Jules that was sent to his wife and son.

That Friday night dinner was packed while the Saturday dinner dance was highlighted by Tom Moschello receiving the **Stevens Alumni Award**. (Tom's dedication and accomplishments are impressive, however his "two-minute acceptance speech" proved that, despite his academic credentials, he still has trouble counting.)

We stayed at the Sheraton in Weehawken on the site of the old dry docks. (The Hudson Tea Company condos are across a small bay from the hotel and are the reincarnation of the Maxwell House plant.) One of the nice parts of staying there was that we shared transportation with John and Stephanie Cienki, and John made my job easy with the following note.

"Well, Nev, it has taken me 55 years to write something substantial for *The Indicator*. I spent the first half of my professional career as an engineer and the second half working on Wall Street for Shearson Lehman Bros. and Merrill Lynch, enjoying both greatly. I also spent 2.5 years in the World Trade Center on the 105th floor of the South Tower for one of my jobs. My entire working career was spent within the confines of New York City, other than my last stay in Piscataway, New Jersey, for Merrill Lynch. I retired at

the end of the last century, and have basically been loafing since. So many of our classmates have continued to conquer new and exciting worlds, forgoing the mandatory ravages of aging. I, on the other hand, have apparently used up my 'conquering spirit's' lifetime allocation and have settled into enjoying traveling and generally keeping busy around my home base.

"My wife Stephanie (we're married 30 years this fall) and I moved to the West Coast and have lived on Whidbey Island, Washington, for the last 12 years. Yes, it was quite a change moving from the New York City and Montclair, New Jersey, area, but in our opinion was for the better. I'm a 'big city' boy (65 years of it) turned low-key, country environ lover. I've had some senior setbacks like prostate cancer, out five years last fall, a nasty pulmonary embolism that knocked me down for a good spell, and the too frequently common wearing out of my knees. Other than that, I can't really complain. We have three children, six 'wonderful' grandchildren living in Spain (2), Florida (2), Washington (1), New York City (1), and one new great-grandson in New York City. We have to work hard to keep in touch with them all, except the one in Washington, that's easy.

"As I mentioned, we travel a good deal and took six trips last year, and five so far this year, with trips planned to Ireland and Spain this fall. My wife's family roots have cattle ranching in their bloodlines, and we have spent a lot of time visiting family in the California Central Valley and rubbing elbows with ranchers and cowboys. As a result, I have developed a sincere appreciation of the life and culture. In turn, I have taken to rodeo, and we have attended quite a few. Last year, we attended Cheyenne Frontier Days in Wyoming. The year before, we went to the Pendleton Roundup in Oregon, and three years ago, we attended the Calgary Stampede in Alberta, Canada. Besides this, we annually attend smaller local rodeos in California and Washington states. It has really become a fun hobby for me.

"As another involvement, our good friends in Coupeville, Washington, got us interested in genealogy to where we attend monthly meetings and annually go to Salt Lake City, Utah, for a week, to do personal family research at the excellent Church of Latter-Day Saints library facility. Last year was our eleventh trip. We always go with a local group of approximately 12 and enjoy group dinners out every night, while discussing the day's highlights. Well, that's my short story in a nutshell. Keep up the

As an engineer, volunteering at Stevens provided an intrinsic reward in that it allowed me to build for the future. By dedicating time, talent and treasure, I was able to build Stevens-educated engineers who would make our world better. —Enrique Blanco '72 M.S. '76 (2005–2007)

good work. My best wishes to all '63ers. Enjoyed seeing you at our 55th reunion and sharing a taxi."

I hope to see some of you, and visit with a granddaughter who will be a junior at Stevens, at the fall Old Guard Luncheon. Nev - **Neville W. Sachs**, newsachseng@gmail.com

Julius J. Nagy

Julius (Jules) J. Nagy of Montville, New Jersey, a longtime Hoffman La Roche engineer who was strongly devoted to his alma mater and to his community, died on April 4, 2018. He was 76.

Nagy was a packaging engineer with Hoffman La Roche for 38 years and earned a patent for a medicament packaging device.

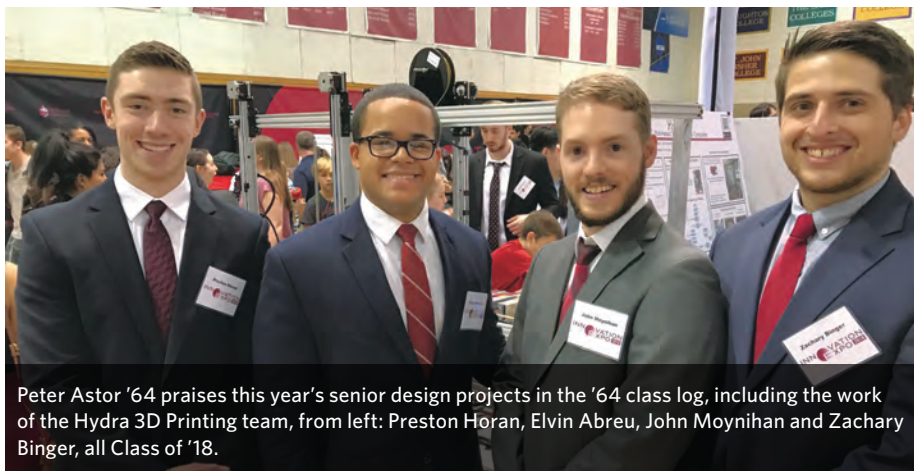
At Stevens, he was a longtime, hard-working class co-captain for the university's annual fund drive and a devoted member of the Class of '63, attending and volunteering his time toward many alumni events.

He was also very active with his church, St. Peter and Paul's Polish National Catholic Church, Passaic, New Jersey, and served on his Parish Committee for 35 years, including as chairman. He also held other leadership roles within the church, advised the parish boys' youth group and coached the parish's track and field team.

Surviving are his wife, Carol; his son, Christopher and his wife, Leslie; and three grandsons.

Alumni Weekend reunion, 5/31/19 – 6/2/19

'64 June 2018 — Class President **Peter Astor** writes: "If you ever want to see if Stevens is preparing its students to meet the current work environment, all you have to do is attend the annual Innovation Expo. Last May, student teams from the Class of 2018 presented their senior design projects from all four schools (Schaefer School of Engineering & Science, School of Business, School of Systems & Enterprises and the College of Arts and Letters) in an exhibition-type format



Peter Astor '64 praises this year's senior design projects in the '64 class log, including the work of the Hydra 3D Printing team, from left: Preston Horan, Elvin Abreu, John Moynihan and Zachary Binger, all Class of '18.

in six buildings throughout the campus. Projects included the new SAE team that built and raced at the rugged Baja course. They placed in the middle of the pack overall, but excelled in the endurance portion of the race. Serious biomedical projects I reviewed included devices for neonatal care, brain surgery for implanting controllers or sensors and an electronic stimulus to eliminate drop foot following a stroke. Transportation projects included a means to keep from dozing off while driving and a 3D panoramic mirror for bicycle safety. There were data-intensive projects to improve investing, educating children and managing nonprofits. Projects to lower costs on a wide variety of issues included producing Kevlar vests, handling storm water runoff, energy usage, etc. Many projects were too technical for me to understand. But I was impressed. What's more, the students looked and sounded professional as they passionately explained the purposes and intricacies of their projects."

From **Mike Lentini**: "I retired early in 2001 as the Boeing R&D support executive for all airplane programs. I went back to Boeing Research and Technology on contract on two occasions to help out with some key programs and, most recently, as a consultant to their automation group. Until recently I dabbled in developing websites and in network security. Today, I am completely retired and enjoy driving my Viper, hiking, photography, astronomy (have several telescopes), exploring the micro world with my digital microscope and, of course, watching my four grandchildren develop into teenagers and adults.

"I was also the aerospace advisor to Stanford University's Alliance for Innovative Medicines (AIM) program, on the MIT LFM section team, enterprise operations leader for college rela-

tions, spent a year as the director of corporate engineering standards (found that too boring), helped set up the Boeing Tech Excellence program, helped evaluate Boeing patents (I actually got one, before I was an evaluator), and some stuff that I have forgotten.

"One reason I retired early was I was traveling too much — and had I not decided to fly home from Newark (Flight 93) on a 777 on 9/11, I would have been on the flight that crashed in Pennsylvania. Now I was trained on a 767 in the Boeing simulators, so I may have been able to land the plane safely, but we don't know what would have happened. This haunts me almost every day."

From **Ralph Heres**: "My wife Catherine and I live in Seaville, New Jersey, which for you Jersey people, is about one mile from Exit 20. (Non-Jerseyites would not understand that). I am retired, of course, having worked 27 years for the Nestlé Company. I served in several plants as the plant engineer and finished up as the director of Chocolate Engineering. Before Nestlé, I worked two years for a papermaking division of Johnson & Johnson and three years for United States Gypsum Co.

"I spend my time fishing, reading, whittling and, of course, playing with my eight grandchildren. I agree with the guy who said that if he knew how much fun grandchildren were, he would have had them first.

"I do still have my dink and name tag. In fact, I tried it on for my wife the other day. I still look ridiculous in it. I remember during the first week of pledging, I was asked: 'How many bricks did it take to finish the Navy Building?' Answer: one.

"I do, in fact, have my slip stick and the instruction manual. I can't lie and tell you I still

know how to use most of the functions.

"An interesting side bar: In my career, I had to explain to some of my junior engineers how a slide rule worked, and more interestingly, why blue prints aren't blue."

When I asked Ralph what the director of Chocolate Engineering did (seemed to be an ideal job):

"Nestlé USA manufactured many products: instant coffee and tea, chocolate, yogurt, ice cream etc., originally all in one division. I was hired on as an assistant plant engineer and progressed through the ranks as plant engineer in several factories manufacturing Nescafé, Taster's Choice and all chocolate products including Nestlé Crunch, Quick, chocolate chips, 100 Grand, hot cocoa mix, plus things like ice tea mix, instant soup and cookie dough. (Chocolate plants had the sugar systems and/or the packaging equipment).

"Eventually, I was transferred to our corporate office and wound up director of engineering of the whole company, about nine plants as I remember. When the company divisionalized, I became the director of Chocolate Engineering.

"As such, I was directly responsible for all the capital improvements in the division from project development through startup. I was also indirectly responsible for the maintenance of these plants. The plant engineers reported to the plant managers, not me. In theory, they could tell me to go to hell, but it would have been a bad career move. They usually took care of the maintenance items taking a year or less to fix. My guys did the long term and specialty stuff like roof replacements, etc. We set division-wide standards on PCs, equipment manufacturers, wiring, etc. So engineers could go from plant to plant and not have to be retrained. I was expected to watch over the quality of work the plant guys did and got involved with their career development. We were the engineers who built chocolate manufacturing equipment from the beans to the candy bars. Nestlé is a Swiss company, so there was a lot of interaction with the Swiss engineers including travel to Switzerland. In addition, most of the chocolate manufacturing equipment is only made in Germany, Switzerland, Italy and Denmark. When we made big purchases, travel to those companies in Europe was required. I was also involved in the purchase of other companies."

The Class of '64 55th reunion committee requests volunteers to help plan our reunion. We

would like to get at least one person from each fraternity, special interest group (*The Stute*, Stevens Dramatic Society, radio, etc.), or geographic region (FL, TX, CA, etc.) to join us. If you can assist us, call Stacy White, Director of Alumni Engagement, (201) 216-3347 for further information. Your assistance in this effort is greatly appreciated. —Harley G. Graime, hgraime@att.net

'65 July 5, 2018 — I write this on a sweltering 5 July. But most of the U.S.A. and the world are seeing hot weather this week. This is a brief class log as I received a message from Beth Kissinger reminding me of a deadline of today. I must have not received an email when I was north of Norway.

John Thielke wrote, "Karen and I returned in early May from a three-week trip to Portugal, Spain, and our ultimate destination of Morocco. One of our nephews and his new wife were celebrating their wedding in a Moroccan ceremony, and this was an ideal excuse to make this trip. We enjoyed every stop along the way and it was fun to practice the Portuguese that we had learned during our three-year Peace Corps assignment over 40 years ago. Needless to say, we were a little rusty with the language, but we could blame our Brazilian dialect on any misun-

derstandings. The highlight of our trip was to attend the wedding celebration in the Moroccan port city of Safi. It is impossible to describe all the sights and sounds at the wedding, only to say that the celebration began about 8 p.m., dinner was served about 1:30 a.m., and we finally got into the van to go back to our hotel around 5 a.m. The next day was like experiencing jet-lag without ever getting on an airplane. I can recommend Portugal, Spain and Morocco as excellent places to visit and enjoy the local cuisine and wine (Portugal and Spain)."

Les Zenack wrote, "I am contacting you from my hospital room. I have been here since Patriots Day, April 16, and I am scheduled to go to a rehab hospital Tuesday, 29 September 2018. Still a lot of healing to go after jawbone reconstruction and various complications after oral cancer surgery last September. Anyway, I expect to be in good shape by June 2020, and I would love to see you and others at the 150th Celebrations at Stevens." I am sure classmates wish him a smooth recovery.

Jim Kiel and Frank Semcer attended their grandchildren's graduation from Bernards High School in New Jersey. Alex Keil is heading to Lehigh and Frank and Mary Jane's Oliver to Stevens and Frank III to Lynn University. It was an exciting evening for all the grandparents. Frank

The opportunity to be SAA president led me to the opportunity to expand and change my career. After serving as SAA president, I was asked to be the university's vice president for Development. Through these two opportunities, I was able to meet many alumni all across the U.S. and share the good news of Stevens. — Ed Eichhorn '69 (2007-2009)

also has two granddaughters going to Northeastern in September. How does he keep track of the grandchildren? Either a spreadsheet or Mary Jane reminds him?

Margaret and I went on a 10-day trip in a 135-foot converted fishing schooner in and around fjords on the west coast of Svalbard, well north of Norway. Only 32 passengers, but we all mixed very well during the trip, with 16 landings by Zodiac over the eight days on the water. Lovely scenery and a mixture of wildlife. Not as much wildlife as in the Antarctic Peninsula trip in 2015, but we did see two polar bears — from a distance. We ended the holiday with seven days in London when friends came to visit us and walk through parks rather than us driving around the

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country to see them. It worked out very well.

That is all for now but I hope to see you **ALL** at Stevens in June 2020. — **George Greene**, gwgreene43@hotmail.com

'67 June 2018 — **Richard Stanley** reports that he continues his membership in the Stevens Latin American Club (SLAC), beginning his membership when he was an undergraduate. At this year's Alumni Weekend, there was a summit meeting of SLAC. This was the sixth summit meeting over the last ten years. Previous summit meetings have been in Peru, Spain and Miami. The club proudly points to Richard, the only non-Latin member of the club, referring to him as "gringo Riccardo" and affirming the club's outreach to and inclusiveness of the Stevens community.

Richard writes, "I am currently retired. After my graduation from Stevens in 1967, I worked for Westinghouse Electric in industrial sales in Manhattan. I returned to Stevens for a master's in computer science, Class of '84. I became involved in many entrepreneurial ventures in real estate and stock market investments. I reside in Moorestown, New Jersey, with my wife of 48 years. We have four children (two lawyers, a physician, an accountant and, sadly, none of whom went to Stevens) and six grandchildren. My wife and I enjoy spending time with the children and grandchildren as well as traveling. We recently returned from a South African safari and a visit to several South American countries. We plan to visit Australia and make a return trip to Asia next February."

Alex Kiczek writes with enough information for three logs. Here's an edited version. "Our parish has asked my wife Carol and me to 'run' four

Friday Fish Fries with about 100-plus guests per, time. We go from here in Kansas City, Michigan, to New Jersey about three times a year. We usually take Amtrak, a VERY relaxed way to travel. We take the sleeper car! We have six grandkids to visit when we go.

"Carol and I continue to be engineer/conductor(s) for Kansas City's North Miniature Railroad (75 cents a ride). Our real trip was to Eastern Europe in 2017, where we visited Prague, Cesky Krumlov, Vienna, Melk Abbey (Austria), Budapest, Visegrad, Szendrei. Highlights in Prague included Hradeany Castle and St. Vitus Cathedral and a trip to a 500-year-old brewery that uses the same brewing process used of old. We got to see The Infant of Prague on our own and crossed the beautiful St. Charles Bridge. Before we left Czech Republic we stopped at Cesky Krumlov, a quaint village where we ate a kielbasa lunch. In Vienna, we took a night bus tour to see the city all lit up. We visited the Schönbrunn Palace, which was modelled after Versailles. Maria Therese, the one and only empress of the Austria-Hungary Empire, was the prime subject. She was definitely a lover, having 16 children and nursing them all. The pedestrian malls in Vienna are spectacularly lit with outdoor chandeliers hanging down in the middle of the walkways. We asked our tour manager if this was for Christmas — no, it is all year long! Next was the brilliantly lit up capital of Hungary, Budapest. This city is known as the Paris of the East, a city of lights and beautiful bridges. We visited the coronation church, St. Mathias and Heroes Square built in 1904 to celebrate 1,000 years of Hungary as a nation."

As for your class secretary, in three days, I leave for two weeks in Estonia and a week in Brussels where I am giving several lectures on

the history of chemistry and responsible conduct of research. And listening to tons of other lectures!

Be well, all. — **Jeffrey Seeman**, jiseeman@yahoo.com

'68 This is the "Post-Alumni Weekend" log, including our 50th anniversary celebration. I was pleasantly surprised to have 43 of our classmates show up for the Friday class dinner. My only disappointment was not having sufficient time to get around and visit with all of them. There was a class log book published which included, besides some memorable events during our tenure at Tech, a bio of 33 of our classmates including what they have been doing for the last 50 years. These log books may be "fodder" for future class logs of mine. You would be surprised what some of your classmates have been up to since graduation!

I have two contributors who were at the class dinner. **Art Schmidt** wrote, "I started graduate school at Stevens in the fall of 1968, but was drafted in November 1968 and reported for induction in the Army in February 1969. I completed infantry training at Fort Dix, New Jersey. As part of the U.S. Army build-up after the USS Pueblo ship was captured, I received orders to report to the Seventh Infantry Division in Korea at Camp Casey about halfway between Seoul and the DMZ. My assignment was in the Personnel Services Division in part due to graduating from college and being able to type. I completed 13½ months in Korea and returned to the states in Seattle, Washington, to be processed out of active service in September 1970.

"In 1971, I started at New Jersey Bell Telephone Company as an outside plant engineer for



1 The Class of '68 marked its 50th reunion this past Alumni Weekend, with a fine turnout. Look for highlights and other updates in the '68 log. **2** Al Foytlin '68, left, and Andre Jackson '68 resurrected their dinks for the weekend.



More scenes from the Class of '68's 50th reunion this past spring. At above left is Nick Niccolini.



John Moskalski

John Moskalski of Pequannock, New Jersey, a Vietnam veteran who was awarded the Purple Heart, died on Feb. 13, 2018. He was 71.

Moskalski worked in computer technology and was an aspiring inventor and oil tycoon, and recently dreamed of becoming a cattle rancher.

He bravely served in Vietnam with the Army 1st Cavalry. He later volunteered with the Purple Heart Foundation.

Surviving are his niece, Heather; his stepchildren MacKenzie, Matthew, Ryan and Joshua; and a grandson.

Alumni Weekend reunion, 5/31/19 – 6/2/19

'69 June 2018 — As we all approach our 50th class anniversary, we (Ed and Gerry)

thought a new class log was appropriate, as we all begin to think about getting together at Alumni Weekend next June. So we headed to the Stute at the beginning of June to attend this year's Alumni Weekend to scout out what the Class of '68 and others celebrating their anniversary year were doing.

We met up with **Dennis Erdman**, and we formed an ad hoc committee of classmates who, hopefully, will be able to recommend to our reunion committee a few interesting options for our gathering next June. (We are trying to meet online each month and encourage anyone wishing to participate to get in touch.)

While on campus, Gerry checked his mailbox to see if there were any useful suggestions. Surprisingly, he remembered where it was but the combination, thankfully, escaped him.

We are excited about the opportunity to come back to Stevens to celebrate this milestone, and we want to hear from you. A survey is in the works, and if we can ever track down a few of



Class of '69ers Ed Eichhorn, left, and Gerry Crispin, seen at Castle Point, are gearing up for their class' 50th reunion in spring 2019.

the Newark, New Jersey, downtown area. I continued to work in various positions as New Jersey Bell became Bell Atlantic Communications and then Verizon Communications. I retired in 2011 after 39 years of service, as manager, Centralized Operations, Emergency Management and Audit Compliance, in Basking Ridge, New Jersey.

"I was on the Pequannock Township Council in New Jersey for eight years (1983-1990), serving as mayor for two years. I met my wife, Betty, when we both ran for council in 1982, and we were married in 1985. I have been a member of the Pequannock Volunteer Fire Department for 40 years, having served in the offices as trustee, vice-president, 2nd lieutenant and 1st lieutenant. I currently drive engines to alarms, especially during the day. I am one of Pequannock Township's two representatives to the Two Bridges Regional Sewer Authority's board of directors, serving Pequannock, Lincoln Park, Fairfield, Riverdale, Butler and Bloomingdale. I am also one of the trustees on the Pequannock Township Senior Citizen Housing Corporation governing the Hearle Village Senior Citizen complex.

"I earned my Executive MBA from Rutgers in 1994. The course included a 2½ week overseas segment in London and Cambridge, England, and Prague, Czech Republic. I graduated from the FBI Citizens Academy during 2010.

"Betty and I enjoy traveling in the U.S. and overseas (Ireland, Iceland) including Germany, Russia and France river cruises. In February, we visited four islands in Hawaii and took a helicopter flight over the volcano which is now erupting."

On a sad note, Art reported that John Moskalski died earlier this year in his home in Arizona. Art

went to the same high school with John as well as **Bill Barker** and **Larry Leach**. An obituary for John is published at the end of this log.

Stan DuBrul writes, "My wife, Patricia, and I thoroughly enjoyed ourselves at the recent Alumni Weekend. If you haven't been back to Hoboken in recent years, you'll be startled by the size and breadth of changes to Hoboken and Jersey City neighborhoods and their skylines that have been integrated with the dynamic New York City waterfront.

"We last visited Stevens at our 40th reunion. In recent years, the Babbio Center has replaced the Navy Building, the A Building removed its center tower, and a new, enlarged facility replaced the Bayliss B&G building (south of the Navy Building). Stevens also dressed up current campus buildings and grounds that we all remember.

"On Saturday, we led a historic walking tour of the southeast end of Hoboken using my guide booklet that was distributed at our Friday night dinner. (Contact me if you want an electronic copy.) The tour included the restored Sylvia's Cave below the Point (covered with rock rubble when we were students) and the former sites of the Hoboken Shore Railroad, the SS Stevens floating dormitory, the infamous River Street bars, riverside warehouses and the former movie theaters — all replaced with a combination of parks, commercial, retail and housing complexes, and the new Sinatra Drive along the river."

I also sent some photos from the reunion dinner, so hopefully they will be published. More reunion stuff in the next log. Till then, be safe.

— **Al Foytlin**, foytlin01@gmail.com



Steven Bobker '70, who passed away last November, is remembered in the 1970 log.

the missing emails, we'll make sure everyone is aware of the choices.

Please let us know what you are up to these days, send us pictures or stories that you want to share with your classmates and also let us know what events you would like to be a part of during next June's reunion.

We're definitely thinking about dinner in Hoboken on Friday evening of Alumni Weekend next year, perhaps with tables by club, sport or fraternity. We could potentially take over Amanda's on Washington Street or any of the other high-end restaurants that now dot the city. (Always a few diners, drive-ins and dives left as well, but we're guessing your palate may have changed since 1969.) A Broadway show with your classmates? Tours of the buildings like the Babbio Center that sits on the old site of the Navy Building, where we all spent a lot of time? The new Gianforte Family Academic Center may be nearing completion by next June, and we might also be able to check out that new facility. Or perhaps a boat ride around Manhattan or a visit to the 9/11 Memorial and Museum or just time to visit with classmates and friends in the Stevens Center or on the new expansive Babbio Center patio. Everything is on the table.

Stevens is truly on an upswing since our new President, Nariman Farvardin, came to Stevens seven years ago.

A few key stats for your consideration:

- The entering freshman class in the fall 2018 will number more than 1,000. This is a new freshman class record that will occur during our reunion year! At the same time, we have become more selective since applications for undergraduate programs have increased over the past several years, up 156 percent to nearly 10,000 applications each year!

- Freshman SAT scores have risen significantly over the last seven years and are up 17 points from last year. Today's average is 1400 for incoming freshmen.
- Today's placement rate is 96 percent within six months of graduation. Every year for the last several years the placement rate has been more than 90 percent of the graduating class, with a current graduation rate of 87 percent. (A bit higher than our graduation rate 50 years ago)
- Athletics are still an important part of campus life. For the academic year that ended in June, the Stevens athletics program was rated No. 17 in the Learfield Directors' Cup for overall athletic excellence among all Division III schools. (That is No. 17 out of close to 450 college athletic programs.)

So let us hear from you. Join our reunion committee, as we have regular working video conferences and you are more than welcome to participate. Most of all, we hope to see all of you next June at Stevens. So please let us hear from you. Warm regards, Ed and Gerry. — **Ed Eichhorn**, ed.eichhorn@medilinkgroup.com; **Gerry Crispin**, gcrispin@careerxroads.com

'70 June 27, 2018 — So far I am having success with my tomatoes except for the ones the deer have started to eat. Corrective action has been taken.

Pete Bourdelle has completed a year of a consulting contract at ZOLL Circulation in San Jose, California. "I'm packing the rest of my stuff to cram into my 2001 Mazda Miata SE, (6-speed manual shift) for the long drive back to Allentown, Pennsylvania. My beloved wife Sandy keeps our home occupied with three rescue dogs and two rescue cats. With frequent visits to our camper in the Poconos, she loves to forage, here and there, for wild herbs and mushrooms, and creates marvelous meals, and other works of art. We're looking forward to having me home again for a while. Soak in the hot tub. Work on the 'honey-do' list."

Pete can be reached at pbourd@gmail.com.

You may or may not have noticed in the last *Indicator* under "Vitals" that **Steven Bobker** died on Nov. 8, 2017. We reached out to his wife, Hilary, with our condolences and she graciously provided information to share with our classmates.

After graduation, Steven worked for a period of time at the South Street Seaport where he

sailed historic ships. Hilary mentioned he would never fall asleep when they were driving across the country because he knew how to stand watch from this Seaport experience.

Steven and Hilary met online in 1989 before it was fashionable. She joined a discussion to learn more about Mac computers and Steven sent her a personal email mentioning she was the smartest person in the discussion so she knew he must be a very smart person. They married in 1990.

Steven worked for *MacUser* magazine, eventually becoming editor-in-chief. Mac had a tight set of rules to be followed. If Steve attended a convention and found someone was not following the rules, he would tell them he would make them famous by writing an article about them and publishing it in *MacUser* magazine. After *MacUser* magazine folded, Steven became editor-in-chief of *Windows User* magazine. He liked bright shirts for conventions so that he would stand out. He was known for them, which Hilary made for him.

Hilary was a pattern maker in the fashion industry, and they preferred to live in Drexel Hill in the Philadelphia area for 12 years. During this time, Steven also worked for the IRS although Hilary asked that none of our classmates hold this against Steven. When Hilary's job with Jones New York went to China, they decided to move to Florida. It was in Florida that Steven required a knee replacement and developed a MRSA infection. After three years in and out of hospitals, Steven eventually lost his leg and his life to this infection.

Steven and Hilary loved to play bridge and their dogs, Dutch Keeshonds.

We sincerely appreciate the time Hilary spent providing this information for us to share. She can be reached at hilary@anditwassew.com and mentioned she would be glad to hear from any classmates who knew Steven. We included a picture Hilary provided of Steven playing bridge.

Stay safe and well and start planning to get together for our 50th, now less than two years away. — **Eugene A.J. Golebiowski**, eagolebiowski@att.net

'71 June 2018 — We got together with **Phil Crowley** and his wife Diane at a Sigma Nu fraternity fundraiser at their "country cottage" in Far Hills, New Jersey. Phil is still working full time, alternating between his New Jersey and New York City offices. In keeping with his promise after retiring

from J&J several years ago, Phil is working on things he likes — providing legal services to clients who are providing services or working on products “to improve the quality of life.” On a recent visit to Florida, he decided to expand his real estate holdings with a “golf villa” in Palm Beach Gardens. There are still occasional visits to their Park City, Utah, “ski chalet” time share. He still finds plenty of time to babysit 3-year-old granddaughter Cassidy, sit on the SIT Board of Trustees and help on a political campaign. Next year, he hopes to spend six months and one day in Florida to become an official Florida resident. To do that, he is working on a method to have 730 days in a year.

We also met Eileen and Jim Morris there. Jim finally seems to be recovering after a few years of various health problems, but they are now dealing with some other family health issues. Jim has decided he is permanently retired, despite his deep yearning to return to MetLife. They were able to visit son Dan’s family (two grandkids) in Charlotte, North Carolina, last year and plan a July 2018 get-together with the whole family for a week in Wildwood Crest, New Jersey.

Among the old war stories from our days at Stevens, we discussed the trip the Castle Point cannon made to the Holland Tunnel during our freshman year. Highly reliable sources report that **John Newton** (*Indicator* Spring 2016 article) was a ringleader. A second “urban legend,” which apparently circulated at SIT in the ‘90s, has it that the Stevens ship was motorized as a senior project and sailed down the Hudson in the ‘80s. We concluded that it did not happen.

Sharon and **Dan Bagnel**’s 2017 western vacation covered 2,700 driving miles, and quite a few climbing/hiking miles. Starting in Colorado, they hit Great Sand Dunes National Park, Durango, Colorado, and took the old railroad



The Stevens Latin American Club (SLAC) held a reunion at Stevens during Alumni Weekend, with more than two dozen alums traveling from across the U.S. and abroad to Castle Point for a fun-filled weekend. Over the years, SLAC has met across the world, with its next reunion slated for 2020 in Lima, Peru. Read more in the '72 and '67 logs.

line to Silverton. Then it was off to Mesa Verde (Cliff Palace) and Gunnison National Park. After a visit with Sharon’s brother in Denver, it was off to South Dakota to see Wind Cave, Mount Rushmore, Theodore Roosevelt National Park and the Badlands. They stopped over in Medora, North Dakota, to check out some of Dan’s family heritage. Unfortunately, Dan had some bad western barbeque and spent three days in a Rapid City, South Dakota, hospital. They now have been to 46 of the 59 U.S. National Parks.

They added a few East Coast travels including the Biltmore estate in Asheville, North Carolina, Cuyahoga National Park in Ohio, Cleveland’s Rock & Roll Hall of Fame, Ocean City, Maryland (including sand castle construction with granddaughter Abby), and a December trip to Nashville to see the Christmas show and a LeAnn Rimes concert. Babysitting continues to be a major vocation, with new grandchild Henry going on 2, and Abigail almost 10. Since Dan is now fully retired, he needed to maintain his project manager skills, so he agreed to oversee a renovation at their church. Sharon takes frequent trips to see her dad (91) in New Jersey but, sadly, had to sell their family house where she had lived growing up.

I exchanged emails with **Tony Cusanelli** ’70 with news on the June 2018 Pi Lambda Phi fraternity alumni get-together in Wildwood Crest and Cape May, New Jersey. The group had kept in touch for a while after graduation but drifted apart (careers, children, etc.). After about 40 years, they reconnected on Facebook, and six couples met up again in June for a “Spring Senior Shenanigans” weekend of memories, laughter and good-natured ribbing. Most of those attending were Class of ’71 — and incredibly, were still married to the spouses they met while at Stevens! Attendees included Candy

and **Bill Rerecich**, **Barbara and Brian Fitzpatrick**, **Lois and Joe Scerbo**, **Fran and Vinnie Truncelli**, **Char and Mitch Stanko**, and **Linda and Tony Cusanelli**. Tony says that even though the fraternity is no longer on campus, the brotherhood is stronger than ever.

— **William F. Stengle**, wfs20hlm@aol.com

’72 June 2018 — (Written collaboratively by **Enrique, George and Bill**) Fellow Classmates:

Alumni Weekend just finished, and I’m ready to collapse on a lounge chair on the deck of a cruise ship with a mojito IV. The reason is that I just finished coordinating the reunion at Stevens of the Stevens Latin American Club (SLAC). This group was founded in 1962 by **Vicente Citarella** ’62 and traditionally welcomed Spanish-speaking students at Stevens. We found a surrogate family of kindred spirits and always commandeered the same two tables at the cafeteria, sharing stories and jokes. We also let out our frustrations regarding some of the different professors at Stevens. As I recall, the organic chemistry professors usually took the brunt of the abuse, which made me glad I had chosen mechanical engineering for my concentration.

Over the last two decades, SLAC has met five times in different countries throughout the world. This year, for the first time, we came together at Stevens. It was quite the homecoming. We went on a cruise on the Hudson aboard the *Spirit of NJ*; went to the observation deck of the Freedom Tower; took a campus tour; and had a group dinner at the Howe Center. It was wonderful meeting all the friends from the past and getting reacquainted. Our class has five members in SLAC. **Otto Bendeck**, **Tomas De Rossi** and I managed to come to the reunion. **Alberto**



Pi Lambda Phi alumni from the early 1970s and their wives reunited in June for “Spring Senior Shenanigans” in Wildwood Crest and Cape May, New Jersey.

Furmanski and Juan Espinosa could not make it for work-related reasons. The SLAC will meet in Lima, Peru, in 2020.

On Saturday, our class proudly was represented at the Alumni Dinner Dance by class officers John McDonnell, George Johnston and me, together with our spouses. We were there to celebrate with our friend, Tom Moschello '63, who was the recipient of the prestigious Stevens Alumni Award.

One last item before I turn you over to George. **Steve Bistak** sent out a note that the party is over! After years of hosting a Fourth of July party at his house down the shore, the Bistaks are downsizing and have put their house up for sale. Paula and Steve, you were excellent hosts, always friendly and welcoming. Steve, as master chef at the BBQ, your food was delicious, and the entertainment was awe inspiring! Good luck in this new phase of your lives. Thanks for the memories!

Enrique, many thanks! In the last *Indicator* (See "A Final Thought"), we hope that you had a chance to read **Mark Schneider's** (MailForMark-nou@yahoo.com) remembrance of our deceased classmate, **Al Rhodes**. Mark, thank you so much for sharing your thoughts with us. May Al rest in peace knowing that he had such good friend.

Now a word from our most-excellent fund captain, **Bill Landau**, about our Class Endowed Scholarship recipient, **Haijun Ramoundos '18**.

"Haijun began his studies at Stevens with a strong interest in automotive engineering. Like many of us who attended Stevens, Haijun's horizons broadened while on campus. In his case, he developed an interest in general manufacturing, where he completed a second concentration in product design and manufacturing. These studies were further enhanced with course in the Lean Six Sigma quality control methodologies. As part of his senior project, he participated as a member of the Baja Design team which built an all-terrain vehicle that became Stevens' entry into an international competition sponsored by the Society of Automotive Engineers. Haijun also gained valuable practical experience from three separate corporate internships which were



The Class of '73 marked its 45th reunion this spring, when they made a \$106,775 donation to the class' endowed scholarship. With them is Stevens President Nariman Farvardin.

facilitated through the Stevens co-op program. If all of that wasn't enough, Haijun also managed to find the time to take on the challenge of running a 26.2-mile marathon!

"Following completion of his studies culminating in a mechanical engineering degree, Haijun will embark upon his professional career with a position at Newport News Shipbuilding. All of his considerable talents and skills will be called upon to help launch the next generation of high-technology seagoing vessels. He is looking forward to achieving financial success which can be used to assist future generations of aspiring students. Way to go, Haijun!"

Thanks, Bill! Glad that our class scholarship support was given to such a worthy individual.

Lastly, many thanks to those who responded to our request for class updates. We continue to welcome receiving your updates and photos. Please make the time! Just do it! And thanks in advance.

— **George W. Johnston**, gwjohnstonjr@msn.com;
Enrique L. Blanco, elbmcb@optonline.net

'73 Jim Wallin was in contact, and writes: "My daughter is getting married Friday, May 25, Memorial Day weekend. She has found a beautiful place in Stroudsburg, Pennsylvania. Trout Lake Retreat Center is a camp and retreat center right on the lake. It seems to have been there a while, but has many new facilities. The cafeteria turns into a banquet room with large windows facing the lake. We just went Friday to have a final meeting with the coordinator. My daughter lives in South Jersey and works for Dupont in Wilmington. Her fiancé's family is in Philly and west in PA. My family is in Bergen County and my wife's is largely in the Woodbridge area. My daughter tried to pick a place equidistant for everyone. She had worked for a consulting accounting firm and spent a few weeks in Stroudsburg for several years so she knew a little about the area. We found a beautiful little country church, too."

Frank Vastano writes: "By the time you read

this, we will have marked the 45th anniversary of our graduation from Stevens. Your class officers put a lot of energy into the 45th reunion, not the least of which was the establishment of an endowed scholarship that we plan to present to Stevens at our 50th reunion in 2023. Please consider donating as much as you can over the next five years, so we can make this endowment something we can all be proud of! On a related note, **Harvey Millman** is no longer the fund captain for the Class of '73. Harvey was not able to perform his duties as fund captain, so the class officers agreed to have me take on the role of interim fund captain, in addition to my role as class president. As a result of the email message I sent to our classmates announcing Harvey's departure, **Bruce Blondina** responded and expressed his interest in filling that role. So, I am pleased to announce that Bruce Blondina has now filled the role of class fund captain going forward. On a personal note, 2018 has been, and will continue to be, a year of many special events for the Vastanos. My oldest daughter, Vanessa, gave birth to my first grandchild in January, named Cassandra. I can't resist including a picture of her with me and my wife, Arlene. In May, my youngest daughter, Cassidy, graduated from Fairleigh Dickinson University (FDU). She will be attending graduate school in the fall at FDU, so I am still not free of tuition payments. Finally, by the time you read this, my middle daughter, Alexa, will have gotten married to her fiancé, Brian! We are planning for a fairly large wedding, which will be held at the Galloping Hill Golf Course Clubhouse. Brian is an avid golfer, and I know, because I played golf with him a couple of years ago, and found the experience to be quite humbling. I was never a very good golfer, but playing with him really drove that fact home for me!" — **Anthony Callendrello**, acallendrello@comcast.net; **Frank Vastano**, fvastano@comcast.net



Arlene and Frank Vastano '73 welcomed their first grandchild, Cassandra, in January 2018.

'74

June 2018 — In the beginning, we met in the Stevens Center and were told “look to your left, look to your right.” Fear shown on our faces and some recent friends soon departed. Now many years later, we look to our left and look to our right and miss the now older and dearer friends with whom we have shared so many stories, both from our years at Stevens and of our exceptional lives since.

It is with great sadness that we say goodbye to our class member, Dr. **Mark Vedder**, an honored and esteemed classmate and Beta Theta Pi member. His wife, Cathy, and his fraternity brothers, shared Mark's story below. May our thoughts, words and deeds comfort Cathy and her family at the passing of her dear husband.

“Mark passed away on April 2, 2018. A Long Island native and Wheatley grad, Mark applied to Stevens because his mother dated a guy during WWII who went to the school. He attended summer school at Stevens prior to admission, due to his low verbal SAT score. He lived on “The Ship” for two years, watching the Twin Towers being built. Calculating his GPA to be high enough to get into grad school, he moved into the “Beta Jungle-top floor” for his final year at Stevens. Critical to Mark's goals for senior year was to win the coveted ‘All Sports Trophy’ from the Delts. He woke his brothers up for daily boot camp at 5 a.m. by pounding a baseball bat on a metal garbage can lid. It worked! The Betas WON! The story is legend.

“Mark was always ready to entertain with his electric guitars and amps. Self-taught, just ask for any hit of the Rolling Stones, Animals, Led Zeppelin or Eric Clapton, and Mark would deliver.

Volume LOUD, even when restricted to the Beta basement. With many consults from his civil engineer brothers, Mark built a garage and an addition to our homes over the years.

“Smiling Stevens alumnus, Mark Vedder, became the studious, serious grad student at UCONN when I met him in the fall of '74. Afraid that I would think he was a geeky nerd (he wore black ‘engineer glasses,’ which are now back in style) he told me he was studying math. After a week, he came clean with the Ph.D./physics path that was ahead. I suggested we have a beer (18 was the legal age then) and go to a football game. He brought his slide rule and a book for halftime study. Things never changed. He played pitcher for the physics softball team. We were married a year before he finished his doctorate in experimental atomic and molecular physics in '80. He went to work for the DOD in D.C. under Reagan's program, and he worked on the hardening of communications aircraft against nuclear EMP (electromagnetic pulse), specifically the president's helicopter and Air Force One.

“In '87, Mark was hired by AT&T Bell Labs, Holmdel, New Jersey, and was an active employee in R&D until he was hospitalized this past December. He finished 30 years with them, having received three patents for AT&T. His expertise was in state-of-the-art optical transport systems, as the world's demand for data grew. When asked what he did for AT&T, he would, in turn, ask you, ‘Does your cell phone work?’ followed by a sincere, humble nod.

“As a scientist, engineer and fellow alumnus, Mark would tell you to pay attention to your heart, your EKG and echocardiogram. He inherited a genetic mutation which caused a TAA (aneurysm). Thank another Beta brother physician for the referral to the surgeon who operated eight years ago! This time, his mitral

valve ruptured, was repaired, but his lungs were unable to recover after four months on a vent. His Beta brothers visited him constantly, kept his spirits up and monitored all his machines. Although I'm an R.N., their help and support was critical to me. They were, in Mark's words, ‘infinitely

invaluable.’

“Mark coordinated ‘Beta Weekend’ for his brothers starting on their 40th reunion, June 2014. Golf and dinner on Friday, then to the Beta house on Saturday for a BBQ provided by the resident summer brothers. This year, our kids and I were invited. We wore VEDDERFEST T-shirts designed by a brother and did our best. After Mark's first surgery, he often said, “I made the most important decisions in my life when I was so young — age 17 — go to Stevens, and at 19, to pledge Beta. ‘We are forever grateful to Stevens and to Mark's Beta brothers. They RULE.”

Your new class leadership team, by the numbers!

President **Frank Donaldson**, Vice President **Greg Gemgnani**, Fund Captain **Bob Thoelen** and Secretary **Gary Jung**

Four spouses (couples and years of marriage): Joan and Frank - 44, Claudia and Greg - 43, Judy and Bob - 41, Roberta and Gary - 36. All big winners in who chose us. Frank and Joan lead the team in years married. Check out Greg and Claudia in the 1974 *Link*, page 152.

Fourteen children: 2, 4, 5 and 3; predominantly female. Bob and Judy are the clear leaders.

Twenty-seven grandchildren: 2, 5, 13 and 7. Bob and Judy again are the leaders.

Current residences: New Jersey, Pennsylvania, Connecticut and Pennsylvania. Four-way tie for best locations!

Livelihood: entrepreneurs, corporate engineers and executives.

Volunteering (churches, town council, planning board, private school board, economic development corporation, Stevens). Bob was heavily involved in college recruiting at Stevens, helping to place well over 100 students in full-time positions and internships. Go Bob! — **Gary A. Jung**, jungpackaging@msn.com

'75

June 2018 — Greetings from Joe Krieger!

In less than two years, I hope to join with you in celebrating our class' 45th anniversary at Alumni Weekend 2020, which will also commemorate Stevens' 150th anniversary of operation — this should make for a very special Alumni Weekend, indeed!

Further details will be forthcoming, but planning for our 45th will likely start during the late summer of 2019, so this becomes an opportunity for each of us to participate in planning our reunion.



Mark Vedder '74, above, and seated in the 2017 photo with his Beta Theta Pi brothers and his wife, Cathy, passed away in April. Cathy and his brothers share a touching remembrance in the '74 log.

Have you attended past Alumni Weekends? What activities would you enjoy during our 45th? A perennial favorite is the dinner dance traditionally held on Saturday night during Alumni Weekend. Tables are usually organized by class years, and this is arguably the best venue to meet and socialize with Stevens friends from other class years. Other favorites include the New York Harbor Spirit Cruise that **Karl Young** organized for our 40th reunion. Think this over and share your thoughts with me.

Only five more issues of *The Indicator* will be published prior to Alumni Weekend 2020, so please delay no longer to send in your stories of college memories — or family or professional or retirement achievements — for publication in this log! *The Indicator* editors would gladly print any high-resolution (1 megabyte or greater) photos that you may send with your story.

By the way, you may also send your log submissions directly to alumni-log@stevens.edu — thus bypassing your humble class secretaries. (But I encourage you to email your log entries to me: The editors probably rely on us class secretaries to help enforce the 800-word limit on each class log.) My deadline for the next issue will likely fall in mid-to-late October, so please get started putting something together.

Thank you to those of you who sent a donation during Stevens FY2018 (from July 1, 2017, through June 30, 2018). For those of you who want to beat the “end of the FY rush” by making a donation to Stevens before the holidays, thank you as well, and please consider the **Class of 1975 Endowed Scholarship Fund**.

Please remember to send your stories in for the class logs in the very near future — or else I may have to start making calls to some of you in the evenings! (If you screen incoming calls by caller ID, my phone number will show up as 978-957-5954. And, if you call me, please leave a message on my answering machine.) Stay well! — **Joseph A. Krieger, joe.krieger.75@gmail.com**

'76 June 2018 —
Sadly, just
as we were

going to press, we learned that **Frank Panebianco** passed away unexpectedly on June 22, 2018, in Houston. Please keep his family in your thoughts and prayers.

We are graced with two first-time (I think)

contributors. First is **Foster Miller**, with a brief update.

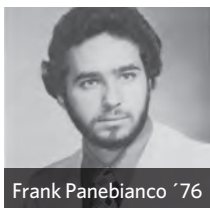
“I will be retiring from the National Security Agency on July 3 after 42 years of government service. In recent years, I’ve been attending the annual Stevens D.C. area alumni holiday party at Congressional Country Club and the annual “State of Stevens” presentations. I haven’t seen anyone from the Class of 1976 — closest would be **Paul ‘Rock’ Porzio** from the Class of 1977.

“Outside of work, my hobby is stamp collecting. I am an officer and director of the American First Day Cover Society (AFDCS), a stamp collecting organization for collectors of new stamps cancelled on envelopes on the day they are issued. The AFDCS holds an annual convention called Americover. The photo shows me speaking at a stamp dedication ceremony for the USPS’ ‘Soda Fountain Favorites’ stamps, held as part of our Americover 2016 convention in Falls Church, Virginia.”

Our second first-timer, **Steve Gauthier**, starts by saying “Celebrating five years with Energy Experts International as VP & general manager Midwest Region. EEI is an international management consulting firm, specializing in energy supply, delivery, and utilization systems. Established in 1998, we serve a diverse client base across the United States, as well as international clients. EEI is a multi-faceted firm, bringing a full range of engineering, management consulting, and field augmentation services to meet the needs of the energy industry. I work out of a Chicago office and manage business opportunities from Indiana to Texas.”

Steve continues: “Love traveling with my family. Recently spent a week in Jamaica, sightseeing, snorkeling — drinking Red Stripe. Didn’t want to come back. Ya Mahn — no problems.” Steve also included a few pictures with his family climbing Dunns River Falls from the Jamaica trip. Thanks to both of you.

And **Don Lynch** (a repeat contributor) came in just under the wire with this (a repeat contributor): “You inspired me to donate and sent a quick note. Hopefully more ‘76ers will do the same. I am enjoying retirement, sharing time between New Jersey and Sarasota, Florida. Playing lots of golf, traveling, doing the beaches and visiting grandchildren and children — from San Francisco to North Carolina to Pennsylvania and New Jersey. Attached is a picture of me and my son with my 7-month-old grandson on Father’s Day. His lovely



wife was there as well. Also took the other three grandkids and my daughter and her husband to Disney this past winter. It was a blast.

“Had the chance to visit Cambodia and Vietnam last year and it was amazing. Quite an experience. The people were wonderfully friendly. I can’t describe the range of emotion for someone of our generation. I recommend Ken Burns’ TV series on the war — so tragic — the commitment of so many young soldiers mixed with the protests of our government involvement was so well documented. So glad to see the people there working on making a strong comeback. They work hard, are very talented, despite lots of poverty in the country — but the cities are thriving a bit more. In any event, I hope all my fellow classmates, especially Sigma Nu alumni, are doing well. Enjoy! Don Lynch”

As you may recall when we started planning our 40th reunion, we challenged ourselves to raise \$40,000 toward an endowed scholarship funded by the Class of ‘76. While we made great progress that first year, we surpassed the goal this year with a total of \$42,247 raised by the deadline for this *Indicator* submission. A great achievement — **thank you to everyone!**

By the time you are reading this, we are just entering the 2019 fiscal year — and none too soon to start thinking about donating again — and hopefully adding to the endowment. Please consider donating again now — or if you’ve refrained in the past, please consider making your first donation this year. Overall, the institute had a 19 percent goal for alumni contributing and our class was about 21 percent in the fiscal year just ending. This percentage is strong, and on par with rates for our fellow ‘70s graduating classes, but we can certainly be better than average! As Stevens continues its important work, and becomes an even more innovative and transformative school, alumni support remains critical. I encourage you to give back to our alma mater to support current and future students. Thank you for considering your next donation.

Finally, please, just after you put this *Indicator* down, drop us a note (frankroberto76@gmail.com) with an update — short or long — about you, your job (or retirement), your family, anything — especially if you can supplement your words with a few pictures. Thank you, from Frank, on behalf of the whole class. We want to hear from you. Please! — **Co-Secretaries Frank Roberto and Tom Errington, classof1976news@live.com**



Steve Gauthier '76, with his family, conquered Dunn's River Falls in Jamaica. Read more in the '76 log.

77

July 6, 2018 — Hello again!

Well, after a winter that seemed to never want to go

away and a spring that maybe lasted four days (Ok, that's exaggerating — five days!), we're definitely into the dog days of summer maybe a month before what are usually called the dog days of summer. Hope this log finds you all well. And as they say, "And here now, the news."

In an attempt to reach classmates who are a bit farther from Tech than many, a mini '77 reunion in Boston was organized for the weekend of June 9-10, 2018. During the mini-reunion, most folks stayed at the Langham Hotel and on Saturday morning they started off at the USS Constitution Museum followed by lunch in Charlestown, returning to the hotel by water taxi, ending up with dinner at the Boston Sail Loft. **Eric Olsen** reported that he, **Mark Roth** and **Dawn Ortell** were unsuccessful at enlisting for USS Constitution duty for being considered "too silly." **Bob** and **Donna Miller** invited everyone to view Boston from atop the Custom House and all reports are that it was a perfect day for it. Thanks to Mark Roth and Bob Miller who were good enough to be the local tour guides.

Got word recently that **Pat Conolly-Callahan** and **Bob Callahan** celebrated their 22nd anniversary. Often times Pat will post, on Facebook, photos of her fantastic knitting talents. The latest was "Prayer Shawl #5 for 2018...". It is a major work measuring 25" x 65" with numerous color changes. Pat mentioned that she "... tried/learned a new continuous flat braid method for joining all the 27 motif rectangles and at the four corners this resulted in a beautiful 'cross' to complete the prayer theme." I'm glad somebody in the world has that kind of patience.

Paul Antieri reports that he and his family spent two weeks on the Colorado River at Emerald Cove resort in Earp, California, for some well-deserved jet skiing and soaking in the sun.

There was one photo that looked like fun, as they were feeding the mules who visit nightly. Paul noted that, at one point, it was 115 degrees during the day. Of course, we continue to get posts about his band, Emerald City. Paul plays drums, and the band does classic rock numbers.

Ken Miller made me quite jealous when he posted that he had visited the Rock & Roll Hall of Fame (Cleveland, Ohio). He said it was a "great place to revive your music memories. They had a 1975 tour poster for the Rolling Stones. We went to their Madison Square Garden concert in June 1975. The stage started as a closed flower, and Jagger was hanging on to the top of it as it opened!" Ken and his wife also recently visited the Pinewood Atlanta film studios complex in Fayette County, Georgia. Another post showed that Ken teamed up with Bob Miller, and **Ken Le-gal** to get together, talk and reminisce about their late friend, our classmate **Glen Moloney**.

Peter Attas posted that he and his wife Terri went on a trip to Asheville, North Carolina, on the occasion of their anniversary. Peter reported that he found a pinball machine "museum" during that visit. "After visiting Looking Glass Falls during the rain, we stopped there for a while. Found the game I mastered in college. 40 years later, I didn't do so well but it was fun!"

From **Susan Barbash**: Susan and **Brian Allen** recently spent time and had another blast visiting Disney World for Brian's birthday. There was a series of pictures with breakfast guests such as Mary Poppins, and also there was a Mad Hatter, and some gal named Alice.

Another anniversary: **Scott Orshan** posted that he and Susan just celebrated their anniversary — their 32nd! (I'm picking up a trend here.)

Before I forget, back at the beginning of April 2018, Regina and I met **Camille (Peplowski) McQueen** and **Bob McQueen '76** and we had dinner at the wonderful Italian restaurant Filomena's in Washington, DC. It was great to catch up with them to hear about their children and Camille's stories of the trials and tribulations of teaching.

I'm sorry to say that I have to close this section with some sad news. We got the word that **Harold Wolverton**, who started with us as a member of the Class of 1977, passed away May 1, 2018, at the age of 62. Many of you know that his wife is another classmate of ours, **Anne Tom**. They had four children, Peter, Matthew, Leigh-Anne and Allan and a granddaughter, Sophia.

Now for some business for those of you who are planning to make a donation to Stevens in this

Serving the Stevens Alumni Association as president, trustee and on numerous committees has provided me the opportunity to contribute to the advancement of Stevens, work with loyal alumni spanning over five decades to promote alumni engagement and experience the satisfaction of giving back to an institution that prepared me to compete with the best-of-the-best. — Dick Magee '63 M.S. '64 Sc.D. '68 (2001-2003)

latter portion of the year. We just want to remind you about the Class of 1977 Scholarships. In case you weren't aware of this, our class has been giving eligible students scholarships for 20 years. These "term scholarships," in our class name, have helped students with tuition/fees in the amounts of \$500 to \$1,000. You may have gotten the word that last year we commenced the funding of the "Class of 1977 Endowed Scholarship." The fund will be managed by the Stevens Endowment. Our goal is to make the first (annual and perpetual) gift after accumulating \$100,000. Presently, we are at \$40,000 in the endowed fund and we plan to continue to give term scholarships while we build toward the \$100,000 goal. Thank you to all who have contributed to date. If you want to direct your donation to either the term or endowed scholarship you can do so by contacting Eric Olson at: classof1977@alumni.stevens.edu or more directly at: <https://www.stevens.edu/directory/alumni-engagement-development/give-stevens>. If you're on the website to give online, you'll find the link to click on "Give Now." From there, the next page has a button saying, "Search for a Designation." That will then take you to the next page where there's a search box and all you do is put in "77" and click on search and you will get two links for giving options, one for the "Class of 1977 Endowed Scholarship Fund" or "Class of 1977 Term Scholarship Fund."

We will always appreciate any news you can provide for *The Indicator* log to let your classmates know what you're up to these days. You can help us by feeding information on mini-reunions or "get together events" that you would like to promote to any one of the class officers. Or to stay in touch, give us an update and indicate that you don't want the information distributed



The Class of '78 celebrated their 40th reunion on campus this past spring; the photo below shows many of the same classmates at their 5th reunion in 1983.

on any of the other social media outlets (all closed groups) — and we'll limit it to the class log (*Indicator* publications - 3X/year, usually with a four-month lead time).

There are a number of ways to get the word to us: *Stevens Indicator* (send your inputs to **Paul Porzio**, secretary): send email to: classof1977@alumni.stevens.edu or via our own website StevensClassof1977.com; by the way, we have secured funding to keep our StevensClassof1977.com website alive. LinkedIn: "Stevens Class of 1977" (19 members-closed group), (<https://www.linkedin.com/groups/4478051>) and we do have a Facebook page: "Stevens Institute of Technology: Class of '77" (https://www.facebook.com/groups/291489440882555/?ref=group_header) (44 members, closed group)

So, given the timing of this particular *Indicator*, here's hoping you have a great autumn and a wonderful holiday season. Don't forget to drop us a line and let us know how you're doing.

Thanks. — **Paul Porzio**, eclectichours@cox.net

'78 As previously communicated, our 40th reunion took place in Hoboken on June 1, 2 and 3.

Despite an ominous weather forecast, the rain held off and we enjoyed a very nice weekend. We had a good turnout — approximately 25 of our classmates and many significant others attended various activities over the course of the

three days. The photo above was taken at Friday evening's dinner. The second photo was taken 35 years ago, at our 5th reunion. Many of the same people were in attendance, and it's amazing to see how little everyone has changed!

In addition to seeing **Maureen** and **Jim Weatherall** at the reunion, he sent me the following update:

"In December 2017, I was elected president of the Société de Chimie Industrielle, a nonprofit independent organization founded in New York City in 1918 (www.societe.org). The Société is involved in numerous activities including our highly regarded and well-attended monthly luncheons, featuring guest speakers, the list of which includes CEOs and other C-level executives, government leaders and the investor community, scientists and other chemical industry experts. Through the support of our members and donors, Société also provides scholarships to students pursuing the study of chemistry and chemical engineering at NYC-area colleges and universities. In addition, The International Palladium Medal is awarded biannually by Société to honor an individual who has distinguished himself or herself by reason of outstanding contribution to the chemical industry.

"I have been serving on this board since 2011 as vice president of administration. At our monthly luncheons, we host (for free) undergrad and grad students attending NYC-area colleges and universities, including Stevens, Columbia and

NYU. These networking events offer students an opportunity to meet chemical industry execs and practice their business social skills."

Thanks, Jim, for the update. Anyone else who would like to let us know what has been happening in their lives since graduation, please email me and I'll forward it for inclusion in a future issue. — **John T. Jarboe**, jjarboe1@comcast.net

'83 June 2018 — Update from **Liz Gauthier (Spychala)**:

"After graduation, I moved to Washington, D.C. and started my career at M. Rosenblatt and Son, Naval Architects and Marine Engineers. In 1989, I entered federal service and supported the Navy in various ship design activities and program management capacities including an assignment as deputy ship design manager for the CVN 78 carrier program. (I attended the commissioning ceremony in Norfolk last summer, so that gives you some idea of how long it takes to design and build an aircraft carrier!)

"In 2003, I entered the NAVSEA Commander's Development Program spending two years in various high-level assignments within NAVSEA and in the Pentagon. In 2005, I joined the Office of the Secretary of Defense Naval Warfare group and was responsible for providing acquisition oversight of the Navy's amphibious and auxiliary ship portfolio.

"Along the way, I obtained a master's degree in public administration from American University and most recently another master's in national security and resource strategy from the National Defense University, Eisenhower School. It was great to be a full-time student again and I learned so much from my classmates representing Army, Navy, Air Force, Coast Guard, State Department, Department of Commerce and Department of Homeland Security. Part of the program included assessing the impact of specific industries on our economy and so I was lucky enough to travel to Bangalore, India; Singapore; and Shanghai, China, to compare their approach to healthcare investments.

"Currently, I am assigned to the OSD Office of International Cooperation supporting the India Defense Technology and Trade Initiative. (My last trip to New Delhi included a nice side trip to the Taj Mahal.) To make things interesting, I was just assigned responsibility to serve as the country desk officer for Denmark as well.

"Like most careers, none of this was planned, so it's been an interesting journey.

"But here's my real life work. I married my husband Peter in 1989 and along the way we ended up having eight children — four daughters and four boys, in that order (which includes a set of twin girls)! As you can see, I've been busy and that's why I never sent an update to the alumni magazine!

"Everything has been a blessing and I am grateful for all that has unfolded over the years. And it all started because I attended Stevens!"
— **Linda G. Smith**, lindagildasmith@gmail.com;
Tim Moran, matp2m@aol.com

Alumni Weekend reunion, 5/31/19 – 6/2/19

'84 Next Alumni Weekend will be our 35th reunion. A good time to attend with our kids out of the house. Send me any updates or ideas for our reunion! — **Robert Confrancisco**, rconfrancisco@gmail.com

'86 June 2018 — Hello '86ers! I spent the weekend at the Stevens reunion. The President shared a new project to build a dormitory and university center with 1,000 new beds. In 2020/21 we are celebrating several anniversaries: 150 years for Stevens and 35 years for the Class of 1986.

Greg Logiodice shares that he is the managing director at Deloitte Consulting and living in Nyack, New York, with **Bernadette (Stepanick)** '85 and their two daughters.

Jason Balmuth is working at JHU APL and wants to stay there until retirement.

Dmitry Arshansky writes "I'm still in Michigan, in the Detroit area. Have been here since 1993. After many years with Ford, I changed careers in 2001 and became a financial advisor. Hard to believe that was 17 years ago! I am now with LPL Financial, helping clients with their investments and retirement planning. My daughter is finishing up her freshman year in high school. She keeps my wife and me busy with her field hockey and lacrosse. Between practices, games, school events and concerts, I sometimes feel like an Uber driver. But it's all good, just the joy of parenting."

Franco Dicchio says that he has managed to stay in touch with **Dmitry Arshansky**, **Bela Vincze**, **Demetrios Anyfantakis** and **Mai Tan**.



Class of '86ers **Franco Dicchio**, left, and **Demetrios Anyfantakis** looking sharp back in the day.

"Bela lives north of Philly with his wife and two teenage daughters. After ditching his engineering aspirations, he became a successful pediatric dentist, owning his own practice across multiple locations!

"Demetrios works in Moscow, owns a home in Athens, and travels all over the world as the head of the global trading for Lukoil (not to mention his vacation home in Dubai). He has three sons, with the eldest just recently graduating from Penn (and sure to follow in his father's successful footsteps).

"Mai lives in Dublin with her husband **Mike Murphy M.Eng. '82 Ph.D. '87** (yes, the same Mike Murphy you remember as our Circuits TA back in sophomore year!). They have two sons, the youngest of which just won a full ride to Boston College! When not perfecting her golf game (with an already impressive single-digit handicap), she has cultivated a Thai/Cambodian catering business and also specializes in acupuncture.

"As for me, when not living abroad, I continue to have North Jersey as my base and live in Denville with my wife **Annette Tassone M.S. '90 Ph.D. '93**, teenage daughter **Romina**, and teenage son **Gianangelo**.

"I have evolved my business operations consulting gig to specialize in integrating point-of-sales (POS) systems with financial tracking and ordering/inventory management (with all the bells and whistles of graphical reporting, trending analysis, and insights to optimizing the bottom line, of course!).

"We are headed to Italy this summer...unlike the summer of 2006, when we were in Rome, there will be no celebrating Italy winning the



1 Good friends reunited recently, as **Mike Murphy M.Eng. '82 Ph.D. '87** and his wife **Mai Tan '86**, standing at left, and **Annette Tassone M.S. '90 Ph.D. '93** and husband **Franco Dicchio '86**, at right, and their families gather.

2 The Class of '83 celebrated its 35th reunion this past spring on campus.

Vitals

Marriages

Tom Mongelli '10 to Kristin Germinario on July 15, 2017.

Brianne Pentz '12 to William Hochkeppel '12 on June 2, 2018.

Morgan Scalzi '13 to Andy Continisio '14 on Sept. 23, 2017.

Births

To Gina (Joyce) Mazarakis '06 and Harry Mazarakis, a boy, Luke Anthony, on March 7, 2018.

To Stephanie Sota '11 and Alex Sota '10, a daughter, Adelyn, on June 10, 2018.

Obituaries

W.H. Story, Jr. '36 5/9/18
A.C. Colaguori '44 12/19/18

P.H. Rohr '45 5/15/18

W.J. Torrens '46 5/16/18

L.J. Kuzenski '47 6/11/16

T.A. Pesci '48 2/22/13

M.A. Kogan '49 1/12/18

E.L. Vogliano '51 6/24/18

J.M. Mazzilli '60 5/23/18

D.R. Peacock '60 5/14/18

J.J. Nagy '63 4/4/18

J. Moskalski '68 2/13/18

S.M. Bobker '70 11/8/17

M. Vedder '74 4/2/18

F.S. Panebianco '76 6/22/18

K.M. Furdyna '17 5/26/18

Graduate

A. Delli Paoli, M.S. '50 2/17/18

P.A. Rienzi, M.S. '78 5/3/18

World Cup this time. My daughter, who just finished her freshman year at Penn State, managed to secure a summer marketing internship position with Juventus FC headquartered in Torino, Italy!!

"My soon-to-be-a-junior in high school son has ambitions to go to Stevens (and also play soccer). That would surely make his dad proud! So I hope to be providing updates on that in the coming years."

Steve Buce shares "I have dipped my toe into obstacle course races (<https://ruggedmaniac.com>) just to prove that I'm not that old yet. But the knees will only take so much before I have to curtail my sports."

Frank D'Agostina writes: "I am very proud to share that I have five children with my wife Doreen. Three girls and two boys, in that order. My first daughter, Christina, graduated Stevens last year as a mechanical engineer and is working in the city. My second daughter, Amanda, just graduated Stevens with her B.S. in BusTech with marketing and won the senior project entrepreneur award. She starts work at Verizon in a few weeks. Third daughter is graduating next year from Siena. My first son, Frankie, starts Stevens this coming year, taking computer engineering. My second son, Nicholas, is a sophomore in high school. He has his eye on Stevens also. I have my own business, BOSS Technologies (just me so far). I am a consultant working as a system architect specializing in business process management and automation."

Peter Hacke shares: "First job out of Stevens wasn't great, so I did a Ph.D. in materials science at North Carolina State University, postdocs in

Meet Luke Anthony Mazarakis, son of Gina (Joyce) Mazarakis '06 and Harry Mazarakis, born on March 7, 2018.



Japan, MBA at the University of New Mexico, and now working on PV module reliability at National Renewable Energy Laboratory. Family too, with daughters 10 and 12. Would be glad to hear from you!" — Deborah A. Motler, Dmot419@gmail.com

Alumni Weekend reunion, 5/31/19 - 6/2/19

'89 June 27, 2018 — I hope you all have had a happy, relaxing summer! Can you believe we are only one year away from our 30th reunion??! (GASP*COUGH) Hard to fathom. I've heard from a handful of folks looking forward to it, so please mark your calendars for the first weekend in June 2019! More info to come your way soon.

I had a couple more thoughtful responses to my crowdsourcing question:

"What kind of advice have you imparted (or one day will) to young, impressionable minds regarding getting the most out of their college experience?"

Bill Martin: If you even think you might go an engineering/science route, get ready in high school. Take calculus, physics, any other AP sci-



Brianne Pentz '12 M.Eng. '17 married William Hochkeppel '12 on June 2, 2018, surrounded by many friends from Stevens. Back row, from left to right, are Robert Pellegrino '11 M.Eng. '12, Matthew Dos Santos '11, Mark Weston '12, Richard Prego '13 M.Eng. '15, Jose Jaime '09, Adam Spina '13. Front row, from left to right, are Michele Catanzaro (Ribeiro) '11, NancyMarie DeLorenzo (Santora) M.S. '14, China Darin '13, Francesca Ronzitti '16, Pentz, Hochkeppel, Brian Marks '15 and Melissa Jaime (Weigand) M.Eng. '17.

ence/math-related courses so you are ready for the college pace. Always remember, *per aspera ad astra*: through difficulties, to the stars. I told my daughter that a Stevens education will be difficult but it will also take her places many others would never be prepared to go — to the stars.

Mark Cappers: Talk less, pay more attention. Learn to understand the difference between facts and conclusions loosely based on facts. Understand how to document good requirements. Don't take yourself seriously. Learn the lessons Bruce Lee put into *Circle of Iron*. Enjoy music and art and even "B-movies" (see above). Have fun. Work hard. Play hard. Learn to nap from cats. Learn to adore from dogs. Never confuse the important with the urgent. Watch and read: Jordan Peterson, P.J. O'Rourke, Douglas Adams, Tolkien, Heinlein, Asimov, Clarke, Pournelle/Niven, Harlan Ellison, Frank Herbert, and Vernor Vinge. Did I mention music — listen and play? Win the lottery if you can. If you were born an American, you won God's lottery. It's easy to be an atheist; it's also easy to be wrong. Learn the pitfalls of materialistic reductionism. Respect respectable things, stand up against evil. Understand evil does, in fact, exist. Fish or cut bait. Don't settle for weak coffee. Good luck and look both ways before you cross. See you on the other side.

Jeff Bergman '88: My best piece of advice is to base happiness on a fulfilling everyday life as opposed to what your W-2 says at the end of the year. Toward this end, I would advise to enter the college experience, and later the workforce, with an open mind. Many of us, particularly those at specialized schools (engineering, theater, nursing, etc...) believe that we already know exactly what career path we want to follow and take the most straightforward and narrow path toward that goal. I think remaining focused, but being exposed to different experiences and opportunities, is the best way to assure that one finds the path that is the best for them. If you're pre-med or engineering, take a few classes outside of your comfort zone or pursue a personal interest, such as art history, religion, philosophy or a language. You might find that your passion lies elsewhere or you might find that this broader knowledge base enhances your chosen career or provides you with a hobby or lifelong passion.

I was a pre-med who ended up majoring in organic chemistry because organic chemistry "clicked" one day and made sense. After going to grad school for chemistry and working in the pharma industry as a chemist, I became less in-

terested in doing science, so I switched gears and became a patent attorney. Never in my early life did I ever imagine myself being remotely interested in going to law school, but my interests and career goals changed and it was the best decision for me at the time. Upon working at major NYC law firms that paid quite well, I soon realized that an 80-hour work week was not for me; I was not

happy. I took a sizeable pay cut to move in-house as a patent attorney for less money and found the work-life balance that I was seeking, all while still having a rewarding and well-paying career. I have never regretted this move since I gave up money for one of the few commodities that money can't buy: time.

Big law, Wall Street, high-profile medicine,

Alex Cable M.S. '88, founder, president and CEO of Thorlabs, a photonics products manufacturer with world headquarters in Newton, New Jersey, was profiled in the July 3, 2018, story, "From HS dropout to CEO of his own global company," in the July 3, 2018, edition of *The Sparta Independent*, Sparta, New Jersey. The story focused on the growth of his company, which Cable founded in his Freehold, New Jersey, home in 1989 and has grown to an international company with manufacturing sites in the U.S., Germany, United Kingdom, Sweden, Japan, Brazil and China, with more than 1,500 employees worldwide. The company manufactures a broad range of photonics products targeting basic research as well as industrial and biomedical market segments. The story also chronicles Cable's journey from a challenging teenager who dropped out of high school and worked as a machinist and dishwasher and returned to study at Rutgers and Stevens. He worked for several years at Bell Labs for Steven Chu, before starting Thorlabs. The company is named after his beloved black Labrador retriever.

Oren L. Harris M.S. '97 has published, *The E.L.L.E.R. Model: Experiencing Long Lasting and Enjoyable Relationships*, a book on relationships developed from his Stevens thesis and now available on Amazon.com. He is also a lecturer and consultant.

Will Davis M.S. '00 joined the Betty and Milton Katz JCC in Cherry Hill, New Jersey, earlier this year and serves as coordinator of the organization's new STEM lab. An educational consultant focused on STEM (Science, Technology, Engineering and Math). Davis began his career as a computer programmer/analyst with New York Life Insurance, later worked with AT&T, taught honors high school physics and chemistry and was a chemistry instructor at Raritan Valley Community College in New Jersey.

Kenneth Podgorsek '05 M.S. '05 joined Wohlsen Construction Company as a project manager earlier this year. He has worked as an office engineer, cost control estimator, project engineer and project manager.

Joe Finora '10 M.S. '12 is a marine engineer diver with Jacobs in New York City. The Long Island, New York, native was featured in the "Vocations" column in the June 15, 2018, issue of *The New York Times*, where he discussed his job — which has included dives all around the world that have involved inspecting various structures, from a passenger ferry terminal to a marina's floating dock system to a petroleum terminal's off-loading structure. He has been within feet of whales and dolphins, and has encountered a shark and unexploded bombs, as well as some mysterious New York Harbor marine life, according to *The Times*. ♦

etc., all look great from the outside. Much like a nice tree, however, most of us only look at the pretty flowers, and never dig and inspect the not-so-attractive roots. Not everybody in those careers makes enormous sums of money and many are miserable and burned out because of the stress and time drain such careers involve. So, my best advice would be to follow your passion; don't choose a career based on compensation or prestige alone, and be open-minded and have the moxie to change paths if you find that the road you are currently on is no longer making you happy.

And there you have it. Wish I had some of that advice at 18 years old! Remember our 30th reunion is less than a year away! If you would like to help out in any way, big or small, please let me know and I will connect you with the right

person. Can't wait to see many of you! — Dawn M. Madak, dawnmadak@me.com

'13 An update from Caitlin Early: "I recently moved to Houston for a position at Ernst & Young within their Construction and Real Estate Advisory Services (CREAS) Practice."

Morgan Scalzi '13 married Andy Continisio '14 on Sept. 23, 2017, at Brooklake Country Club in Florham Park, New Jersey, and honeymooned throughout Italy following their wedding. The couple met through the co-op program when they both interned at L'Oréal USA in January of 2011, and currently reside in Pompton Plains, New Jersey.

Scalzi says, "We had a ton of alumni at our wedding and that day will forever be the best day

of our lives." — Armand R. Reyes, armandrookreyes@gmail.com; Julie Wilkerson, jwilkerson@stevens.edu

'17 Kevin Doherty is now a Ph.D. student at MIT and just won a 2018 NSF Graduate Research Fellowship. These are very prestigious and competitive fellowships that fund three years of graduate research.

Chris Mandalakis M. Eng.'17 was featured in the December 2017 issue of *Marine News*. Visit www.marinelink.com/magazines/marine-news/201712 to read the article. Chris, a naval architect and marine engineer, is a consultant and also works with Alternative Marine Technologies. — Trevor Batchelder, tbatchelder94@gmail.com



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

1 2 Morgan Scalzi '13 and Andy Continisio '14 were married on Sept. 23, 2017, at Brooklake Country Club in Florham Park, New Jersey. Several alumni were in the bridal party, including Lindsay Crossan '14, Jenna Blondina '12, Kim Baker '13, Danielle Zibrin '16, Sean Devlin '14, Matt Continisio '16, Joseph Cuozzo '14 and Eric Cortese '14. Many Stevens alumni and friends also attended. **3** Alex Sota '10 and Stephanie Sota '11 welcomed their first child, Adelyn, into the world on June 10, 2018.





The Stevens Northern California Alumni Club gathered for a wine tasting and a game of bocce at Sol Rouge Winery on Treasure Island, California, in June.

Northern California Club

The Northern California Alumni Club is a regional club located in the greater San Francisco Bay area. Alumni and friends meet up several times a year for various events focused around socializing, education and networking. Most recently, the group gathered at Treasure Island for a picnic and a game of bocce; see photo at the top of this page. The club's leaders are Evelyn Burbano-Koehler '98 M.S. '03, Bruce Eng '83 and Ryan Donovan '06. ❖



To learn about future Northern California Club events, or for more information on the SAA's other regional clubs and affinity groups, please email alumni@stevens.edu



Members of the Washington D.C. Alumni Club gathered on March 28 for a happy hour at La Tasca in Washington, D.C.



The Houston Club caught an Astros/ Yankees game on May 1 at Minute Maid Park in Downtown Houston. The Yanks blanked the home team, 4-0.

A Final Thought



Drew Capone '13, left, and a colleague work on an urban sanitation project in Maputo, Mozambique, this past summer, as local children look on.

PHOTO COURTESY OF DREW CAPONE

LESSONS CARRIED, MOZAMBIQUE

The most common question I received after returning from my service with the Peace Corps in Mozambique was “How was Africa?” or, similarly, “How was Mozambique?” to which I often gave the simple reply “Really big!” or “Great!” It was challenging to put my experience into words, and I am grateful for the people in my life who asked thoughtful questions, which helped me process my readjustment back to America.

For a heterosexual white male with a degree from Stevens, life in America can be very easy. Food, housing, transportation, employment and entertainment are all readily accessible. I love the comforts of living in America, but the Peace Corps challenged me to think about becoming a globally conscious individual.

The transition back to America was more difficult than I thought it would be. Things I took for granted before now felt like overindulgent luxuries. After 27 months overseas, I cried the first time I went into a New Jersey ShopRite. The aisles and aisles of countless goods for sale were overwhelming. I also experienced a difficult time reconciling my faith when I returned home; I had a panic attack my first time back inside the church I had previously attended. It was too much: too many lights, too opulent, too comfortable. The pastor seemed more like a rock star than someone who follows a homeless Jewish rabbi from 2,000 years ago. I knew there was something wrong with the dichotomy between life lived in Mozambique and America.

Good news for my friends in Mozambique is clean water, hygienic sanitation and sufficient rainfall so they can grow enough food. I was disappointed that the church I attended previously, which has good intentions about helping people, could at the same time fail to reflect how our lifestyle in America has real-world implications for those same people we claim to want to help. For example, climate change is causing the aridification of southern Africa, and without sufficient rainfall, subsistence farmers face

immense challenges to provide for their families.

Back at home, I felt a sense of shame at the accumulation of plastic bags in my apartment. I wondered why it was so easy to generate so much waste. It seemed counterintuitive that plastic bags should be free in America and expensive in Mozambique. Eighteen months later, I now try to be cognizant of my consumption; I minimize the single-use plastics I consume, research where my clothes are manufactured and purposefully live within walking distance of my work.

I am now pursuing a Ph.D. in environmental engineering at Georgia Institute of Technology. I enjoy thinking about big issues in the world today, and I’m thankful that graduate school and my faith community provide excellent opportunities to do so. I am interested in how water, sanitation and hygiene impact public health, especially for marginalized and vulnerable populations. As a student at Georgia Tech, my research has taken me to the streets of Atlanta where I surveyed open defecation by people experiencing homelessness, and back to Mozambique this past summer, where I am working with the Mozambican National Institute of Health on a project that studies the impact of an urban sanitation intervention on children’s health. In the future, I would like to teach at a U.S. university and lead a research group that combines environmental engineering and public health, with a focus on low-income and marginalized groups.

The Peace Corps was an incredible experience, and I am very thankful for the opportunity I was given to learn from my community and experience life in a different culture. Mozambique now acts as another lens through which I view the world, and to me that is priceless. ♦ — Drew Capone '13

(Editor’s Note: Drew Capone '13 served in the Peace Corps from September 2014 to December 2016. He was profiled in the Summer/Fall 2016 Stevens Indicator.)

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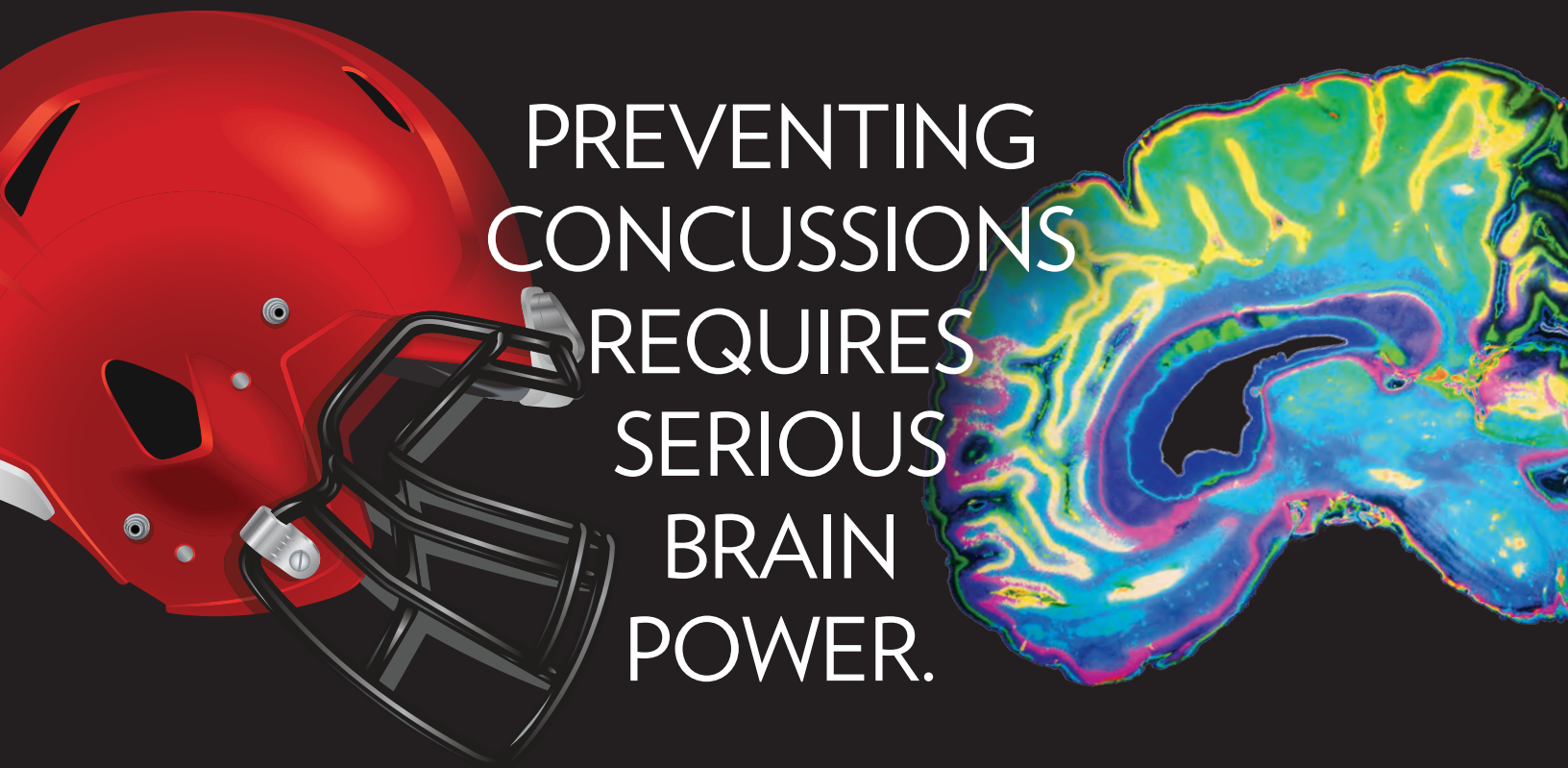


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