



Webb News

WEBB INSTITUTE MAGAZINE | FALL 2020/ SPRING 2021 | VOL. 33



CAMPUS IS OPEN!

We look forward to seeing you at one of our upcoming events!



11 *Webbies team up to work on the* **USNS Mercy**



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FALL 2020/ SPRING 2021 | VOL. 32

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MISSION STATEMENT

To inspire and educate tomorrow's leaders in an extraordinary learning community focused on engineering and design in the marine field.

Webb Institute:

- ✦ Provides a rigorous education in the principles of engineering and the fundamentals of naval architecture, marine engineering and related marine technologies;
- ✦ Develops skills that will enable graduates to become leaders in, and make significant contributions to, their chosen profession and the wider community;
- ✦ Instills in graduates the highest ethical standards and sense of professionalism;
- ✦ Cultivates curiosity in the arts, sciences and humanities, and provides the background and encouragement necessary to support lifelong learning; and
- ✦ Perpetuates the values of William H. Webb.

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R. Keith Michel '73
President

Message from the President: *Turning the Corner*

I write this message as I begin my final year as Webb's president. It has been a wonderful journey. Thank you for your continued support!

As we emerge from the 2020-21 academic year and prepare for the fall semester, it is time to give thanks to all those who have made the past year such a success. For both the fall 2020 and spring 2021 semesters, we were able to bring all our students back to Webb. Having everyone on campus during the pandemic meant extra work for faculty and staff. Additional tasks included keeping the facilities sanitized, packaging meals in lieu of our customary buffet style service, administering COVID tests on campus, daily screening of students and staff, and so on. Everyone at Webb rose to the occasion. Faculty seamlessly transitioned to online teaching and then back to in-person classes, initially within the large work studios in the Couch Academic Center and more recently to our new lecture rooms. While some staff worked from home, those on campus took on extra responsibilities related to the pandemic. The students were extraordinary – adhering to the health and safety protocols while continuing to make the most of their academic experiences and student life. Overall, it was a very successful year. None of our students or staff contacted COVID on campus. We graduated 22 seniors, recruited 28 highly qualified freshmen, and look forward to having 105 students on campus in the fall!

Webb students quickly recognized that the vaccine provided the path back to normalcy at Webb. Within weeks of becoming eligible, 98% of our students were vaccinated. By early June, we were able to shed our masks and relax safe-distancing requirements. And then came Commencement Day. How sweet it was to have guests on campus and to see the smiling faces of our graduates and their families. Webb finally did seem normal again.

In the fall, we look forward to returning to a full schedule of intercollegiate sports and other off-campus activities. Construction projects will be largely completed.

Recently completed projects include the conversion of STH classrooms to dorm rooms, installation of ADA compliant elevators in STH and Rosenblatt Gallery, renovation of the pier, and restoration of our athletic facilities at Thorpe Field.

Webb's operating costs are predominantly covered by three revenue streams: the annual fund, room and board fees, and draws on the endowment. We have made steady progress on reducing the draw on the endowment over the last five years, by controlling expenditures and growing the annual fund. Although we fell a few dollars short of our FY21 fundraising revenue goals, considering the headwinds of COVID and the economy, we did quite well. Once again, over 70% of our alumni contributed to the annual fund. Thank you for your generosity! In the past year, Webb and our students have also been beneficiaries of CARES Act and American Rescue Plan stimulus funding. Bolstered by the strong stock market performance, we have emerged from the pandemic with strengthened financials.

We look forward to welcoming alumni and friends to campus this fall. Scheduled events include the Class of 2020 Commencement on September 18, Family Weekend on September 24-26 highlighted by the freshman boat competition that Sunday, the Heritage Society dinner on October 22, and Homecoming on October 23. In a departure from tradition, we will host the Alumni Association Annual Banquet at Webb on the evening of October 23rd. For those attending the SNAME Annual Meeting the following week, an informal Friday night dinner in Providence will be arranged.

In early 2022, the Webb Alumni Association is organizing a series of regional meetings throughout the nation and in Europe. Dean Werner and I look forward to seeing many of you at these meetings. You will be apprised of dates and locations for these regional meetings once venues are arranged.



The Class of 2021 **Celebrating on Campus**

On Saturday, June 12th, Webb Institute awarded 22 Bachelor of Science Degrees at the 125th Commencement Ceremony.

This was the first in-person event Webb has held since the Covid-19 pandemic brought us to our knees. Social distancing and other safety protocols were involved, but spirits were high.

The event began with rising sophomore, Miguel Sanchez '24 playing the national anthem on the trumpet. The invocation, welcome, and opening remarks were made by Pastor Dave Collins '73, Chairman of the Board Bruce Rosenblatt (Hon), and President Keith Michel '73.

The keynote speaker and Honorary Degree recipient, Katherine "Karrie" Trauth, Head of Shipping and Maritime for Shell in the Americas, made an inspiring speech with the key message of "Think big, start small, and act now." This slogan helped her to collect like-minded people in the marine industry and to create the Blue Sky Maritime Coalition. This coalition's sole purpose is "finding meaningful actions to reduce carbon emissions and changing the footprint of the shipping industry." Ms. Trauth asked the graduates to put her message to everyday use when faced with a monumental challenge.

Additional remarks were made by the Class of

2021's Student Speaker, Hank Rouland, who spoke about the tremendous achievement of receiving a degree from Webb and noted that "your work at Webb has ended, but the amazing work for which the graduates of this school are renowned, has just begun."

This summer, the Class of 2021 will spread out across the globe to begin their professional careers. Notable employers include: NASSCO, BMT, Glosten, Elliot Bay Design Group, and Bruce S. Rosenblatt & Associates.



Student Speaker, Hank Rouland, addressing the audience.



Chairman of the Board Bruce Rosenblatt (Hon.), Katherine Trauth, President Keith Michel, and Dean Matthew Werner in front of the William H. Webb statue.

-- POST-GRADUATE PLANS --

Jack Becker	Boks Marine Design
Alexander Bidwell	Excelerate Energy
Oscar Como	Michael Peters Yacht Design
Ian Cosic	Elliott Bay Design Group
Daniel Desio	Carderock Combatant Craft Division
Dillon Esposito-Kelley	NASSCO
Ryan Flanagan	Herbert Engineering
Max Haland	BMT
Sean Healy	Einhorn Engineering
Luke Herbermann	Northern Shipping Funds
Benjamin Hunt	Glosten
Inga Johansson	Colonna's Shipyard
Jackson Juska	World Race 11-Month Christian Mission Trip
Alexander Koziol	Glosten
Addie Lindyberg	Viking Systems
Shannon Liu	Undecided
Robert Maes	Brunswick Boat Group Technology Center
Maggie Maguire	DLBA
Henry Rouland	Undecided
Bret Sharman	NorthStar Midstream
Lina Tenenbaum	International Seaways
Cross Weeks	Bruce S. Rosenblatt

-- AWARDS --

— TOTAL PERFORMANCE —

CHAFFEE MEMORIAL PRIZE

Lina Tenenbaum
for general excellence
{Sponsored by Trustee Joseph J. Cuneo '57}

— LEADERSHIP AND ETHICS —

PATRICK S. MATRASCIA GOOD SHIPMATE AWARD

Jackson Juska
for working unselfishly and in harmony with classmates
{Sponsored by President R. Keith Michel '73 & Family}

THE CHARLES KURZ II (Hon.) COMMUNITY SERVICE AWARD

Jackson Juska
for exemplary commitment of service to others through
volunteerism, community service, and civic outreach
{Sponsored by Charles Kurz II (Hon.)}

PAUL E. ATKINSON MEMORIAL PRIZE IN ETHICS

Henry Rouland
for demonstrated commitment to ethics
{Sponsored by Paul E. Atkinson Memorial Fund}

— ACADEMICS —

J. LEWIS LUCKENBACH MEMORIAL PRIZE

Maggie Maguire
for highest average in four-year course
{Sponsored by the American Bureau of Shipping}

CHARLES A. WARD, JR. MEMORIAL AWARD

Maggie Maguire
for excellence in naval architecture
{Sponsored by Chairman of the Board, Bruce S. Rosenblatt
and the Ward Family}

JENS T. HOLM '41 MEMORIAL AWARD

Benjamin Hunt
for excellence in marine engineering
{Sponsored by George A. Gilmore '57}

KEELER MEMORIAL PRIZE

Benjamin Hunt
for excellence in mathematics
{Sponsored by Trustee, Dr. Luther Tai}

RICHARD A. PARTANEN HUMANITIES AWARD

Lina Tenenbaum
for excellence in humanities
{Sponsored by Chairman of the Board, Bruce S. Rosenblatt}

CURRAN MEMORIAL PRIZE

Alexander Bidwell
for most outstanding and consistent improvement
{Sponsored by Trustee and Mrs. John A. Malone '71}

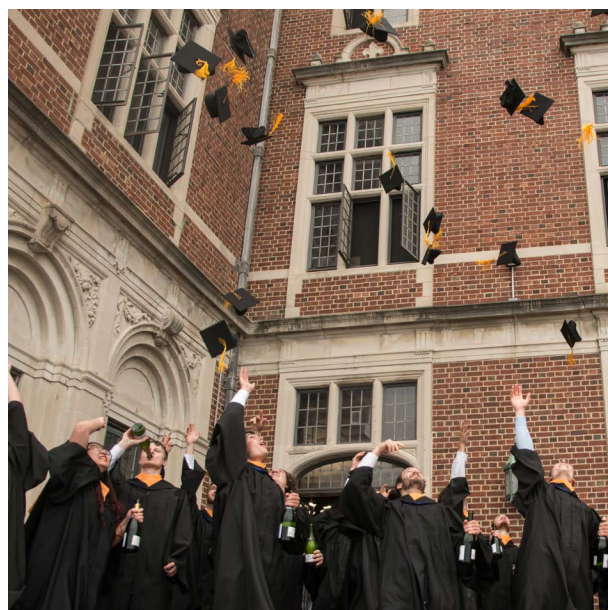
— THESIS —

STEVENSON TAYLOR MEMORIAL PRIZE

Jack Becker and Maggie Maguire
for excellence in the senior thesis
{Sponsored by the American Bureau of Shipping}

LEWIS NIXON MEMORIAL PRIZE

Benjamin Hunt and Alexander Koziol IV
for excellence in the senior thesis
{Sponsored by Trustee Emeritus John W. Russell '67}



-- THESIS TITLES --

Jack Becker and Maggie Maguire	The Effect of Shape Change on the Added Mass Generated by an Axisymmetric Body
Alec Bidwell and Oscar Como	An Investigation of Transom Stern Flow: An Evaluation of the Impact of Transom Radius
Ian Cosic and Cross Weeks	USCG <i>Lilac</i> Renovation: Developing a Plan to Carry Passengers on a Historic Lighthouse Tender
Daniel Desio and Lina Tenenbaum	Airport Ferries: Feasibility Study and Concept Design of a New York Airport Ferry
Dillon Esposito-Kelly and Bret Sharman	Simulated Optimization and Feasibility of a Thermoacoustic Engine in the Marine Environment
Ryan Flanagan and Inga Johansson	The Design and Validation of the Equations of Motion of a Point-Wave Energy Converter Buoy
Max Haland	Design and Testing of Navigation Software for a Small Autonomous Surface Vessel
Sean Healy and Luke Herbermann	The Viability of Compressed Natural Gas as Fuel: The Installation and Emissions Testing of a Dual-Fuel System for an Electronically-Timed High-Speed Diesel
Ben Hunt and Alex Koziol	Metaheuristic Algorithms in Concept Design: Optimization of Marine Electrical Systems
Jackson Juska and Addie Lindyberg	Ride the Wind: A Seakeeping Study of the Gyroscopic Effect of the Wind Turbine Rotor on a Moored Tension-Leg Platform
Shannon Liu	A Preliminary Design of a Navy Hospital Ship to Include Epidemic/Pandemic Rapid Response
Robert Maes and Henry Rouland	An Experimental Analysis of the Effect of Moonpool Recess Geometry on Added Resistance



Thesis posters, descriptions, senior spotlights, and presentations are available at:
www.webb.edu/academics/class-of-2021/

NEW TRADITIONS

Introducing the Webb Commencement Scroll

by Jamie Swan, Engineering Laboratory Technician – Machinist



It is customary for the leader of an academic commencement procession to carry a mace; the tradition goes back to medieval monarchs who would be preceded by a bodyguard, carrying a weapon. Today the mace is a symbol of the power and authority of the academic institution.

At Webb, instead of a mace, our processional leader has carried a ship's speaking trumpet, a megaphone that would be used by the captain of a sailing ship to communicate directions to sailors who would be aloft, manipulating the sails.

Normally, a speaking trumpet would be made of brass, but Webb's trumpet was an elegant ceremonial version that was fashioned of sterling silver and presented to the captain of the William Webb ship *Comet* in 1861. Sadly,

Webb's trumpet has mysteriously gone missing, so we were in need of a replacement.

Although it is possible to purchase a ceremonial mace, someone suggested that it might be nice if Webb fabricated something in-house, so our resident machinist, Jamie Swan, was asked to see what he could do.

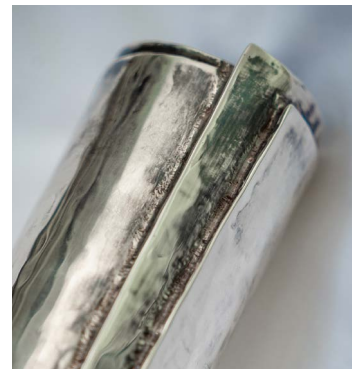
Jamie questioned the appropriateness of the mace and wondered if he could come up with something that had greater meaning to the Webb community. The portrait of William Webb that hangs in the Visconti Reception Room depicts Mr. Webb standing by his drawing board, holding a rolled-up set of plans to build a ship.

Having no artistic training, Jamie Swan was inspired to try to make a sculptural facsimile of the rolled up plans out of sheet metal. After making several prototypes, Jamie executed the final iteration and delivered it to Pat Martimucci, the owner of Nassau Chromium Plating Company, Inc., who graciously offered to silver plate the sculpture free of charge. So, Webb Institute again has a ceremonial graduation symbol and a tribute to our founder, William H. Webb.



Left: Jamie Swan holding the scroll he created next to the William H. Webb statue.

Below: Details of the scroll.



HOW MANY WEBBIES DOES IT TAKE...

11 Webbies team up to work on the USNS Mercy

by T.J. Brackin '16



Gabriel Allen '23 and Eric Heilshorn '23 in front of the Mercy's boiler.



The BSR Team. (Not pictured, Andy Thompson '15). From Left to Right - Cross Weeks '21, Eric Heilshorn '23, Gabe Allen '23, T.J. Brackin '16, Rocky Regan '20, L.J. Bock '20, Mike DeNapoli '20, Harrison Tack '20, Mary McGuinness '20, and Blake Loncharich '19.

The past year has brought more surprises than any of us could imagine. For many of us, work transitioned to something done from the comfort of our living rooms, rather than in our offices. But for some of us, call us the lucky few if you'd like, our work can't always be done from home.

This is particularly true when that work includes visiting a ship. In February of this year, a team from Bruce S. Rosenblatt & Associates, LLC (BSR) performed a Deadweight Survey and Inclining Experiment of the hospital ship USNS *Mercy*. The *Mercy* is one of two hospital ships owned by the U.S. Government. Many of you probably saw news stories about the *Mercy's* trip to Los Angeles to serve as a hospital during the early days of the pandemic. Considering the audience of this article, I suspect that many of you know what I mean when I say "Deadweight Survey and Inclining," but I'll give a brief overview just to be safe. The term "deadweight survey" describes the process of inspecting every space aboard a ship, and cataloging the contents – the weight and location of each item – of that space. This, as you

might imagine, is rather time consuming. Then there's the inclining, which involves moving a series of very heavy weights back and forth across the ship to measure the ship's stability. Combined, we call these two events a Stability Test.

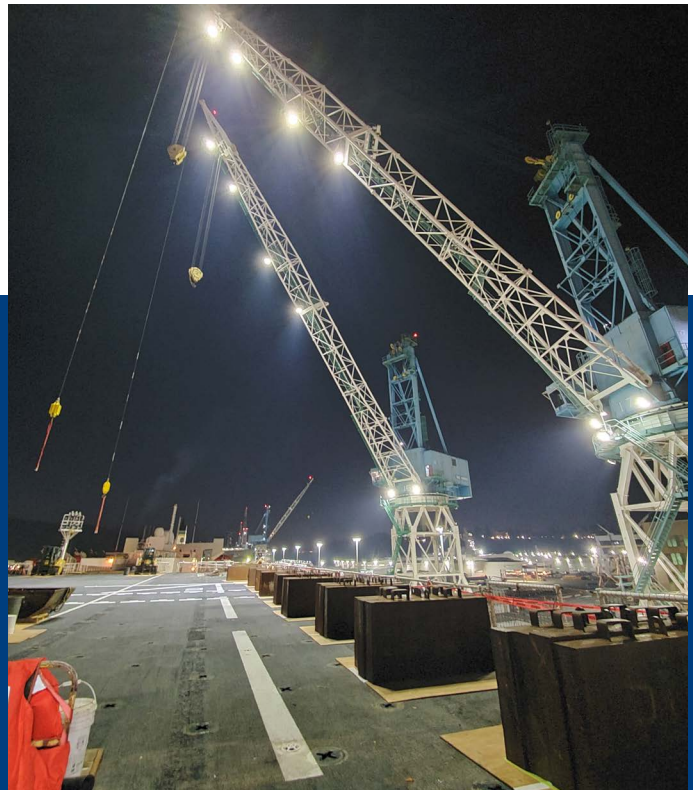
For any ship, a stability test requires a lot of effort. But for a ship the size of the *Mercy*, "a lot" doesn't even begin to cover it. The *Mercy* can carry more than 2,200 people at full capacity, and at 894 feet, is one of the largest ships the U.S. government owns. So, as you might imagine, BSR needed a little help to pull off such a massive undertaking. Fortunately for us, the timing of the stability test coincided with the Winter Work Term at Webb. Of course, BSR and Webb are certainly not strangers. At the moment, BSR has eight recent graduates on its staff: Andy Thompson '15, T.J. Brackin '16, Blake Loncharich '18, L.J. Bock '20, Mary McGuinness '20, Rocky Regan '20, Harrison Tack '20, and Mike DeNapoli '20. For the *Mercy* task, BSR's staff was bolstered by three current Webb Students: Cross Weeks '21, who will be joining the company post-graduation; Gabe Allen '23; and Eric



Above: The team reporting to work that day.

Upper Right: Ready to start the test - here you can see the weights and the cranes used to move them during the stability test.

Right: A view of the vessel from the river during the stability test.



Heilshorn '23, bringing us to a grand total of 11. Together, this unprecedented concentration of Webb talent tackled the *Mercy* Stability Test.

At this point, I'm hoping I've convinced you just how much effort went into this endeavor, but just in case you don't believe me, I have some numbers to help make my case (in true engineer fashion). The first number is time spent. All in, the BSR team spent a combined 176 working days aboard the *Mercy*, which works out to more than two weeks per person. In that time, the team surveyed 842 different spaces aboard the ship. We documented everything from toilet paper to CPR dummies to spare electric motors. If it was aboard the ship we surveyed it, and in some cases, we even surveyed things that weren't on the ship. When all was said and done, the BSR Team had surveyed 2,020,480 lbs. of weight aboard the *Mercy*. For comparison, that's approximately the weight of five Boeing 747 airliners. Suffice to say that all of us were pretty exhausted by the time we got back to the hotel each evening!

Then there's the inclining. We had to coordinate with the ship and shipyard to have huge steel weights brought aboard, have tugs available to maneuver the ship away from the pier, cranes to move the weights during the test, and a small boat in the water alongside to take draft readings. Data collection stations had to be set up. And we had to have mother nature give us a calm weather day. Somehow, after months of planning, the test was successfully completed.

But, in true Webb fashion, we made sure we weren't too tired to have one or two socially-distanced social gatherings while we were there as well. Despite having a team that spanned almost a 10-year range in graduating classes, there's something about the Webb family that binds us and made the experience feel like we'd all known each other for years. I'm sure I speak for the entire team when I say that it was an experience we won't soon forget!

Another Record Year for Webb Admissions

Despite the COVID-19 Pandemic!



by Lauren Carballo
Director of Admissions & Student Affairs

This year, the COVID-19 pandemic upended the world of college admissions, forcing colleges to reimagine and reinvent their admissions processes, which for many colleges had seen few changes in the prior 50+ years. Even more challenging is that this process had to be reinvented in just a couple of months during continually uncertain times. Below, I have included a list of some of the challenges faced by Webb in the recruitment and evaluation of applicants for the Class of 2025 because of this pandemic. You will quickly see that the common thread as each challenge was tackled was the continual support of the Webb family, for which I have never been more grateful. Although current students, faculty, staff, and alumni were facing challenges of their own during this pandemic, the impressive number of those who volunteered their time to assist with the recruitment and evaluation of these students left me in complete awe. There is no doubt that this support contributed to the success of our department this year, as we are happy to report that even given these challenges, for the third year in a row a record-breaking number of prospective students applied for admission to Webb, representing an 11.2% increase over last year's record pool (Figure 1). The record-breaking number of applications also

resulted in a record-low acceptance rate, as seen in Figure 2. This year, only 17.6% of students who applied to Webb were admitted, and even more impressive is that Webb continues to be among a small and select handful of colleges in the country with a yield rate of over 70%, meaning that over 70% of those who are accepted to Webb ultimately choose to enroll and join the Webb family.

This fall, Webb looks forward to welcoming 28 impressive and resilient students to the Webb family. Academically, they are an exceptional group with a long list of accomplishments and passions that we hope they bring with them to Webb. Even more impressive is that many of these applicants struggled with the impacts of the pandemic--the death of a parent, relative, neighbor or friend, changes in their financial situations after a parent became unemployed, adapting to a new learning environment as classes went remote, and so on--and even so, continued to shine. This class also includes a record number of women—nine! We look forward to getting to know the Class of 2025 as well as embarking on some new and exciting recruitment efforts, as we turn our sights to the Class of 2026 and beyond.

FIGURE 1

TOTAL NUMBER OF APPLICANTS TO WEBB

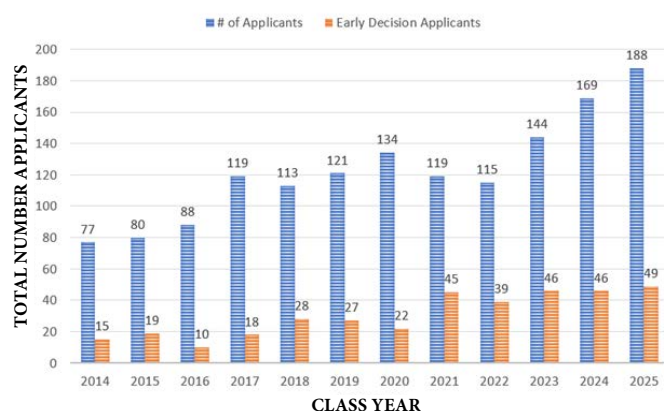
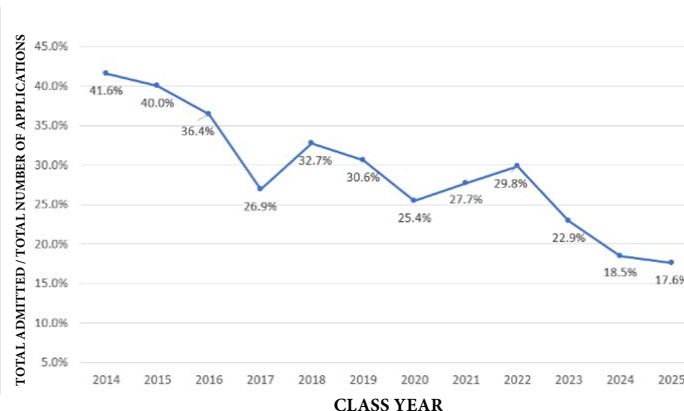


FIGURE 2

ACCEPTANCE RATE AT WEBB



Examples of Some of the Challenges Faced throughout the COVID-19 Pandemic:

Limited Campus Visits:

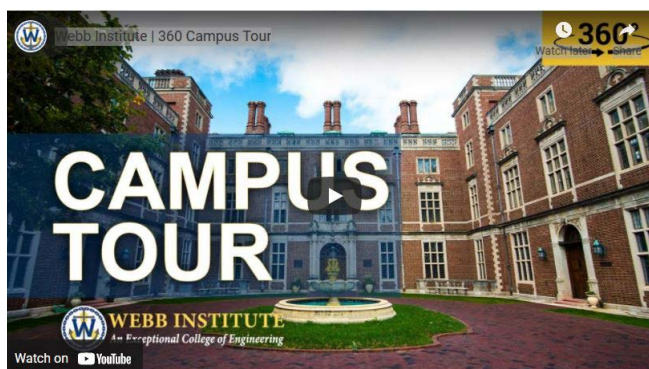
Campus visits, which have been a staple in the college search process, were cancelled or limited at many colleges and universities because of the pandemic. Webb, like many colleges, chose to cancel our annual Fall Open House; however, given Webb's small size, the Office of Admissions and Student Affairs was able to offer limited, individual, in-person tours of campus as COVID-19 numbers and New York State's travel restrictions allowed. Even so, there were families who could not visit or who did not feel comfortable traveling because of the pandemic. The Office of Admission and Student Affairs in collaboration with the Media Relations and Communications Department therefore developed a 360° virtual tour as well as a WEBBinar series to bring the Webb experience to prospective students virtually. Students and alumni also volunteered their time, emailing or speaking with prospective students about their Webb experience and providing virtual information sessions to their local high schools. All students who were accepted to the Class of 2025 were contacted by a young alumnus/a through Webb's Alumni Outreach Program and were given the opportunity to sit in on a virtual class or Monday Lecture. In the end, approximately a quarter of the Class of 2025 committed to Webb without setting foot on campus.

No Webb Overnight Prospective Freshman Finalist Visit:

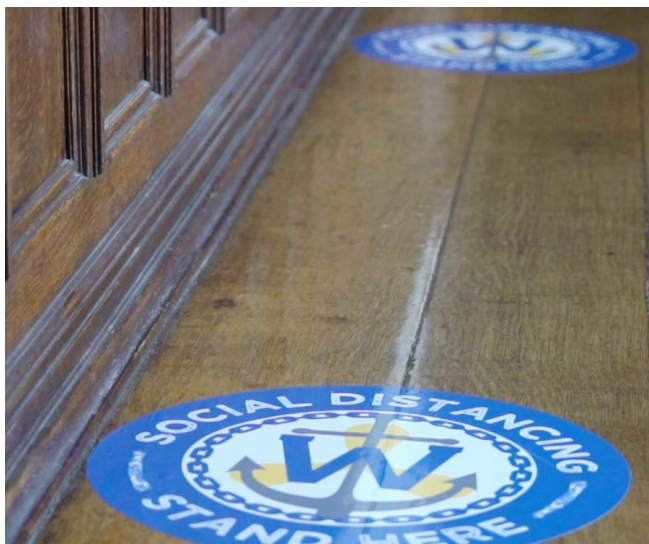
Webb typically requires all finalists in our admissions process (approximately 60 in total) to participate in an overnight Prospective Freshman Finalist Visit, a unique and mandatory 24-hour experience during which the Admissions Committee is able to interview and better know each finalist as each finalist gains a better sense of the Webb experience. Given the insight that this visit provides both to Webb and the applicant, this process was one of the most challenging to reimagine; however, Webb made the difficult decision to convert this process to a virtual format, which included four virtual interviews, each of which was conducted by a member or members of the Webb community—the President, a faculty member, the Office of Admissions and Student Affairs, and a group of three to four current Webb students. In total, 2/3 of the current student body participated in this interview process, with five students completing ten or more interviews.

Limited Standardized Testing:

Because of the pandemic, many K-12 schools began closing in mid-March of 2020, when many high school juniors typically sit for their first SAT or ACT. Because finding a testing site in the following months was near impossible in many states, many in the Class of 2025



Above: The campus tour video is available on Webb's YouTube Channel. Below: Social distancing dots used for the dining room.



were unable to sit for an SAT or ACT, which had been an application requirement at Webb and many other colleges in years prior. Webb, like many selective colleges, chose to waive the SAT or ACT requirement for the Class of 2025 and in the end, 40.4% of the applicant pool were unable to take an SAT or ACT. Of those who were able to take an SAT or ACT, many of them were able to take it only once, typically early in their junior year. I am proud to report that Webb was already at the forefront in developing a different way to evaluate students. Since 2015, Webb has required students to take an internal assessment in math and writing, which has been continuously improved since its first administration by members of the Webb faculty. An analysis of the results over this time shows a stronger correlation between students' first-semester GPA and their Webb Assessment scores than with their SATs/ACTs scores. In the end, of those accepted to Webb's Class of 2025, 1/3 did not submit an SAT or ACT, but showed promise on Webb's internal assessments. The Office of Admissions and Student Affairs looks forward to analyzing the success of students in the Class of 2025.

Furthermore, whereas in the past students supplemented their application by submitting an AP score, taken in May of their Junior year, the pandemic threatened students' ability to do so. While AP exams were shortened and shifted to a virtual format, its administration included several glitches, and many students were ultimately unable to take the assessment.

Changes to High School Curriculums, Schedules, Grading Methodology:

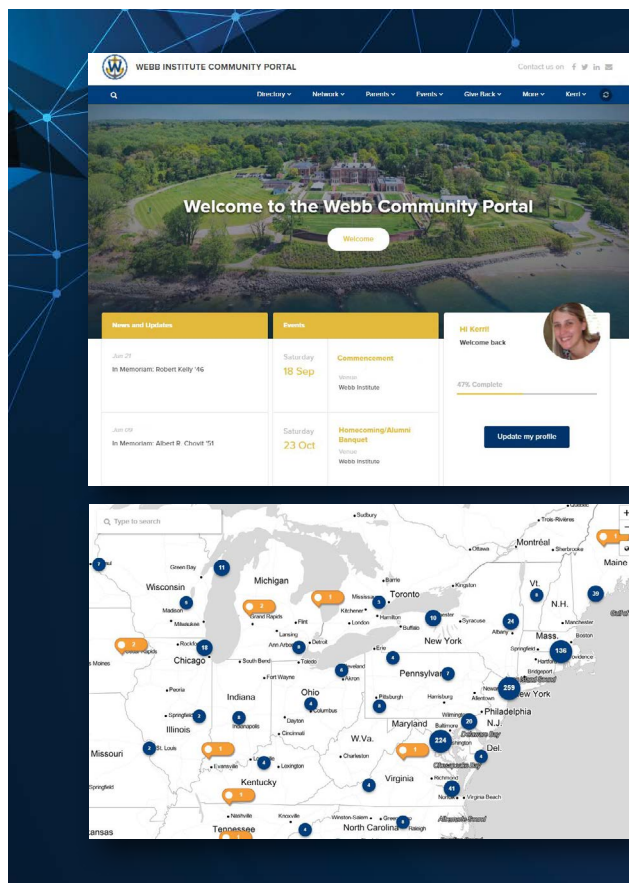
Colleges recognized early on that applicants for the Class of 2025 would look very different from those in prior years. Many high schools altered their curriculums, schedules, or grading methodology because of the pandemic. This meant various changes ranging from higher-level courses or electives being cancelled to changes in learning formats, including schools going remote (including labs!) or adopting a hybrid model, to numerical or letter grades being converted into "pass" or "fail." Luckily, Webb's holistic and thorough process allowed the Admissions Committee to delve further into each transcript by calling high school counselors and interviewing the students. Even so, it is important to note that there were limitations to this, and we may not fully understand the impact of this pandemic on student learning until next academic year. Faculty are preparing to fill any possible gaps in their education.

Changes to Students' Extracurricular Activities:

For many students, the end of the junior year typically marks when students are voted into leadership roles in clubs and athletic teams in preparation for the graduation of the senior class. Unfortunately for many, several clubs and teams were cancelled in the 2020-2021 academic year, while others had to be reimagined virtually. This move affected students' resumes, and the Admissions Committee had to find other ways to gauge involvement, passion, and leadership through the interview process and letters of recommendation.

Effects on Yield:

For many prospective students, not being able to visit colleges and not knowing how their application would fare within these new admissions processes increased their anxiety about getting into colleges. Because of this, it was unsurprising to many when Common Application reported that prospective students were, on average, applying to more schools. Many colleges feared this would influence their yield rate (the number of students who enroll divided by the number accepted), and while Webb's was impacted slightly (going from approximately 80% to 70%), Webb maintained one of the strongest yield rates in the country.



Stay Connected with the COMMUNITY PORTAL



<https://community.webb.edu>

Discover local Webbies using the interactive map
Mentor current students or fellow alumni
Stay current with the happenings at Webb
Share or Promote local events
Post or Find job opportunities
Share photos

OPEN TO: Webb Alumni
Current Students
Parents of Alumni & Students

QUESTIONS/COMMENTS:

Contact Kerri Allegretta at kallegretta@webb.edu

ON STUDENT AFFAIRS

THE "NEW NORMAL"

*by Marissa Alperin,
Assistant Director of Admissions & Student Affairs*



This year has brought about many challenges nationwide, but through it all, our Webbies have persevered. Students were welcomed back to campus for the fall and spring semesters and readily followed all COVID protocols. Our Webbies showed tremendous responsibility while completing their education and making the best of their experiences on campus, meeting with our Office regularly to continue making improvements to the campus while dealing with the various changes brought on by COVID. Despite it all, and with the help of our community, Webbies had a successful year filled with new activities, traditions, and events. Webbies also enjoyed the new Couch Academic Center, which allowed for classes to be held in person during the pandemic.

Founder's Day was a success! Various projects were completed to improve the Webb campus. We even got to paint our new Merchandise Store (the former Couch Computer Lab), which we hope to officially open soon. Dr. Stein's Group Experience Program started off virtually but transitioned to in-person sessions. The Brocket Arms Pub received extensions to other locations on campus to allow for social distancing and welcoming of the Webb community. The annual Gatsby Party was among a few of our campus events; students engaged in some activities outdoors including playing croquet as well as enjoying the wonderful music selection performed by Max Mah '24 in addition to dancing...which lasted late into the evening. Our new chef, Chef Dave, cooked some amazing meals, including a fabulous surf and turf dinner for Gatsby. Outdoor movie nights became a hit! Webbstock, although smaller than most years and closed to visitors, was filled with inflatables, wonderful barbecue food, and performances by the Jazz band and various other internal bands... even featuring our faculty and staff!

One of the greatest highlights of 2021, was our student participation in clubs and activities. Although COVID changed Webb policies, our students were involved. As our Office continues to develop processes for club recognition and encourage participation in existing and new clubs, I am happy to announce that this year alone,



Marissa painting the Merchandise store with students during Founder's Day.

Webb currently has twenty-eight recognized student-run clubs on campus: 96% of our students are involved in at least one club, with 86% of students being involved in more than one club. To top that off, 46% of our students participate in five or more clubs, with 10% of our students participating in ten or more club. Incredible, right?

Our Webbies are leaders who inspire, and their participation in the community is evident. Of those who participate in clubs and activities, 35% of those students are club leaders in addition to the various roles they have in the Student Organization and committees they lead. Unfortunately, because of the COVID pandemic, many of our intercollegiate sporting events were cancelled and/or postponed until next year, but our Offshore Sailing team was active and competed in various regattas! We hope to continue our intercollegiate athletics once again in the fall! Be sure to check out our website to see a full list of clubs and sports that our students participate in. We thank you for your continued support that has allowed our students to celebrate and enjoy their Webb experience during these unforeseen circumstances. We are excited to kick off the summer with anticipated activities ahead, and we hope to welcome the Class of 2025 on campus for an in-person orientation led by our great staff of nine orientation leaders from the sophomore and junior classes.

The Class of 2025

MEET THE NEW WEBBIES



13



STATES/TERRITORIES ARE REPRESENTED

CA, KS, MA, MD, NJ, NY, OH,
OR, PA, VA, VI, WA, WI

32%

IDENTIFY AS **FEMALE**

A Record for Webb!

21%



RECOGNIZED AS **EAGLE SCOUTS** OR
GOLD AWARD RECIPIENTS



86%

ARE INVOLVED IN
ATHLETICS

68% participated in a water sport or activity. The most popular include sailing (32%), boating (25%), swimming (25%), SCUBA diving, free diving, kayaking, canoeing, fishing, wakeboarding, whitewater rafting, water polo, paddleboarding, knee boarding, and surfing

10

DIFFERENT **SPORTS**
ARE REPRESENTED



cross country (4), golf (4), soccer (3), track and field (3), skiing (3), tennis (3), ice hockey (2), weightlifting (1), lacrosse (1), and baseball (1)

32%

PLAY A MUSICAL
INSTRUMENT



Violin, voice, piano, recorder, ukulele, guitar, bassoon, flute guitar, piano, trumpet, drums, marimba, flute, tenor saxophone

29%

PARTICIPATED ON A
ROBOTICS OR **BRIDGE**
BUILDING TEAM

36%



HAVE ALREADY BUILT,
RESTORED OR TINKERED
WITH A **BOAT!**



Message from the Dean:

MOVING FORWARD



Matthew R. Werner '95, PG'97
*Dean and ABS Chair of Naval
Architecture & Marine Engineering*

With the challenges of the last 15 months hopefully behind us, it is back to the to-do list that sat on my desk in early March 2020. Much of that list had its origins in Webb's current Strategic Plan that was approved by the Board of Trustees in the Fall of 2019. This plan was ambitious in many areas; unfortunately, COVID eroded some of the faculty's early momentum on the many tasks. As Webb emerged from lockdowns and remote instruction, the faculty returned to the important work of improving Webb's unique academic program.

Having completed Middle States Commission on Higher Education and ABET accreditation over the last two years, the Webb faculty are moving forward with plans to improve and enhance Webb's academic program. This endeavor includes a comprehensive curriculum review and an evaluation of all academic related activities and program requirements. The faculty has been directed to take a "clean-sheet" look at the curriculum while seeking to improve the program's effectiveness and efficiency while incorporating new and emerging topics. The faculty will seek to balance covering the broad fundamentals of naval architecture and marine engineering while adding emerging topics such as sustainability, alternative powering solutions, and autonomy, all within the constraints of four years and 146 credits. The goal is to have the revised academic program designed by the summer 2023. Along the way the faculty will be engaging with Webb's stakeholders and seeking input from our Industry Advisory Group, members of industry and academia, and our students.

COVID struck just as we were moving the academic program into the Couch Academic Center and, unfortunately, some of the final outfitting of the building

was put on hold as we managed the new educational landscape. The Innovation Lab is the last major space that remains unfinished. This lab is envisioned as a facility that will permit students and faculty to build, create, experiment, and innovate as part of a course, a thesis, an independent study, or in pursuit of a personal passion. Outfitting will include workstations, dedicated project space, hand tools, benchtop equipment, and project storage. When completed, the Innovation Lab will be an exciting addition to Webb's suite of labs and shops.

Academic success at Webb results from the dedication and hard work of both students and faculty members. While new students are brought in every August, faculty additions are less frequent. This year Webb will be looking to hire up to two new faculty members. Finding dedicated and passionate educators committed to undergraduate education and Webb's mission will be critical to Webb's continued success over the next decade and beyond. Webb is committed to casting a wide net for potential faculty members with the hope of finding candidates that can augment the Webb community for years to come. The small size of Webb's faculty requires that all candidates are carefully vetted to gauge their suitability for the academic program and what they can add to the Webb family. I welcome any nominations or introductions that the Webb family can provide in support of this important effort.

Three major activities on top of our "day jobs" seems about right for Webb's return to normal operations. We would not want it any other way. I look forward to seeing the Webb family members in person again this coming academic year to discuss these and the many other ongoing activities that continue to make Webb a great place to be.

THE IMPACT OF WEBB SCHOLARSHIPS



by Anthony R. Zic and Lauren M. Carballo

Thanks to the generous support of the Webb family, every Webb student is fortunate to benefit from a gift of a lifetime—a full-tuition scholarship to one of the premiere undergraduate academic programs in the nation, yielding 100% job placement and one of the highest starting salaries of any college, year after year.

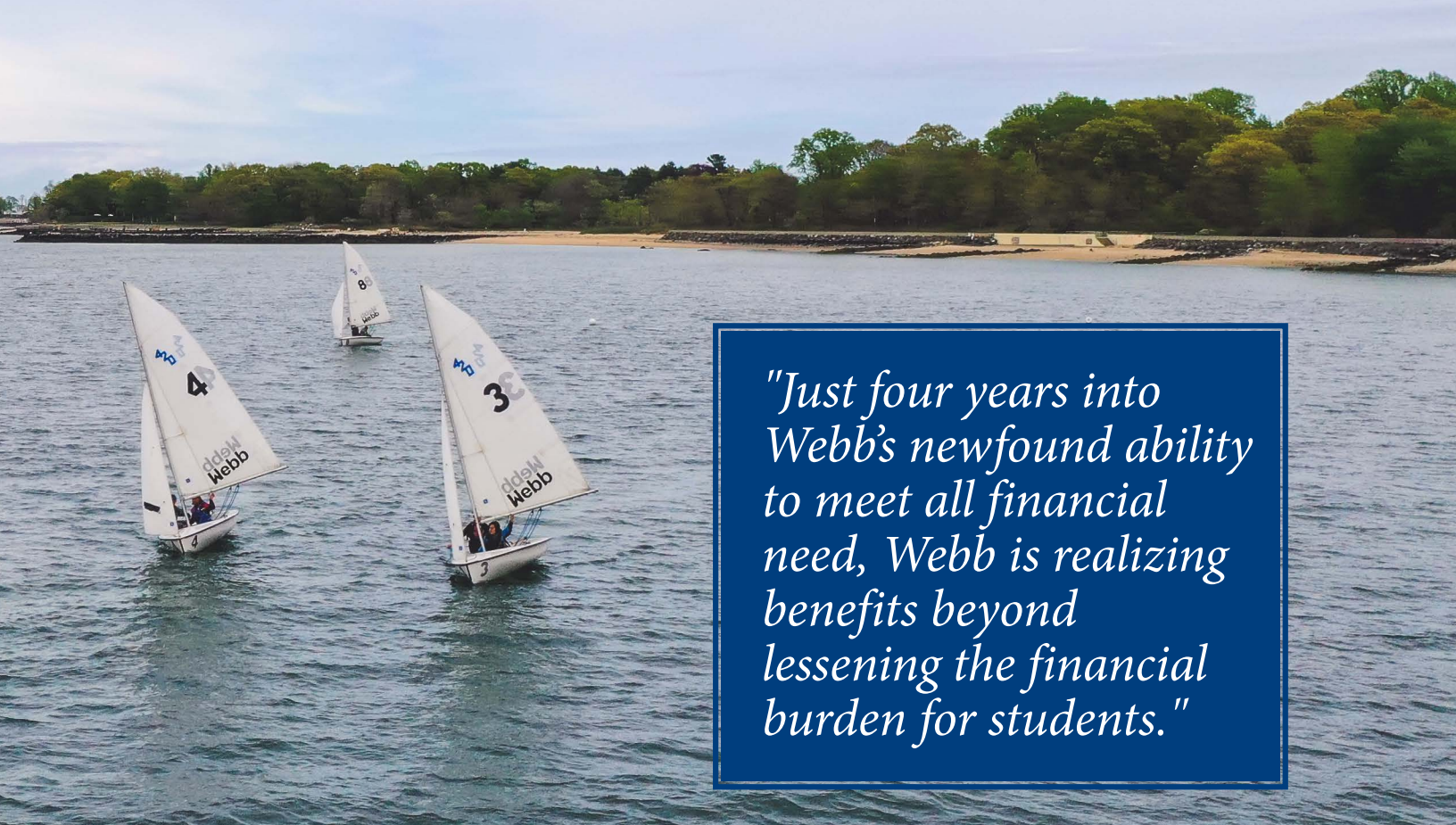
Webb's robust scholarship program began with our Founder's generous bequest and has grown to feature 36 scholarships named and sponsored by benefactors, including tuition, room and board, and hybrid (tuition plus room & board) scholarships. Some are funded through annual gifts and others are established as permanent endowments, whereby a 3.75 to 4.25% draw on the endowment's principal provides for the annual tuition and/or room and board stipend.

As impressive as the growth of our scholarship program has been in recent years, the growth of the financial need of our student body has increased at an even greater rate. Since 2013, each freshman class had between two and six students with financial need above and beyond Webb's full-tuition scholarship, and that number has grown to between seven and nine students for the classes of 2023, 2024, and 2025, almost tripling the average financial need over the prior three-year average.

The 2018 grant secured through the Gardiner Foundation significantly altered Webb's scholarship landscape. The four-year, \$250,000 commitment from the Long Island-based foundation enabled Webb to join a

prestigious list of only 70 colleges and universities in the United States that meet the full demonstrated financial need of its entire student body. More importantly, this scholarship temporarily eliminated financial barriers to attending Webb. This is the closest Webb has come to the pre-1970 era when students did not contribute any funds out of pocket. For this new financial model to become a powerful student recruitment tool and for the Webb education to be accessible to all students who are academically qualified to attend regardless of financial need, Webb's ability to meet full demonstrated financial need must be sustained long term.

As part of Webb Board of Trustees Strategic Plan of 2019, Webb set out to accomplish numerous objectives, including to "meet the demonstrated financial need of every student." The Board also approved Webb's Diversity, Equity, and Inclusion (DEI) Plan at the February 2021 Board of Trustees Meeting. Both plans articulate similar priorities regarding the support of our students, and both are founded on the principles of our founder, William H. Webb. To accomplish these Board directives and goals, Webb is developing strategies to secure \$50,000 to \$75,000 annually in new gifts or establish an endowment of \$1.2 to \$1.8 million on a permanent/endowment basis. Webb is concurrently seeking out both types of revenue streams to meet this goal. The Board of Trustees unanimously agreed to allocate \$200,000 in May 2021 to sustain the demonstrated need scholarship program over the next several years, as we solicit gifts for this purpose. This fund enables Webb to assure incoming freshmen



"Just four years into Webb's newfound ability to meet all financial need, Webb is realizing benefits beyond lessening the financial burden for students."

that their full demonstrated financial need will be met during their four years at Webb.

Since Webb altered its financial aid model in 1967 to no longer cover the cost of room and board, books, and other fees, these additional costs have continued to increase over the years, making it more difficult for those with significant financial need to afford the Webb experience. Even with the generous room and board scholarships and loans, the full demonstrated financial need of Webb's financially neediest students was not being met. Furthermore, Webb could not promise to meet students' demonstrated need if there were changes to their financial situation. Accepted students concerned about the cost of attending Webb would, therefore, be put in the tough position of selecting Webb, without their demonstrated financial need being met and not knowing how the cost would change over the years, or choosing a different institution that could guarantee to meet their full demonstrated financial need for their four years. Unfortunately, Webb has lost a few academically impressive students to similar circumstances.

Just four years into Webb's newfound ability to meet all financial need, Webb is realizing benefits beyond lessening the financial burden for students. Although only limited data are available given the relatively short timeframe as well as Webb's small applicant pool and student body size, Webb attributes the progress made in recent years in admissions, at least in part, to our ability to meet all financial need. Some of this progress includes:

1. Increases in the average grade point average and Standardized Test Scores (i.e., SAT and ACT) of enrolled students;
2. Increases in the number of students applying and being approved for application fee waivers (from between 3% and 11% in the years prior to between 25% and 30% over the past three years);
3. Yielding larger numbers of low-income students (from between two and six students in the years prior to between seven and nine in the past three years);
4. Increases in the number of underrepresented students applying to Webb, including an increase in applications from ethnic and racial minorities (an average of 66% over the prior three years) and female students (an average of 57% over the prior three years); and,
5. Increases in the number of underrepresented students enrolling at Webb, including ethnic and racial minorities (from between two and six students in the years prior to between seven and nine in the Class of 2023 and 2024) and female students (from typically six students per year to nine students in the Class of 2025).

The progress made thus far is exciting, as is the energy surrounding the scholarship program from students, alumni, donors, and our offices alike. We believe that William H. Webb would be proud, and we look forward to continuing to recruit the best students for Webb, regardless of their financial situation!

The Brocket Arms Pub Gets a Facelift

by Gailmarie Sujecki (Hon.)

How the Pub Came to Be

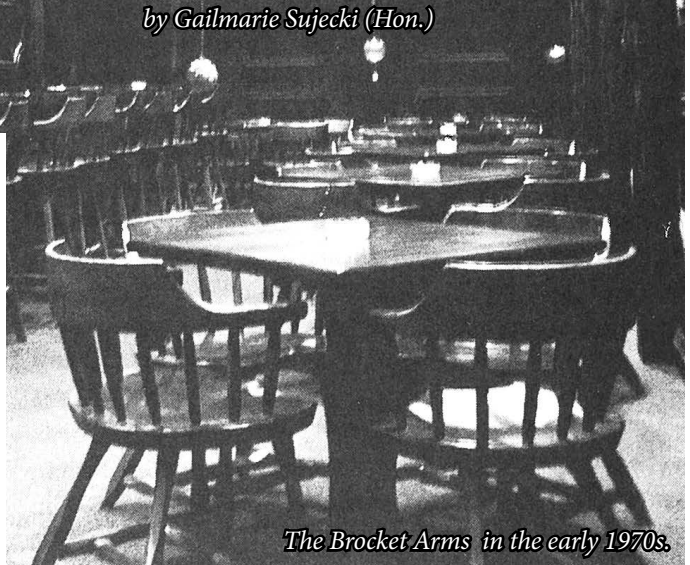
Through the academic year of 1971-72, Charlie Finegan (then Plant Superintendent) and his crew were busy building a new student pub in the basement of Stevenson Taylor Hall. With the completion of the new J. J. Henry Auditorium in the spring of 1971, the lecture hall located in the area that had formerly been a bowling alley was no longer necessary. As soon as it had become apparent that this area would be available, Admiral Brockett, responding to requests he had received from several students, had plans drawn up for the installation of an English-style student pub in the space.

Originally the pub was planned as a Parents' Fund project. A watercolor rendering was prepared and displayed during Parents' Day and Alumni Homecoming. It was at the Alumni Homecoming that Mr. Leslie Durant '39 saw the rendering. He and his wife suggested that they would like to help with making the pub a reality. Not having heard anything, Admiral Brockett called Mr. Durant who in turn told him, "We've got them started at the joinery in England, send them some dimensions." Brockett was delighted, however, when Leslie Durant looked at the plans and offered on the spot to pay the full cost, which meant that construction would start immediately. Mr. Durant agreed to the donation with one condition – that the name would remain the same: The Brocket Arms Pub. Admiral Brockett, a man with a sense of humor agreed.



Admiral Brockett, president of Webb from 1966-1974.

Les Durant modelled our Pub after the Brocket Arms Pub in the UK. The British firm supplied all the lumber already cut to size and ready to assemble. The entire pre-fab pub arrived in the fall of 1971, all in a single forty-foot box weighing several tons. The box was unloaded and work began. By the end of the spring 1972 semester the pub was nearly finished, though it was not ready for operation until the following fall.



The Brocket Arms in the early 1970s.

Mr. Durant had furniture sent from Peru, and the old Webb pool table was rebuilt. When it was decided that the furniture was not appropriate for the English pub setting, Mr. Durant sent a check for new furniture. The old furniture found its way into the upper classrooms. Also sent were various befitting antique decorations. But something was still missing in the eyes of the students. Ah yes, a sound system! Mr. Durant once again came through with a substantial donation earmarked for The Brocket Arms Pub sound system.

Modern Day Improvements

During the winter of 2021, Kirk Lehman P'22 spearheaded a renovation of the pub, recognizing how special this space is for the Webb family, especially for current students. In addition to his generous cash gift, Mr. Lehman gifted new oak flooring, moldings, and his time and energy spent staining the moldings, arranging for



The new pool table.

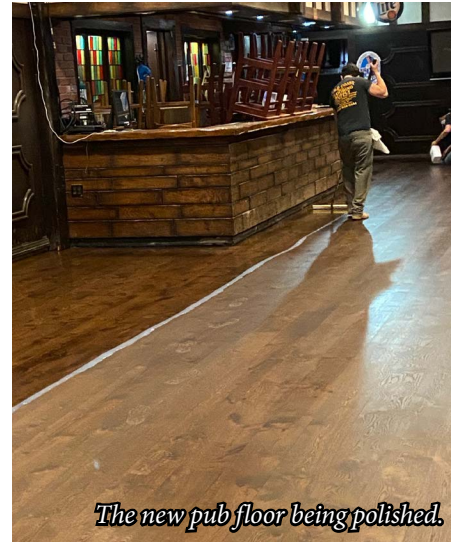
the purchase and installation of a new pool table. To help underwrite the cost of the renovations, Webb trustees, alumni, and past parents joined Mr. Lehman by making generous contributions to complete the project. We want to give special thanks to Richard Celotto '73, Nolan Conway '15, Hampton Dixon '11, Katherine Dixon P'11, Jay Edgar '87, John Hootman '01, Andrew Ko '16, Jon LaBerge '76, John Malone '71, Mark Martecchini '79, Keith Michel '73, Gene Miller '96, and Wombi Rose '09 for their generosity!



Bocket Arms Pub in 2021.

REFERENCE MATERIAL:

The Centennial History of Webb Institute; Fall 1973 Binnacle, and Professor Emeritus, Rick Neilson '70.



The new pub floor being polished.

The Other “EE”: Environmental Engineering

by Luke Herbermann '21 & Alex Koziol '21

Environmental engineering is a field of engineering concerning environmental sanitation, including public water supplies, disposal and recycling of wastewater, drainage, and control of pollution. In our senior elective, Introduction to Environmental Engineering, we first studied basic concepts of environmental science and sustainability before moving on to in-depth treatments of wastewater treatment, solid waste engineering, hazardous waste management, and air pollution. Throughout the course we have learned valuable information about how humans handle waste and how that waste impacts the environment around human populations.

To begin, we had several small presentation assignments to encourage us to do our own research on various sustainably engineered solutions to modern resource allocation and pollution problems such as food distribution, transportation, water recovery, and residential electricity use. In one of these presentations, we learned that one-third of all food is wasted or lost every year. Another related fact is that if food waste

were a country, it would be the third largest greenhouse gas emitter behind the United States and China. We rounded out the course with a comprehensive wastewater treatment plant design study, to manage the waste of a small city of 80,000 people. This project was valuable and really piqued our interest as engineers, as we completed a technical design, cost analysis, and presentation.

Water, waste, and pollution management are essential infrastructure challenges that the world faces as industrialization, and, consequently, urbanization spreads around the world. Developments in these fields have allowed for increasingly large populations, and further developments are necessary for truly sustainable human population centers. This course has been intriguing and worthwhile and even has some of us considering further education in the field. We would like to thank Professor Dounia Elkhatib (PhD, University of Rhode Island) for her work in organizing and teaching this course at Webb and recommend that this elective be chosen in the future.



2021 JUNIOR SHIP DESIGN HIGHLIGHTS

by Bradley D. M. Golden '99, Assistant Professor of Naval Architecture

Always a highlight of the spring semester, the 2021 junior ship vessel design projects were a resounding success this year, with seven different designs being developed. This project is the students' first opportunity to take many of the naval architecture and marine engineering concepts that they've been learning and apply them in practice to bring these complex engineering ideas together into a single product.

As in past years, each of the groups selected very different designs, all of which were quite challenging, and some of which rather unique as well. This year's vessel types were:

- A motor lifeboat for the U.S. Coast Guard, intended to replace the current 52-foot Special Purpose Craft – Heavy Weather (SPC-HWX) boats.
- A heavy icebreaker to supplement the existing polar-capable fleet and to support the Coast Guard's wide range of missions in the Arctic and Antarctic.
- An inland waterways dredge for the Lagos Lagoon in Nigeria, to facilitate the operation of a ferry service in the region and for land reclamation projects along the shores of the lagoon.
- A livestock carrier to transport dairy cattle and smaller animals from the U.S. to destinations worldwide.
- A pilot boat mother ship for a fleet of electric-powered pilot tenders operating along the U.S. East Coast.
- A research vessel to conduct multi-disciplinary studies in near-shore regions of Western Europe from the Baltic Sea to the Mediterranean.
- A RoPax ferry to transport up to 300 passengers and crew on the Amazon River between Manaus and Tefe, Brazil.

More information about each of these designs can be found on the SD1 project webpage at www.webb.edu/sd1.

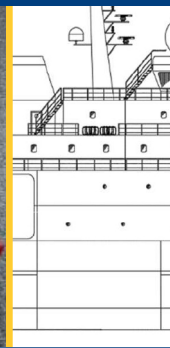
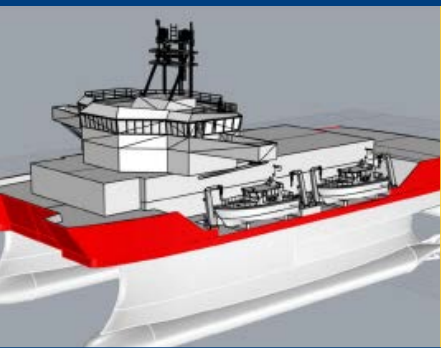
As the professor leading this course, one of the challenges I face every year is preparing the design requirements for each of the vessels the students will be designing.

This year was particularly challenging because of the uniqueness of the different vessels selected. Only four of the USCG's SPC-HWX vessels were ever built, and these are highly specialized vessels. The dredge was to be self-propelled and include a hopper, but it was also to operate in a very shallow waters. Livestock transportation is a sector of the industry with relatively few participants and very specific animal welfare regulations. (I learned more about livestock this year than I ever thought I would.) The RoPax ferry was to include both airline-style seating and hammocks for many of the passengers. Luckily, we have a pool of industry partners who regularly join these projects as mentors, and the entire course would look very different without them. Thank you to everyone who has helped make this possible. I look forward to working with you again next year, and I'd also like to invite anyone else interested in participating in future years to reach out to me directly.

For those who haven't heard, one of last year's design groups won first place in SNAME's annual Dr. James A. Lisnyk (Webb '63) Student Ship Design Competition. Inspired by this success, two of this year's groups also entered student design competitions. The livestock carrier group has entered the SNAME Lisnyk competition, and the RoPax ferry group has entered a competition sponsored by the Worldwide Ferry Safety Association. I'm hope you'll join me in wishing both groups the best of luck!



Professor Golden '99 with SNAME Lisnyk Competition awardees Benjamin Hunt, Oscar Como, Luke Herbermann, and Alec Bidwell.



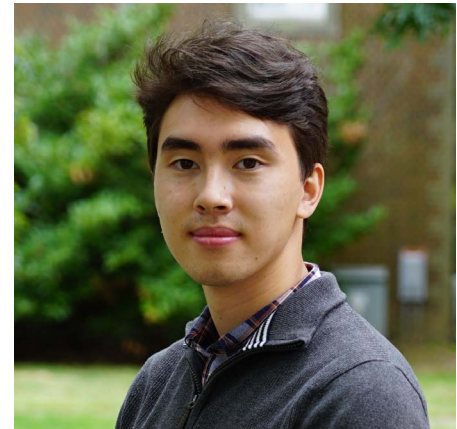
The primary purpose of the vessel is to export dairy cattle from the United States to overseas customers in Africa, Asia, and the Middle East. The welfare of the animals is of the utmost importance; therefore, the vessel is to be of a “closed” design that protects the animals from the outside environment. Export terminals include locations on the U.S. East Coast and U.S. West Coast ports; therefore, the ability to transit the Panama Canal has been considered. With a length of 120.0 m, a beam of 18.5 m, and a design draft of 6.6 m, the vessel can carry up to 2,000 head of cattle per voyage, as well as smaller livestock (pigs, sheep, and goats) when a full load of cattle is not required.



The primary purpose of the ferry is to transport up to 300 passengers and crew on the Amazon River between Manaus and Tefe, Brazil, a distance of approximately 600 km. In addition to passengers, the ferry is able to carry motorcycles, bicycles, luggage, and cargo consisting primarily of agricultural products and small package goods in up to nine small freight vehicles. At a length of 68.7 m, a beam of 16.8 m, and a draft of 7.0 m, the ferry has been designed to safely operate at a speed of 18 knots, considering the conditions of the waterway, the weather, and the required passenger/cargo capacities. The ferry is also designed to be affordable to construct, acquire, operate, maintain, and repair.



LEARNING THE ROPES



by Kohta Erdos '24

Webb stands out to me for its incredible community and the cooperative work environment it offers. Before Webb, my knowledge of marine vessels was composed of my limited experience in kayaking. Much more than Webb's renown in the maritime industry, I loved the classroom culture I saw during my perspective freshman visit. I wish that many of my high school classmates were able to do the same, as the PF experience allows students to envision themselves at Webb. A major appeal to me was the small class sizes and work studios that allow for collaboration.

During my first semester at Webb, the freshman boat competition was by far the most exciting and challenging episode. Our group designed a boat with an outrigger, using many more scalene triangles and tricky bits than your average box barge. During construction, we told ourselves that no matter what, our boat would be the fastest – either to finish the race or hit the bottom of the Sound. In the end, the extra complexity and additional work paid off with a first-place finish. For the freshman boat competition, a solid group dynamic and fluid teamwork were critical for success, and bettering ourselves in these skills guided our group to the finish line.

For my Winter Work term at General Dynamics NASSCO in San Diego, the thrill of diving straight into industry experience was amplified by the size and scale of the newbuilds. I worked in the quality assurance department, conducting inspections on the T-AO Navy resupply oilers and Expeditionary Sea Base ships. I had the opportunity to see the entire process of shipbuilding from sheet metal to outfitting. It was especially interesting to see the general arrangement, then the 3D CAD model, then go aboard and see a system or compartment during an inspection.

It is not all work though. This past year at Webb, I have enjoyed sailing, playing disc golf, and attending student-led events. After going through my first year, especially with the challenges posed by COVID-19, I am thankful to have been at Webb and enjoyed working with my classmates and the rest of the Webb family.



Fox Keyport, Kohta Erdos, Miguel Sanchez, and Payne Donaldson with their Freshman Boat Competition submission.



Winter Work | Elliot Bay Design Group



by Juliette Lehman '22



Juliette Lehman '22 with Alex Koziol '21 and Ben Hunt '21 during one of their trips to the Washington wilderness.

Having heard of the endless rain and dreary skies of Seattle, I said to myself, “That sounds like my kind of place!” So, I applied to Elliott Bay Design Group in hopes of gaining experience with ferry design and familiarity with the state of Washington as a whole. I stayed with two Webb seniors, Ben Hunt and Alex Koziol, who were completing their internships at Glostien. Among the three of us, many delicious meals were cooked, and many sites were explored.

To my surprise, Seattle winters are gorgeous - 45 degrees is downright balmy for those from the Northeast! The unexpected weather allowed us to spend plenty of time outdoors; we went hiking, geocaching, and sightseeing as often as our time would permit. On one long weekend, we were even able to make our way out to the Olympic Peninsula for a few nights of car camping.

We also spent time with Webbies living in the Seattle area - whether that be fellow students on internships or alumni who invited us to dinners. The Webbie network is strong in Seattle, and we took full advantage of it!

As for the work, EBDG proved to be the perfect decision. I was given an assortment of projects immediately, primarily helping with vessel cost estimates and adjusting GHS files to reflect design changes. Around the second or third week of the internship, I was given a more

permanent job of putting together structural drawings for the Casco Bay Lines ferries in Portland, Maine. As I fell into a more routine set of assignments, I was able to expand my experience with technical drawings and Finite Element Analysis.

In addition to office work, I was given the chance to get out into the field a number of times. I was mainly brought along to observe ship checks on a variety of vessels, from fishing trawlers to larger passenger ferries.

EBDG boasts a plethora of Webbies, all of whom were kind enough to personally welcome me to the team, extend a hand when needed, and provide technical expertise. I worked closely with Sam Waterhouse '13 and Theresa Fielding '96 on a variety of structural work. There was much to learn, and they were all more than willing to share their experience.

I'm incredibly grateful to have had an incredible internship at Elliott Bay Design Group, but also to have had the time to explore Washington with both current Webb students and members of the amazing Webb alumni network.



METAHEURISTIC ALGORITHMS IN CONCEPT DESIGN: OPTIMIZATION OF MARINE ELECTRICAL SYSTEMS

Authors:
*Ben Hunt and
Alex Koziol*

Adviser:
Professor Michael Martin



ABSTRACT

Ship designers use experience and standards to guide their solutions to problems. Automation and optimization algorithms, despite their limited exposure in the maritime industry, could reduce this effort and help make trade-offs between new technologies. Marine electrical systems are procedurally designed with repetitive calculations, while marine power plants are designed by best practices and time-intensive trade-off studies. We developed a marine engineering design tool that aids with electrical system and power plant design, combining automation and optimization to minimize engineering time. This tool could prove valuable for the concept phase of ship design, allowing engineers to draft and evaluate options quickly and easily. We demonstrated that automation and optimization are applicable to complex design problems in the marine industry and can be accessible at the undergraduate level.

OBJECTIVES

The first objective of this thesis was to develop a concept design tool for shipboard electrical systems and power plants to save engineers' time by reducing repetitive tasks and the need for time-intensive trade-off studies. The second objective of this thesis was to demonstrate the applicability of automated design tools and optimization techniques to the marine industry.

SUMMARY OF METHOD

The design tool replicates design processes of both the power plant and electrical systems. The tool may be split into four unique and independent module, input, modeling, optimization, and output as shown by the logic flowchart in Figure 1.

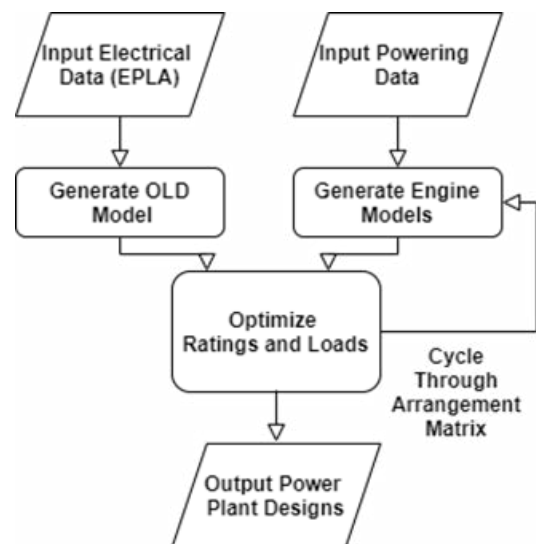


Figure 1. Logic Flowchart for Design Tool

As input, the tool takes a vessel arrangement, electrical plant load analysis table with equipment locations, and propulsion power requirements at each load case, weighted by time. The tool then generates a one-line diagram (OLD) using standard electrical engineering practices, with which it models the electrical system. An example output of this model is shown in Figure 2. Using the OLD, total electrical loads are developed at each load case and used to generate a matrix of plausible power plant arrangements. These arrangements' engines are modeled and optimized by rating to a time-weighted average of fuel consumption at each load case. The tool then outputs the designed OLD information, as well as a Pareto front of plausible power plant designs, each with type, number, and ratings for each engine.

CONCLUSIONS

In conclusion, we successfully developed a design tool that generates a one-line-diagram and an optimized set of power plant designs given basic vessel information. We demonstrated that automation and optimization techniques can be implemented for marine electrical and power plant design problems. We created a code base that may be expanded in the future to further explore the forms in which automation and optimization may be applied to marine electrical and power plant design problems. Finally, we showed that with a Webb education publicly available packaged modern optimization techniques can be understood and applied to engineering problems at the undergraduate level.

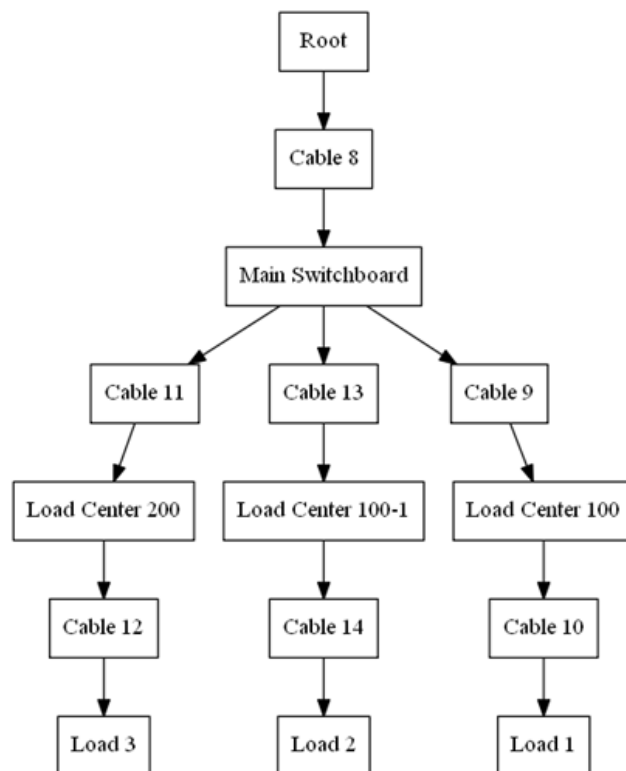


Figure 2. Example OLD Model



A note from thesis advisor, Michael Martin, Associate Professor of Electrical Engineering

Ben and Alex's thesis investigated the important role of using computer algorithms for early-phase ship design and optimization. Utilizing these types of algorithms to explore a variety of designs, while minimizing the time required to develop them, is a developing field of engineering. It was really a pleasure being the advisor on this thesis because both students were engaged from the very beginning. We had weekly meetings that were both productive and enjoyable, and I will miss them next semester. Ben and Alex put a tremendous amount of effort into this thesis. Additionally, they presented their findings at the local SNAME section meeting and also submitted a paper for the SNAME annual meeting.

Congratulations to both of them on winning the Lewis Nixon Memorial Prize. It is well deserved.



The album cover for Take N One.

IF YOU CAN DESIGN A SHIP, YOU CAN RECORD AN ALBUM

by Luke Herbermann '21

Musical inspiration can come from many different people and places. During the Music Composition elective I took junior year, I composed a Study in Em, the opening instrumental track to my new album, *Take N One*. The piece is an ode to my incredible classical guitar teacher from when I was a kid. As a both teacher and mentor, he inspired me in many ways, even throughout my years at Webb. One recent memory that reminded me of him was the time I was asked to play my classical guitar at the ribbon cutting ceremony for the Couch Academic Center. After I agreed to perform, I tried to practice, but failed to remember many substantial classical pieces in my repertoire. One day, though, I had an epiphany. One of the most important things my teacher stressed was correct posture. He always harped on ensemble members forgetting their guitar footstool, an underestimated key to every great performance. When I realized I had left my footstool at home, I called my mom and had her mail it to me. Sure enough, the second I corrected my posture with the footstool, it all came back, flooding into my mind as if the songs were water being released from a dam in my head. It was such a powerful feeling that I was inspired to write something reminiscent of the songs that had just come back to me. Many of the songs on my album come from instances of inspiration like this one.

One thing I am particularly proud of is how much of this album was completely self-made. I did all the song writing, recording, producing, and mixing for each song. I even built the small acoustic (parlor)

guitar that I used in almost every piece! The guitar has a spruce soundboard with ambrosia maple siding and an African makore fretboard. I dare say that I love this guitar so much I have played it every day since making it. Another key part to every album is the album artwork. My parents had an old low-resolution photo of our house from the late 19th century that was the perfect match to the overall vibe of the album. To make the work my own, I recreated it using some cheap paints, changing the color scheme and re-arranging some small details in the foreground.

My recent album, *Take N One*, is available on all music streaming platforms and YouTube. While I consider it a modest album, there is no doubt I am very proud of what I have accomplished.





Adrian Onas: Inspiring the new generation to participate in the SNAME T&R Program

Adrian S. Onas is a Professor of Naval Architecture and Director of the Circulating Water Channel, who joined Webb in 2011. His interests include nonlinear dynamics, theoretical and computational hydromechanics, biomimetics and innovative ship design. Dr. Onas is a Naval Architect with over 25 years of experience in the maritime industry. He holds a PhD in Ocean Engineering from Stevens Institute of Technology.

Professor Onas is the new Chair of the SNAME Technical and Research Hydrodynamics Committee, within which he also leads the Seakeeping Characteristics Panel (H-07). He is also a member of the SNAME T&R Marine Forensics Committee, a member of the SNAME Council and SNAME T&R Steering Committee. While he is excited about these new opportunities to contribute to SNAME in a meaningful way, he also feels that Webb students and alumni need to learn more about SNAME T&R Program and potentially be part of it sometime after graduation. He thinks it is a most rewarding experience to contribute by improving the technical knowledge base to assist the naval architecture and marine engineering community in designing safer ships, while reducing the impact on our environment.

SNAME has had a long tradition of spearheading programs that helped refine our understanding of how marine vehicles and offshore structures respond to their operating environment through quality research in several key disciplines. The importance of encouraging and sponsoring research is clearly outlined in SNAME's mission. Such research activities have been carried-out through SNAME's T&R Program, which consists of ten committees, each dedicated to a general area of research. T&R Panels serve as subcommittees of each T&R Committee, to provide more focused research into defined areas. The SNAME T&R program is comprised of a total of 72 panels, including one ad-hoc panel and two sub-committees.

The T&R Program provides an opportunity to SNAME members who are interested in sharing their expertise to advance research and help publish their results in the form of T&R bulletins and technical reports. Thanks to improvements in the SNAME portal, all T&R publications can be now accessed online for a nominal fee. The big challenge, of course, is to attract SNAME members with the right expertise that can find the time to volunteer in the T&R Program. This is required by the high standard historically set by SNAME in the bulletins and reports published by the T&R committees. Such bulletins are used extensively by the industry, academia and are often considered when regulatory requirements are updated. However, in the case of the Hydrodynamics Committee, although 44 bulletins were published between 1947-1993, the most recent is Bulletin 1-44, "Design

Workbook on Ship Maneuverability" from 1993. The SNAME T&R Hydrodynamics Committee is presenting much needed new material now and is in the process of drafting two new bulletins, (1) "CFD-Informed Maneuvering Model for Autonomous Underwater Vehicles (AUVs)" by D. Njaka, S. Brizzolara and D. Stilwell, editor A. Onas (CFD Marine Panel, H-11), and (2) "Hydrodynamic Loads of Marine Vehicles" by A. Onas et al. (Seakeeping Characteristics Panel, H-07.) The hydrodynamics committee is planning to add at least two new panels, including Biomimetics and Extreme Events.

The new Hydrodynamics Committee held its first webinar on May 7, 2021, titled "Seakeeping in Modern Ship Design", presented by Prof. Onas and Mr. Bastien Abeil (MARIN), which is available on SNAME's video archive. The webinar started with a brief review of seakeeping theory, followed by a case study on the findings of a series of model tests performed at MARIN in bathymetric and metocean conditions representative of those encountered by the Ultra- Large Containership MSC Zoe. Her accident occurred off the coast of the Netherlands in early 2019 and caused the loss of 342 containers, producing heavy pollution of an IMO designated Particularly Sensitive Sea Area (PSSA).



ULCS MSC Zoe's container debris area (Netherlands, 2019)

It was found that although ships are designed to avoid low transverse stability, excessively high stability can also lead to hazardous situations (MSC Zoe's beam is 59m). Large transverse metacentric heights can cause roll resonance in beam seas. Combined ship motions can then induce accelerations on deck that exceed design values considered well within safety margins by classification societies, as well as producing contact with the seabed in shallow waters. Dynamic stability failure modes, such as parametric rolling, where found to affect container ships with more conventional (reduced) stability and varying waterplane areas in waves, as such phenomena can yield accelerations on deck that are far beyond what can be handled by the lashing equipment. A brief overview of the work currently in progress was given, in which the motion response of smaller ship sizes (Feeder and Panamax classes) in the North Sea is scrutinized.

Message from the S.O. President:

Year In Review



Ioana Mirica '22
Student Organization President

As impossible as it may sound, Webb felt a little smaller than usual this year. COVID-19 presented unique challenges to the Webb community. Together we had to learn to adapt to unexpected changes and develop new ways to connect with one another.

In the 2020 fall semester, we welcomed 28 bright faces with a first-of-its-kind virtual Orientation Week. The freshmen faced their first engineering challenge with the freshman boat project. Each team was tasked with designing and constructing a boat which was to successfully race around the Webb beach. Congratulations to Fox Keyport, Payne Donaldson, Kohta Erdos, and Miguel Sanchez for finishing in first place.

Classes began remotely using Zoom. Soon, some professors transitioned back to in-person classes in the design studios, an experience we had not enjoyed for nearly half a year!

As the semester progressed, the Social Committee and student leadership worked together to retain normality. Webb athletics and off-campus activities were restricted for most of the semester, so students had to come up with innovative ways to spend their free time--at least what little there is of it! Most Webb traditions, including Freshman Karaoke Night, the Halloween Party, and Casino Night were able to occur with small COVID-friendly modifications. Several new traditions were also developed, including movie nights on first terrace and ice skating.

Students were also finally able to fully enjoy the new Couch Academic Center. Without its construction, it is very likely that this academic year would not have been able to take place in-person. This is primarily because New York state imposed occupancy restrictions which limited many of the spaces students were able to use on campus.



Freshman Boat Competition.

After a semester of reinventing traditions, Webbies headed off to Winter Work. At first, it was uncertain whether this essential aspect of Webb culture could take place. However, with the help of Webb's alumni network, administration, and faculty, all Webbies who wished to get an internship this winter were able to do so, whether in person, at home, or through a hybrid experience.

Once the spring semester began, students returned to campus. Students, faculty, and staff led a



successful effort to get vaccinated. To celebrate the student body's 95% vaccination rate, the President planned an ice cream social which marked the beginning of loosened restrictions and the return of normalcy at Webb. Although no guests were allowed, Gatsby and Webbstock closely resembled the joyful events upperclassmen remembered. Students enjoyed live music played by their fellow classmates and professors, cold drinks, and inflatable structures!

Webbies also showed their eagerness to give back to the community by participating in events like Founder's Day and the Welwyn Clean-up. Projects included fixing the broken bridges in Welwyn Preserve, cleaning the Stevenson Taylor Hall (STH) attic, weeding, and powerwashing the fourth terrace.

I would like to congratulate the next Student Organization president, Jacob Dillistin '23, as well as the rest of the elected student leadership. You are a bright and enthusiastic group which is sure to have great success making Webb a little bit better next year. The journey ahead of you is difficult, but I look forward to the spectacular work you will accomplish in the next year.



A trip to Joshua Tree during Winter Work Term.



Ice cream social in Cuneo Courtyard.

Sustained Dialogue

The murder of George Floyd sparked nationwide protests and discussions regarding racism and police brutality. The Webb community was not immune to the effects of this event. The student body wished to express its diverse viewpoints, but was limited by classroom settings which did not allow for meaningful disagreements. This led to the creation of Sustained Dialogue (SD), an intergroup dialogue program which empowers Webb students to share their personal experiences, listen to each other, develop empathy, and implement change. This program is modeled based on existing formats, mainly those created by the Sustained Dialogue Institute, Michigan State, and University of Michigan.

Each semester, participants choose a different

emotionally charged topic such as race, gender, and sexual orientation. The program is made possible by collaborative student efforts. Students can volunteer to compile resources, develop curricula, and facilitate dialogues. The Webb administration supports the program by funding yearly training to facilitators during Leadership Week. Over the course of ten weeks, members meet for one-hour sessions to learn and discuss. The final two sessions focus on enacting change within the Webb community. These sessions have led to increasing the visibility of minority clubs and electing a student DEI representative to the Top 7. Students stated that SD sessions improved their level of confidence when discussing emotionally charged topics and provided them with communication skills they could use outside of SD.

Campus News

SoCo A Year in Review

In August 2020, students were excitedly, though tentatively, returning to campus after a semester of remote learning. The Webb campus was under many restrictions and guidelines with distancing and mask wearing as standard practices. Webbies and the Social Committee faced an interesting challenge: How do we socialize in a socially distanced campus?

The fall semester began with a series of outdoor movie nights on a brand-new inflatable screen. *Jurassic Park*, *Black Panther*, and *But I'm a Cheerleader* were displayed against a beautiful backdrop of the Long Island Sound.

Other warm-weather activities included tie-dye sessions and Yacht Club socials. On a sunny October day, Webbies participated in Oktoberfest, complete with lawn games, music, a German dinner cooked by Chef Rob, and two barmaids.

In November, the senior class hosted the annual Casino Night where students dressed to the nines and gambled for prizes. November was also the first time in a year that SoCo could arrange an off-campus trip: ice skating at Port Washington Skate Center. Students enjoyed the chance to spend some time away from school and on the ice. The fall semester wrapped up with a Christmas party and an appearance from Santa and his elves.

In the spring of 2021, the junior class hosted the annual St. Patrick's Day party where students participated in a potato throwing contest, drank homemade shamrock shakes, and competed to see who could peel a potato the fastest using a plastic butter knife.

In April, Webbies were treated to an Easter Egg hunt. Prizes included candy, plastic army men, and burritos.

In May, students attended the annual Cinco De Mayo party hosted by the sophomore class. Students enjoyed attempting to break open a pinata while blindfolded even though most were unsuccessful.

On May 22, students dressed up in elegant evening attire to attend a fun-filled Great Gatsby-themed night. Starting off the night with an excellent dinner from Chef Dave and his crew, students proceeded to open up their bottles of champagne, enjoy games of croquet, and dance the night away. A big thanks to Max Mah '24 for providing entertainment throughout the night.

The Webbies enjoyed Webstock on June 5th. While this year's event was only open to the campus-community, the Webbies were sure to provide day-long musical entertainment, waterslides, student-grilled food, and lawn-games!

- Toni-Marie Gossage '22, Kasey Kennedy '23, Lina Tenenbaum '21



Sunset movie night.



Students participate in casino night table games.



Evan Kawabata '24 & Chris Grieves '24 hunting for Easter eggs.



The Women of Webb in their Gatsby attire.



ANCHOR CLUB: *Seeking God While Pursuing Education*

The Anchor Club is a group of Christian students who gather weekly to encourage each other in their faith and to honor God in the midst of an often-hectic lifestyle of study.

"Even though I walk through the valley of the shadow of death, I will fear no evil, for you are with me; your rod and your staff, they comfort me." (Psalm 23:4 ESV). The past year has been tough for a number of reasons. In March our illusion of security and control was shattered when the Covid-19 pandemic raged across the globe and shut down our daily lives. Yet in the midst of every circumstance we know that God is in control and watching over us.

At Anchor Club we aim to be a place where you need not be someone or do something but rather can hear and talk about what Christ has done for you. We meet three times a week for bible study, worship, and prayer. We also aim to hold one to two outreach events each semester. These included two pizza nights and a dessert night with discussion ranging from the government and the kingdom of God to worldview related topics. It has been a joy this year to meet in person and encourage one another in our pursuit of Jesus Christ as well as the opportunities to love our fellow Webbies through our outreach events by sharing with them the finished work of Christ and what He has done for us.

- Gabe Allen '23 & Kyle Murphy '23



Students, faculty, and staff at the Welwyn Nature Preserve clean-up

Over this past year, the Leadership Committee has continued to provide services to the Webb campus and outside community while adapting to the COVID-19 pandemic. The Leadership Committee was tasked to come up with creative ways to contribute to the community without annual events such as Engineering Day. Beginning in August of 2020, the Leadership Committee painted over graffiti in the Welwyn Nature Preserve. Students also participated in a beach cleanup where they helped the environment by clearing the sand of trash, plastic, and old fishing equipment.

One of the major focuses of this year was the emphasis on mentor-mentee relationships within the Webb community. The freshman class met via Zoom rather than in person because of quarantine protocol. The Leadership Committee paired current students with the incoming freshmen to provide assistance with transitioning into the college lifestyle. These mentor-mentee pairings lasted throughout the year

and developed into fulfilling relationships, providing the freshmen with upperclasses resources when needed.

Something unique to the Leadership Committee this year was its participation in the global network e-NABLE to 3D print prosthetics for children and adults in need. e-NABLE provides a platform for members to submit their designs and for volunteers to print them. While most of the work done throughout the year involved administrative processes, the intent for the future is to have Webb students who know how to 3D print teach their peers. We hope that Webb will always be able to provide this service to the community. We are excited to see how this program pans out in the future!

We wish the next Leadership Committee luck in their future endeavors.

- Toni-Marie Gossage '22 & Gracie Schmitz '22

Campus News

FOUNDER'S DAY RETURNS

The Founder's Day that we remembered has returned to Webb. This year's event was somewhat modified because of the COVID restrictions at the time, but our students were able to enjoy the day, mostly outdoors.

Activities included gardening, powerwashing, and much needed cleaning of the Bat Cave, student kitchen, attic, and War Room. The Thorpe Field sign received a new coat of paint as did the world map on the wall behind Brocket Arms Pub.

Founder's Day gave the students the opportunity to repurpose spaces that were freed up from the completion of the Couch Academic Center. With the help of the Office of Admissions, they painted the new Merchandise Store (formally known as the original Couch Lab) and moved gym equipment over to the new Weight Room (formally known as the ALC).

Even though this year's Founder's Day did not include a special speaker, the day concluded with ice cream and a nice dinner outside.



FIELD TRIPS ARE BACK! BREWERIES, YACHT YARDS, AND MORE!

Field trips and on-campus events slowly returned to the Webb curriculum this year. As part of our Senior Seminar class, the seniors, alongside President Michel '73, visited Garvies Point Brewery to learn the fundamentals of the brewing process. The seniors also participated in the usual favorites, the etiquette dinner with Webb trustee Gregory Mendenhall, cigar social with Mike Abbruscato P'11, wine-tasting with Abbott Weiss '63, and cooking with Chef Rob.

Webbies in our Composites course visited the Safe Harbor Glen Cove Yacht Yard with Professor Royce to practice the wet layup process for laying fiberglass.



Seniors cooking with Chef Rob in the President's house.



Garvies Point Brewery.



Yacht yard field trip.



Etiquette dinner set-up.



CHEF ROB (WEINER) LEAVES WEBB, AGAIN...

Having started at Webb bright eyed and bushy-tailed in the Fall of 2015, the campus community became familiar of his quirky ways and sense of humor. He took the weight of the world on his own shoulders, showing the perfectionist he was. The students welcomed FLIK's healthy food options and Chef Rob's creativity with them. Having left his mark on the school, he left us in June of 2018 setting out to explore other culinary employment options.

We reached out to him asking if he would ever consider coming back to Webb. Well, he jumped at the chance! So, Chef Rob came back as the Executive Chef in July of 2018. Enjoying his time on campus and with the students, everything fell back into place quickly.

In the winter of 2021, he decided that retirement looked mighty good. Chef Rob's last day was on March 25, 2021. We honored him with a cake and the students showered him with gifts and kind words. Bittersweet, indeed.

Fear not, Chef Rob was invited back at the request of the seniors to present two Senior Seminars - one on vegetarian cooking and the other on barbecuing. An invitation was extended to him for Webbstock and graduation! He is a friend of Webb, and I am sure he will visit in the future as well. Thank you, and bon appétit, Chef Rob!

- Gailmarie Sujecki (Hon.)



Chef Rob with his gift from the students, a custom-made Webb apron.



SENIORS MAKE THE CALLS @ THANK-A-THON

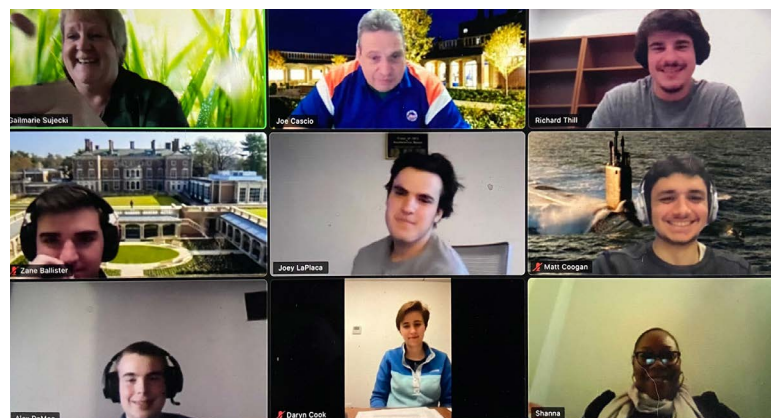
In September 2021, members of the senior class participated in Webb's annual Thank-A-Thon. They attempted to call over 840 individuals who had made a donation to Webb in 2019-20. That with the 120 donors spoken to during Webb Cares, 937 calls made and 388 were during a live conversation.

The seniors enjoyed speaking to many alumni, parents, past parents, trustees, and friends of the school. It was also much easier for them to make calls thanking people for their gifts, instead of asking people for a gift, as they did during their freshman year. Many who received calls were surprised to get a call of 'thanks' instead of a 'plea' for a gift or pledge.

ANOTHER SUCCESSFUL PHONATHON

In April 2021, the Freshman Phonathon secured pledges that totaled \$173,675 from 119 individuals.

As an added incentive, we awarded a gift card to the following students who either secured the largest number of pledges, the highest dollar amount in pledges, or the largest number of credit card gifts. Freshmen receiving a gift card include Rich Thill, David Dagoon, Konrad Fleischlag, Kohta Erdos, Miguel Sanchez, Margo Bourn, Kadi Zheng, and Tim Lazowski.

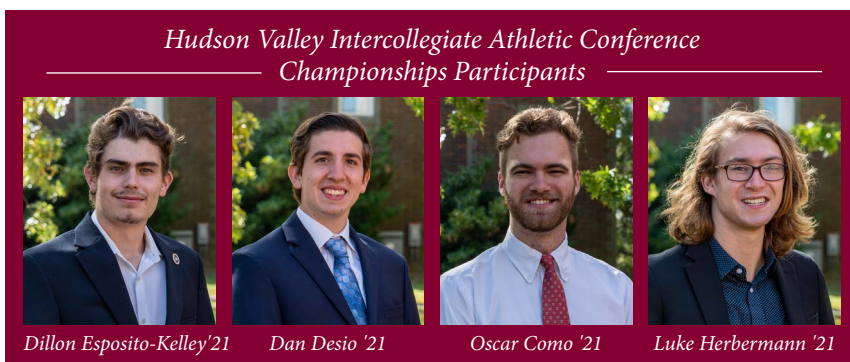


Athletics

-- A Note From -- THE DIRECTOR OF ATHLETICS

The COVID-19 pandemic crippled most athletics from the Spring of 2020 through the Spring of 2021. But Webbies found ways to keep themselves active with different activities, including gym workouts, volleyball, frisbee golf, and spike-ball. But an underlying historic story is that of the Webb Men's Tennis team's back-to-back Hudson Valley Intercollegiate Athletic Conference Championships in 2018 and 2019! The four seniors pictured to the right, Oscar Como, Dan Desio, Dillon Esposito-Kelley, and Luke Herbermann, were a major part of those two championship seasons. Unfortunately, they never had the chance to accomplish a 3rd or even a 4th Championship which was well in their reach. We would be remiss not to acknowledge their talents on and off the courts as winning representatives of Webb Institute. Congratulations to these successful athletic-scholars and best of luck in your future endeavors.

-Pat Doherty, Director of Athletics



.....BLOCK ISLAND RACE WEEK.....

Webb Institute's Offshore Sailing Team competed in Block Island Race Week, with racing starting on June 21 and ending June 25. Six students sailed the Figaro 2 *Williwaw* in the Performance Cruising class, sailing navigator-style courses around government buoys. It was the first Block Island Race Week in which Webb has entered a boat sailed entirely by students. The team placed 9th in the extremely competitive class, a respectable result considering the fact that *Williwaw* was one of the smallest boats in the class. One of the biggest challenges was learning how to optimize the Figaro 2, normally sailed shorthanded, for fully crewed racing. The crew work and boat speed improved throughout the week, and the team was challenging the faster boats by the last day of racing. Highlights of the regatta include two races around the

island, the first in a dense blanket of fog and the second with clear skies and plenty of wind.

A number of Webb alumni also found success in Block Island Race Week. The Ker 11.5 *Peacemaker* was sailed to a first place in the ORC C class by a crew that included Tom Hickey '18, Sean Walker '18, Professor Rick Royce, and a number of the team's coaches. Nate Fast '14 sailed on the J/121 *Incognito* which won the Performance Cruising class. Block Island Race Week was a great experience for everyone involved, and the team looks forward to returning in two years for another great week of racing.

-Ben Lilly '21, Offshore Sailing Captain



OFFSHORE SAILING

Webb's Offshore Sailing Team was able to have a successful year, sailing a full regatta schedule and consistently performing well. The team took COVID-19 restrictions in stride and switched focus to its three Figaro 2s instead of the Custom 40 *Desperado* and Ker 11.5 *Peacemaker* in order to reduce crew sizes. Students took advantage of the opportunity to hone a wide range of skills, including helming, trimming, and navigating.

The fall season started out with the Vineyard Race in which the Figaro 2 *Williwaw* was doublehanded by students, completing the 238 nm course to finish 6th in class. Other highlights of the season include placing 1st, 3rd, 4th, and 5th in the Stamford Denmark Race and taking 1st and 2nd in the Collegiate Face-Off class of the Manhasset Fall Series against the Merchant Marine Academy. The regatta that best showed how far the team progressed since the start of the season was The Gearbuster. The two Figaro 2s, sailed by an upperclassman and three freshmen each, placed 3rd and 4th, excelling in conditions that lived up to the regatta's name, with winds gusting over 30 kts.

The first regatta of the spring season was the American Yacht Club Spring Series; the team entered a J/70 for buoy racing and *Williwaw* for coastal racing. The team was quickly up to speed in the J/70, fighting at the front



Navy regatta on the Navy 44.

of the fleet and placing 2nd. *Williwaw* also had a strong and consistent showing, finishing 4th in class after the four races were done. Another strong result was EDLU, in which the Modified Figaro 2 Groupe 5 took 3rd in the doublehanded class. Sights were then turned to Block Island Race where the team planned to race *Williwaw* with a full crew of five students. Unfortunately, severe weather developed over the Sound during the weekend of the race, and it was abandoned. The next event on the calendar is Block Island Race Week, where the team hopes to back up their win from two years ago with another impressive showing.

It has been an honor to lead the Offshore Sailing Team over the last year. The tenacity shown by the team has been nothing short of amazing, with everyone adapting to new challenges without missing a beat. Students were able to log a combined 7000 nm between last summer and this spring, an impressive number even in a "normal" year. I have enjoyed watching my teammates develop, both as sailors and people, and am excited to see them continue to develop in the future.

-Ben Lilly '21, Offshore Sailing Captain



Webb Alumni Association Report:

It Has Been a Year Already!



Vicky Dlugokecki '88
President of the Webb Alumni Association

It was in May 2020 that I was the newly elected WAA President, historically voted in via our very first virtual Annual Meeting using Zoom, and it has been quite a year. COVID threw us a curve ball, but the WAA tried to make the best of it and keep our connection to the Webb community strong. Following our first Annual Meeting in May 2020, the WAA hosted a Toast to the Class of 2020, since they weren't able to hold their in-person graduation ceremony at Webb last year. When the SNAME Maritime Convention went virtual, we also pivoted, and instead of a virtual Annual Banquet, we hosted a Meet the Seniors Zoom in October. Since our Annual Banquet is usually dedicated to the presentation of the William Selkirk Owen award, we also announced during that virtual meeting that Ken Fisher, Class of '64 was the recipient of the 2020 Owen Award, and that it would be formally presented at a future in-person event. With COVID seemingly under control, we can now confirm that Webb Institute will be holding an in-person fall 2021 Homecoming event on Saturday, October 23rd, and our plan is to present the Owen Award at an Annual Banquet during that event. As of this article, Ken cannot make that event because of previous commitments, so the current plan is to present the 2021 Owen Award in the fall, and Ken will have to wait until the spring for his ceremony.

On May 22, 2021, the WAA held our Annual Meeting, and again it was virtual via Zoom. It was well attended with over 85 participants. We unanimously voted 22 students from the Class of 2021 into the Webb Alumni Association. We also unanimously voted in Andrew Pidduck '19 as the 5th Member, and Eric Linsner '70 as the 6th Member; Jake Neuman '93 will continue as the Webb Alumni Fund Chairperson. As 5th Member, Andrew will be the WAA's primary liaison with the student body. He will also assist with the Webb Alumni Mentoring (WAM!) Program, which continues to grow strong since its inception in 2017. This year, 22 students from the Class of 2022 signed-up to participate. We currently have a pool of roughly 100 mentors and are always looking for additional volunteers. Eric Linsner's role as the 6th Member is to lead our Regional Coordinator volunteers. After more than a year of virtual socializing, I'm sure that Eric will have his hands full, with Webbies itching to see each other in person again! And if you are more into socializing than mentoring, there are quite a few Regional Coordinator vacancies to fill! The year prior to the coronavirus pandemic, we were lucky enough to hold thirteen Webb community gatherings all over the country, and in Europe, bringing together over 300 alumni, current and future students, Webb parents, and other extended members of the Webb family.

WAA EXECUTIVE COMMITTEE

Vicky Dlugokecki '88
President

Ted Dickenson '92
Vice President

Jacob Genauer '10
Secretary

Leah Sosa '08
Treasurer

Andrew Pidduck '19
Fifth Member

Eric Linsner '70
Sixth Member

Jake M. Neuman '93
Chairman, Alumni Fund

Ian Mutnick '96
Past President

Matthew R. Werner '95, PG'97
Historian

Spencer Schilling '82
Member at Large

Joe Signorelli '54
Member at Large

Sean Murphy '13
Member at Large

Mike Hutchings '95
Audit Committee

Mike Abbruscato '11
Audit Committee

Ethan Wiseman '11
Nominating Committee

Jon Dowsett '09
Nominating Committee

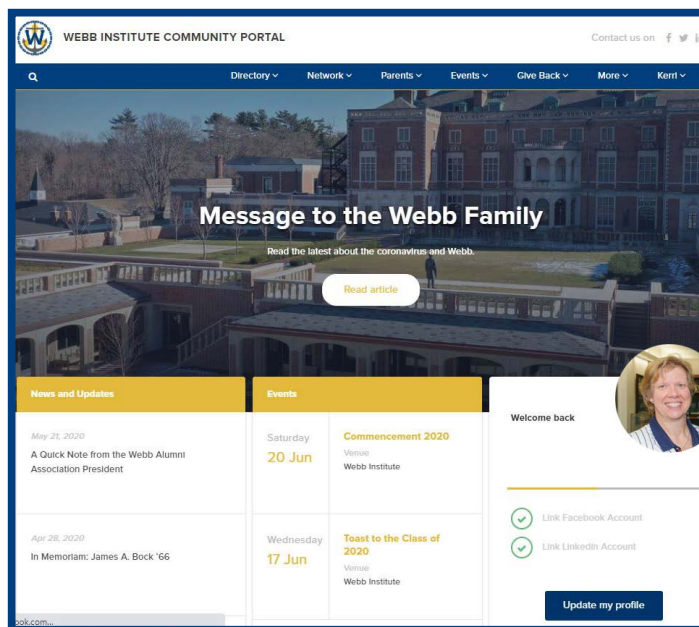
We are looking forward to starting up these in-person events again.

I'm looking forward to seeing many of you at our fall 2021 Homecoming, scheduled for October 23rd. And for those of you who will be making a week of it, and plan on attending SMC in Providence the week after, I'm sure that I'll bump into quite a few of you there as well.

Keep an eye on the Webb Institute Community Portal for news and events. And similar to my first year as WAA President, I will be sending regular updates to the alumni on various subjects to keep us all connected.

Screen capture of the Community Portal where you have access to alumni profiles, events, interactive map, career center, and photo collections.

URL: <https://community.webb.edu>. For questions and help: please contact Kerri Allegretta at: kallegretta@webb.edu



ALUMNI SPOTLIGHT

by Gailmarie Sujecki (Hon.)

This unassuming and kindly gentleman has had an impact on the spirituality of students, past and current, and, I am sure, will continue to do so well into the future. David Collins '73 and his wife, Meryl, have opened their home to students for years, as a chance to get off campus and decompress in a relaxing environment.

Growing up in Massachusetts, he enjoyed engineering, old wooden ships, and technology. It was a guidance counselor who introduced him to Webb Institute of Naval Architecture. He did apply to other schools, but Webb won his heart, so off to Glen Cove he headed. The rigors of a Webb education are demanding, but assembling other students for a game of volleyball at 1:00am was not unheard of. There was one night that he needed another outlet. As a senior, Dave was aware of a student prayer time in the faculty dining room. Through them he found God's help in dealing with the stress of senior year. It was then and there that he started his spiritual journey. At the Webb Centennial, classmate Rich Celotto said, as he welcomed Dave, "You're still a naval architect, just a spiritual naval architect helping people craft lives to weather the storms of life."

David H. Collins '73 *Pastor, Sea Cliff Gospel Chapel*



David Collins '73 with wife, Meryl.

Upon his graduation he went to work for George G. Sharp, Inc. in New York City for two years and then decided he wanted a better understanding of the Bible, so he took a leave of absence to pursue a degree in Religious Education for a year. He returned to George G. Sharp but was working with young people at church, prompting his return to seminary where he ended up with Master of Divinity at Trinity Evangelical Divinity School.

Pastor Collins returned to the Sea Cliff Gospel Chapel to do his internship, where he had been attending while at Webb. At this time, at a young adult gathering, he met his wife, Meryl, in the living room of the house they now live in - that was in June of 1977; by Christmas they were engaged and then married in August of 1978. Dave was called to Pastor the Sea Cliff Gospel Chapel in 1978, where he has been ever since.

The crossover between engineering and the ministry runs deep in his family. His father was a mechanical engineer (Navy pilot) and then joined the ministry; one son is a civil engineer; another son is in the ministry in Pittsburgh; and his foster son, who they took in as a high school student, is a successful car salesman.

Spirituality: *the quality of being concerned with the human spirit or soul as opposed to material or physical things.*

David Rhoton '87: "Pastor Collins is remembered as a friendly, supportive kind of a guy you could talk to about anything and receive a balanced, well-reflected response from, and if I were to go back in time and give myself some advice, it would include being more proactive about meeting with him and talking through some of my inner struggles and concerns much more openly."

Jackson Juska '21: "Pastor Collins has also gone above and beyond in expanding the views and values of the students in Anchor Club. His true wish to draw people together, even people of other faiths or spiritual backgrounds, is evident in his invitations to dinners and barbecues at his house or by encouraging and supporting the Webbies in serving the less fortunate of Glen Cove. It is safe to say, Pastor Collins has helped many students thrive through the rigors of Webb."

Hank Rouland '21 feels that Dave Collins' impact has been profound, an invaluable and enduring source of encouragement for students seeking to take their faith seriously. Dave Collins' unassuming and unfaltering faithfulness, care, and hospitality have modeled Christ's character to generations of Webb students.

Dan Desio '21: "Pastor Collins is a kind and loving person who provides wonderful insight to anyone that asks."



The first Anchor club group photo, taken in 2012. (L to R) Will Sturdy, T.J. Brackin '16, Brian Mills '16, Jennifer Lorenc '16, Matt Graham '14, Kelly O'Brien '16, Dakota Stagg, Erin Hub '16, and Evan Wingfield '15.

It was in the early 1980s that Pastor Collins began providing spiritual guidance to Webb students. And he has done so as students have requested help. His Church Service is available on Facebook service, and daily devotionals are posted there. Anchor Club has lately been reaching out to the Webb community with pizza and dialogue.

Matt Graham '14 is so glad to hear the Anchor Club is still thriving! Matt named the group after Hebrews 6:19, and it definitely helped keep him stay partially sane. "Dave gave some great tips on how to lead bible studies and helped him learn how to form/ask good discussion questions. Dave attended almost all of them and often brought some great snacks. Dave also met with several students one-on-one, which really helped him. He really appreciated all the time Dave invested into us. Thanks Dave!"

He has been meeting virtually twice a week with students for bible study/prayer time. During freshman orientation he invites the class to explore their spirituality, challenging them to fill out the other side of their lives. He has been with the Chapel for 43 years. In addition, he has presented the benediction and invocation at Commencement and blessed many a meal at on-campus events. He is always willing and able to help in any way possible, including cheering on the Webbies at athletic events, as well as individual counseling as requested.

He feels students must develop more than just engineering knowledge. We need to care for our whole being, mind, body, and spirit. Webb stretches our minds. We need to also take care of our bodies, which sports, and other activities help. Then there is our spirit, which is easy to neglect in the stress of the Webb educational environment, connecting with a local house of worship, and Anchor Club can help us fill out that side of our being.

Great Northern Model

Learn how a boat model brings back fond childhood memories for one alumnus

by John W. Russell '67

This model represents a long, long story that began with my mother's fond memories as a child waiting with her siblings on Bainbridge Island for the weekly arrival of a huge fast ship that made waves big enough that Mom and her siblings could ride them on their inner tubes.

Then when I was a freshman at Webb, we were assigned a research project to be completed during our winter work terms. I decided to make the ship that Mom remembered the subject of my report. In my case I returned to Portland for the winter, lived at home and was a welder at a local shipyard. While I was still at Webb, I discovered that the ship was called *H. F. Alexander*, and that she and her twin were built for James Hill, the railroad baron, for service between Astoria Oregon and San Francisco. Bear in mind that the Hill railroad across the Rockies to Spokane and then across the Cascades to Seattle and down the Columbia to Portland meant **everything** to the development and prosperity of the Pacific Northwest. The ships were called *Great Northern* and *Northern Pacific*. They were built in New Jersey, so I started my research at the New York Public Library, where I found the construction plans of the ships and their construction contract, among other artifacts. In Portland I discovered that the Hill papers for the ship and the associated railroad that was constructed between Portland and Astoria were contained in two-story brick buildings owned by the Seattle, Portland, and Spokane railroad (still there as part of the Pearl District). There I obtained drawings and photos of the massive dock that was built in Astoria to receive these 500-foot ships, as well as photos of the ships.

So that became a 50-60 page research report by the time I returned to Webb in March. The ships stuck with me, though, for several reasons: (a) they were gorgeous, far ahead of the looks of their contemporaries, and (b) they were remarkably fast, so fast that the *Great Northern*, the survivor (*Northern Pacific* burned as she was being outfitted for service in World War I), set a transatlantic record, the so-called Blue Riband faster than the larger Cunard and German liners.

The ships had three steam turbines before massive reduction gears permitted the turbines to run at their most efficient speeds (thousands of rpms) and the propellers to run at their most efficient speeds (as low as 100 rpm). These were direct coupled at roughly 350 rpm. Hill had the coal from his railroads to burn and ignored the inefficiencies.



When I was at Webb, I carved a six-foot long "towing tank" model out of sugar pine in our wood shop. It followed me up to Harvard and then back across country in my VW bus.

I was always eager to proselytize the importance of the ships to Astoria. Finally, after decades of trying, and with the help of my office neighbor who was the chair of the board of the Columbia River Maritime Museum (www.crmn.org) the talented staff of the Museum took note. They've created a separate exhibit within the Museum, and they commissioned a model of *Great Northern*. When it finally came it was damaged. The model maker, rather than trying to repair it, built a substitute. The Museum did repair the damaged model and delivered it to my office yesterday.

I feel like I can put my efforts to research and proselytize behind me. I've delivered my puppy to a good home, after some 60 years.

PS: My office neighbor, Mike Haglund, took an interest and discovered that Hill established immigration and recruitment centers across Scandinavia to get workers for the railroad and homesteaders for the land that he received from the government. It's why the saying that there are more Norwegians in Ballard than in Oslo might be true.



Mary, John, and the museum's director.



HERITAGE SOCIETY SPOTLIGHT

Dave Chapman '72

Webb Institute: The Blessing of a Lifetime

When I was in high school, contemplating college, my family was not able to help financially. A family friend gave my mother an article on Webb Institute of Naval Architecture from *Time* Magazine. The rest is history. The Webbies who came before me as well as many other benefactors made it possible for me to receive the blessing of a lifetime by providing me with the Webb experience.

After graduation I worked briefly at Newport News Shipbuilding, followed by a stint of building custom homes before returning to naval architecture with J. J. Henry Company. I spent 15 years managing the Cape May – Lewes Ferry operation before getting back into naval architecture, which continues to be very good to me.

I had a life-changing experience in 2016 with a mission trip to Africa. It opened my eyes to real despair in the slums of Nairobi where we ministered to a primary school, as well as the lack of educational opportunities, poverty, and drought challenges in the up country. Days outside of Nairobi were spent building a Vo-Tech school in a remote village. I had a very similar experience with my first mission trip to Guatemala in 2017, building homes for families that had never slept in a place without a dirt floor. It gave me a new perspective on people's struggle to survive, and how they valued education and the opportunities that a good education enabled. It made me think about how education—my Webb education—had opened doors of opportunity for me, not because of anything I did, but because people who came before me, like William H. Webb, and those who came after him, cared enough about other people that they decided to make a difference and provide opportunity to people they had never met.

In 2018, I was diagnosed with an incurable but as yet non-symptomatic leukemia. I realized at that moment that I had nothing to fear. I told the doctor I was on a



Above: Debbie and Dave Chapman in 2014. Below: Debbie and Dave Chapman at Webb in 1969.

journey, on a bus. I told him, "I know the destination and I know the driver. I don't know when it will arrive at the destination, but praise God, I have a seat on the bus! I'm in good hands!" I have not had a bad day since I received that diagnosis three years ago. I've been back to Africa twice since then and will make my ninth mission trip to Guatemala this August, a mission trip to Honduras this July, and am planning to return to Kenya and Uganda missions in January. I can't describe the joy of serving. What a blessing it is to help others.

Speaking of caring and helping others, our Class of '72 has had an amazing level of participation in Alumni Fund annual giving, with 100% of our class contributing for the past three years in a row. It gives me great pleasure to join



classmates Jim Greenlees and Jim Dwyer as a Heritage Society member. I want to thank my class for their steadfast commitment to making William Webb's legacy available to future naval architecture students through annual giving, a gift of a lifetime! Who can deny the awesome value of a Webb education? But the education is only a part of the Webb experience. I submit that the most special part of that experience for me was, and is, Webb's Honor Code. Joining the Heritage Society signals a commitment to continuing William Webb's Legacy. Far from a sacrifice, it blesses the giver as well as the future recipients.

I urge you to step up to the challenge before us to build on and perpetuate William Webb's legacy. I'm appealing to all Webb Alumni who have not yet joined the Heritage Society. It's not a difficult thing to do. For example, it can be as easy as changing the beneficiary for one of your investments. We can do this, together! But remember, it's not about us. It's about those future Webbies having an opportunity to experience what we did, because we cared enough to make a difference, together.

Thank you.
Dave Chapman

For information on the many ways to include Webb in your estate plan and become a member of the Heritage Society, and/or to learn more about how individuals 70½ years of age or older can make tax-advantaged contributions to Webb by direct IRA roll-over, visit <http://webbinstitute.plannedgiving.org/webbinstitute/giving/1.html> and/or contact the Webb Development Office at development@webb.edu or by phone at 516-759-2040.



CLASSES START August 23, 2021	CLASSES END December 10, 2021
CLASS OF 2020 COMMENCEMENT September 18, 2021	FINAL EXAMS December 13-17, 2021
FAMILY WEEKEND September 24-26, 2021	GRADES ISSUED December 20, 2021
ENGINEERING DAY tbd	WINTER WORK January 3, 2022 – February 25, 2022
ALUMNI HOMECOMING/ ALUMNI BANQUET October 23, 2021	START OF SPRING SEMESTER February 28, 2022
SNAME MARITIME CONVENTION IN PROVIDENCE, RI October 27-30, 2021	OPEN HOUSE tbd
FALL RECESS November 19 (3pm)-28, 2021	HOMECOMING May 21, 2022
	COMMENCEMENT June 22, 2022



Alumni News | In Memoriam



1942

Joe J. Gibeault of Hendersonville, NC passed away July 10, 2020, at his home at the age of 101. He was preceded in death

by his loving wife Kay and son Jon A. Gibeault.

Joe studied music, on scholarship, at Stetson University. After completing his bachelor's degree in Naval Architecture and Marine Engineering at Webb Institute, he was commissioned as a Naval Officer, where he served the US Navy, at Pearl Harbor, in WWII. Upon his honorable discharge, as a Lieutenant, he earned an MBA from Harvard University and began his career, working for G.E., managing global logistics.

He met Katherine "Kay" Armstrong, while at Harvard University, marrying in 1952 and raising their family in CT. He eventually retired to Hendersonville in 1984. He was an avid golfer, gardener, violinist, and woodworker. As a bridge player, he attained Bronze Life Master in the ACBL. He was an active Freemason for 70 years and served in many capacities at Mills River United Methodist Church, including treasurer, lay leader and as part of the Music Ministry.

Mr. Gibeault is survived by one son and two daughters; ten grandchildren; eight great grandchildren.



1946

Robert L. Kelly passed away on June 10, 2021, at the age of 97. Bob retired from Newport News Shipbuilding in

1991 after working in its engineering,

nuclear power, production, planning, and finance divisions. He came to the shipyard in 1960 from the Navy Department where he pioneered the development of the Polaris Ballistic Missile Weapon System and was awarded the Navy's Superior Civilian Service Award for that work.

Bob received his education in naval architecture and marine engineering at Webb Institute of Naval Architecture. He was named an Alfred P. Sloan Fellow by Massachusetts Institute of Technology in 1957 and received his Science Master's Degree in Industrial Management from MIT the following year.

Bob was Chairman of the Chesapeake Section in Washington, D.C. and the Hampton Roads Section of the Society of Naval Architects and Marine Engineers. He presented papers locally and nationally to this Society and was given its Distinguished Service Award and Chairman's Award.

Bob served as Director, President, and Chairman of the Newport News Pulse Development Corporation. He also chaired the Newport News Parking Authority and was a member of the Steering Committee of People to People.

A native of Tacoma, WA, Bob served in the U. S. Navy during World War II. He is survived by his wife, Peggy, four sons, and four grandchildren.



1951

Albert Chovit passed on March 6, 2019. Al was the son of a Czech immigrant father who came to the U.S. in the

aftermath of WWI.

Al was a bright student who earned a full scholarship to Webb Institute. He also earned his master's degree in Engineering from USC. He had a long and successful career as an aerospace engineer.

Despite a challenging career, Al always prioritized his family. He was a Boy Scout Leader who ensured each of his sons became Eagle Scouts. He also took his family on a three-month summer journey across the U.S.

He ensured that each of his sons graduated with a master's degrees in his field. Two of his sons pursued an education in Aerospace Engineering following in Al's footsteps and the other in Finance. He was proud of his sons and was always available to help and guide them with his wise counsel throughout the years.

He retired from TRW in his 50s. He enjoyed 30-plus years in retirement with Lois. Together they built their dream home on the Pacific Coast. He also enjoyed spending time with his three grandchildren, Nicole, Oriana, and Miles.

He passed on March 6, 2019, quickly and painlessly. After losing Lois on January 6th, he found it hard to live without her.

1954

Capt. Robert L. Ediin passed away on March 10, 2021, after a battle with cancer. He is survived by his wife Irene and his daughters Elaine Ediin and Joanne Ediin and his grandson Max Miller. Following graduation from Webb and a few years of shipyard assignments, he embarked on a distinguished career in the U.S. Navy with many achievements including The Legion of Merit. He retired in 1989, having attained the rank of Captain, and settled in La Mesa, CA.



1954X

Howard R. Ross passed away peacefully at 90 years of age in Denver, CO, on April 21, 2020.

He earned a Bachelor of Science degree in naval architecture from Webb Institute and the University of Michigan, and a master's degree in mechanical engineering from Stanford University. He served as a naval lieutenant from 1955-57, during which time he was stationed in Japan.

Howard's talent, insight, and leadership were sought by companies such as General Electric and Stanford Research Institute. The time he spent at both companies surrounded by innovators, set his career path. His passion for electric vehicle technology led him to dedicate the last three decades of his career bringing it to the world at large. Howard pioneered the creation of world's first roadway-powered electric vehicle (RPEV) system by launching the Santa Barbara Electric Bus Project in 1979. From there he went on to co-found the Program for Advanced Technology on the Highway (PATH) program at UC Berkeley in 1986, which became the largest university R&D effort on automation and electrification. He later went on to establish his own R&D company, Ross Transportation Technologies and set out on a quest to bring his vision to life.

He was a wellspring of information about political and natural history. The only thing that Howard loved more than his work was his family. In 1955 he married Ivone Montenegro, whom he met in Brazil. Her warm presence and exuberant personality found harmony with Howard's more educated formality, and they spent

nearly 65 years by each other's side. Howard is survived by Ivone, four children, and six grandchildren.



1955

Richard W. Thorpe, Jr. passed away peacefully on September 17, 2020, at the age of 87. In recent months, his health

had deteriorating rapidly. Luckily, he was able to spend July and August with the family.

His career includes three shipyards: Bethlehem Steel's Quincy Yard, South Portland Engineering Co., and Bath Iron Works. Later in his career he was employed by John J. McMullen Associates, the Shipbuilder's Council of America, Kvaerner Masa Marine, and Herbert Engineering Corp.

He is a graduate of the Oak Ridge School of Reactor Technology in nuclear engineering and has an MBA from Harvard Business School. In 1983, Rick generously donated funds to create the athletic field, named in honor of his father, Richard Warren Thorpe; and funds for student dorm furniture in memory of his mother, Margaret Matthews Thorpe.

The Webb Alumni Association awarded Rick the William Selkirk Owen award in 2000 after serving the marine industry and his alma mater with notable distinction. He became a member of the Heritage Society in 2000.

He is survived by his wife, Patricia, his two children, and Patricia's three.

1958

W. Edward Christiansen, Jr. passed away at the age of 84 on March 7, 2021, in Middletown, RI.

Known as Edward, he was a graduate of Scarsdale High School and Webb Institute of Naval Architecture. An accomplished Naval Architect and Marine Engineer, his career took him to many different parts of the U.S. Later in life, he became the proprietor of Antique Clock Restoration in Newport. A passionate collector, he had a skill and affinity for the maintenance of fine timepieces.



1959

Eugene Yourch, a 30-year resident of Greenport, NY, died March 18, 2021, at the age of 83.

He earned his juris doctor degree from Georgetown Law School and attended NYU's business school.

He married Mary Miller in 1959 in Rockville Centre, where they lived for 31 years. Gene worked in NYC as an attorney in the world of shipping. He worked with the Federation of American Controlled Shipping; National Bulk Carriers; GATX; the U.S. Department of the Navy; Marine Transport Lines; and International Registries.

He served as a delegate to an international diplomatic conference in Geneva, Switzerland, and was honored to testify in front of Congress many times.

Gene was elected four times to the Rockville Centre Village Board of Trustees and was deputy mayor for many years. In 1998 he became a trustee of Eastern LI Hospital and served for 12 years. He sat on the Stirling Cove Condominiums board for more than 30 years.

He sang in the bass section of the



Alumni News In Memoriam

North Fork Chorale and served as the group's treasurer. Gene was a tennis player in his younger years, and he was an avid boater, both power and sail. He is survived by his wife, Mary; his sons, Christopher, and their children, Sean and Sophia; James, and their children, Kathryn and Andrew; and Charles, and their daughters, Paige, Peyton and Hunter. He is also survived by his brother, David.

The family will honor his wish to be returned to the sea sometime this summer.



1960

Thomas B. Cole passed away at the age of 82 on December 26, 2020. After graduating from Webb Institute,

he received MS from University of Connecticut in Mechanical Engineering. Tom's career took him from coast to coast, starting with Electric Boat as an engineer building Nuclear Submarines. He had the honor to attend sea trials with Admiral Rickover. He finalized his career in Seattle overseeing the development and installation of security systems on the WA St. Ferries after 9/11.

He married Marilyn in 1960. They found the first of many homes in Old Lyme, CT and fully restored a 170-year-old farmhouse. They had three children. Tom continued with engineering working with Lockheed Missile and Space on many special projects. Progressed to American President Lines enlarging container ships mid-section. Eventually he advanced to V.P. of Marketing and Finance for Morris Guralnick Associates. The family returned to the East Coast and Tom took a position with J.J. McMullen Associates in ME.

Tom is survived by his wife of 60 years, Marilyn A. Cole, three children and seven grandchildren.

1969

Robert C. Seiwel, Jr. of Delray Beach, FL, passed away on June 14, 2020, at the age of 72, after a four-week battle with meningitis. Rob was born in Upper Darby, PA. He truly loved his 'Webbie' classmates.

After serving in the Coast Guard in Washington, DC for nine years, Rob moved to FL to work as a CPA. His associates at Gerstle & Rosen were a second family to him. Rob leaves behind his beloved mother, Mary Jean Seiwel.

1972

Thomas W. Chadwick, of Estell Manor, NJ, passed away after a brief illness at the age of 70. Tom was a long-time resident of Estell Manor with his wife Lenore. He was a talented woodworker and photographer. He is survived by Lenore and three siblings.

1978

Michael J. Russell passed away the weekend of July 4, 2020. He had been in failing health with long-standing issues, but according to a classmate of his, he was doing pretty well a few weeks ago, so this was unexpected. Mike worked for 35 years as a NA at the Navy's Combatant Craft design group in Norfolk where he was their expert in craft structural design. He is survived by his parents, a brother and sister, and nieces and nephews.



1985

Belinda "Belle" Spalding passed away on November 20, 2020, from Lewy Body Dementia at the age of 62. Belle

was hired in 1987 into the Ocean Engineering (OE) department at Mare Island Naval Shipyard (MINS). She was there with **Kyle Brunelle '82** in OE Code 281.3 Naval Architecture before transferring to Code 250 Naval Architecture when OE downsized to Code 125 during the BRAC closure of MINS. During this time, she worked on the USS *Richard B. Russell* and USS *Parche* as well as other active submarines.

She was a senior surveyor working at NAUTILUS LIVE, Ocean Exploration Trust, with Autonomous Underwater Vehicles (AUVs) tasked to collect oceanographic data worldwide. The AUV program at the Naval Oceanographic Office (NAVO) uses the Remote Environmental Measuring Units (REMUS) AUVs, developed by Woods Hole Oceanographic Institution (WHOI). She has also worked with the Seahorse AUV developed by Applied Research Laboratory Penn State and the Towed Oceanographic Survey System (TOSS), a deepwater remotely operated vehicle also developed by the great team at WHOI's Systems Lab.

She also helped **Carol Vernon '83** with some fabrication issues on the keel of AMERICA3 (the 1995 women's AC team).

She previously was employed as the U.S. Army Corps of Engineers San Francisco District's Oceanographer, coordinating environmental monitoring of the San Francisco Deep Ocean Dredged Material Disposal Site and for ten years as a Naval Architect for the U.S. Navy working on submarines.

She lived with her long-time partner Gil Lawler in Abita Springs, LA, and because of her increasing illness, she retired in late 2017/early 2018 when she had her 30 years in.



HONORARY



John A. Angelicoussis, owner of one of the world's biggest private fleets and among the most influential figures in modern shipping, died on, April 10, 2021.

Angelicoussis was widely acknowledged as one of the most successful Greeks of his generation, earning a reputation for closely watched market moves. He considerably expanded the fleet he inherited from his father Anthony into gas carriers, tankers and dry bulkers. With more than 130 ASG vessels flying the Greek flag, he alone accounted for nearly one-third of the entire oceangoing fleet registered in his home country. The total Angelicoussis fleet of 140 ships and ten new buildings is by far the largest Greek-controlled fleet at nearly 28m dwt, over 10m more than the second-place group of companies controlled by the family of George Procopiou, according to shipping data banks. ASG employs about 300 shoreside personnel, as well as more than 3,700 officers and crew.

Webb Institute awarded him an Honorary Doctor of Commercial Science degree in 2010.

Michael Henry passed away on January 5, 2021, at his home. Born in Hackensack, NJ to James '35 and Barbara Henry, Michael was a Harvard Law School graduate and had practiced law until his retirement. He loved classical music, the works of the Metropolitan Opera, the Boston Symphony at Tanglewood and the Philadelphia Orchestra. An avid hiker, Michael had a core of friends he hiked the Lambertville area with.

He is survived by his brother James J. Henry, his sister Dorothy H. Bessette, his nieces Elizabeth Henry and Margaret Bessette and nephews James J. Henry and James M. Bessette.



Dr. Karl Laubstein, Rector/President Emeritus of the World Maritime University from 1996-2008, passed away on 14 April

2019, in Malmö, Sweden after a prolonged illness.

Dr. Laubstein was born in Germany, studied economics and political science, gaining his PhD from the University of Toronto. He held a nautical diploma from Bremen Nautical School and sailed as a ship's officer in the merchant marine before emigrating to Canada. He spent almost seven years in Africa, first in Kenya where he carried out research on development planning, and later in southern Africa, where he taught for five years at the University of Botswana, Lesotho, and Swaziland. Because of his experience as a senior government official in the maritime field, his academic training and university experience in Canada and in developing countries, and his background in the merchant marine, Dr. Laubstein held a succession of senior management posts with the Canadian Government beginning in 1977. Prior to his appointment as Rector of WMU, he served as the Director General of Industry renewal in the Canadian Government's Dept. of Fisheries and Oceans. He was responsible for major federal initiatives on fishing industry reform and restructuring, including the US\$1.9 billion Atlantic Groundfish Strategy programme.

Webb awarded him an Honorary Doctor of Science degree in 2006.



Joseph Mazurek passed away on March 31, 2021. Born in Poland in 1925, his childhood was rather conventional until

September 1939 when Germany invaded Poland. From 1942 to 1945, Joe was in a German work camp outside Warsaw. When the war ended in 1945, he worked at the Polish Navy shipyard. After a destroyer he was on was rammed by a tug, his spine and knee injuries meant that he was no longer able to work in the shipyard. He then prepared to go to the Polytechnic University, and earned a Master of Technology degree from the University in Warsaw, and then worked in Gdansk for the Polish Ocean Line and Polish Rescue companies.

At a port call in Holland, he decided to jump ship to try to make his way to the U.S. He fulfilled his dream when he made it to New York on an immigrant visa and began looking for a job. He found employment at Todd Shipyard in Brooklyn. Then, one of the managers played golf with Admiral Bryan who was Webb's President at the time. Before long, Joe was shown around Webb by Jacques Hadler. In 1983 he became a Lab Technician at Webb.

During Joe's time at Webb, he participated in the ski trips, WooFS, ran the NY Marathon ten times, created his holiday displays for 18 years, established the Joseph Mazurek Scholarship Fund, and established the Jacques Hadler Faculty Conference Room in the Couch Academic Center. Joe was made an honorary member of the Webb Alumni Association.



Alumni News | Class Notes

1954

George Colborn, at the ripe old age of 89 is taking violin lessons from a member of the Philadelphia Orchestra. He first started taking lessons in 1939!

Frank and Wanda Falci are celebrating the birth of their first great-grandson. They are both fortunate to have survived hospitalization for COVID in 2020.

Paul and Bonnie Hayes are celebrating graduation of their granddaughter from Virginia Tech. They will be spending the summer at their cottage on the North Fork on Long Island, NY.

Al and Carole Schwendtner's three daughters will visit their NYC home, traveling from PA, VT, and CA.

Joe and Janet Signorelli celebrate their granddaughter's graduation from University of Virginia. They will be traveling from FL to spend the summer near their children in RI. Joe continues to enjoy ham radio, woodworking, and table tennis.

1957

Don Caldera and his wife **Yvette** have had a comfortable but medically rough two plus years since moving from Grand Junction, CO to their nice golf course house in Fort Worth's Resort on Eagle Mountain Lake, northwest of the city. Move was prompted for nearness now (10 minutes) of son Andy, a Lockheed executive after Navy Intel retirement, Amy and their recent Texas Tech Law School son, Austin, who graduated at the top of his class. 2019 saw them enjoying a lot of travel, cruises, and visiting family and friends. In January 2020, they enjoyed a West Africa cruise and safari month, their third to that interesting region. Next came two lower back surgeries and a right eye retina reattachment which, with local COVID, has pretty

much had them in recovery lockdown, with Don as an "impatient patient." Progress regaining vision, stamina, and balance is slow but happening! They cannot wait for permission to travel, drive, golf, enjoy social bridge, and be visited by friends. Interim lockdown has been made comfortable by wifely care and the special help of friends and neighbors for all sorts of things that we formerly took for granted. They are blessed and thankful for all's concern. Now they are on 'downsizing' phase of preparing for the mid-2021 move to a nearby Assisted Living complex, Highland Springs. This is an amazingly comfortable all-services situation. Contenting with 60 years of memorabilia is tough! Regards to all, stay safe, and consider a visit to TX!

1963

The extended class of '63 has been holding regular Zoom meetings every other month to keep in touch. When I say "extended," I refer to the fact that while we are down to 11 surviving grads, we are typically joined by two of our x-classmates, **Tim Gaul** and **Kurt Kramer**. We also invite wives to join us, and we have had several do so, including widows of our classmates. We start out with a joint session, and then the ladies split off into their own private chat room. The most satisfying aspect of these sessions is the easy camaraderie we all still feel for each other. Our techie leader **Abbott Weiss** sets up the sessions, and they are well attended. Only two of our grads have failed to tune in. We typically shoot for 4 pm to allow our Left Coasters, Deckebach, Hall, and Olson to attend at a decent hour.

In April, **Bill and Marion Birkhead** finally had a chance to get down to their Sarasota home. Unfortunately, having been vacant for 14 months, it required most of our attention to maintenance and repair items for our two weeks

down there. We did have a very pleasant break one evening when we met classmate **Bill and Linda Smith** and **Tim '75 and Susan Knowles** for dinner at Columbia on St. Armand's Circle. Tim is another Webbie who decided to practice law instead of NA or ME.

This is a big year for most of us who have either turned 80 or are about to. Lots more aches, pains, pills, and doctor visits, but everyone still seems to be the same folks we first met almost 62 years ago. We continue to have a more than 100% participation rate in the Webb Alumni Fund. With only 11 survivors, our group typically has 15 or 16 donors because of the generosity of surviving widows and x-63's.

1967

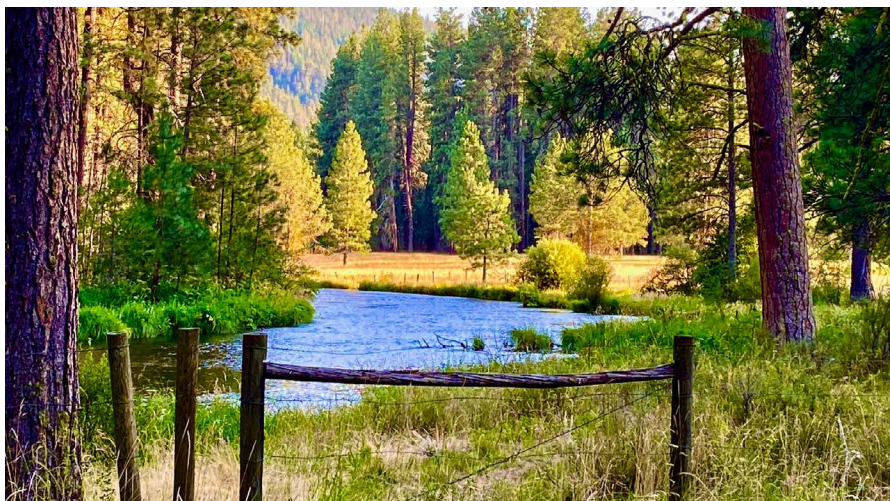
John Russell wrote the article "Great Northern Model," in this issue, found on page 38. He also shared the two following photos of his cabin off the Metolius River in OR.

1968

As the COVID pandemic shut down much of the world in spring 2020, I decided to contact my classmates and determine if there would be any interest in having a virtual (Zoom) get-together. The response was immediate and



John Russell's younger daughter with her family at our cabin.



The view from John Russell's cabin's deck of the Metolius River.

positive (even though most of us had never even heard of Zoom before the pandemic). Starting in April 2020, the Class of 1968 has been having regular monthly Zoom meetings. The first meeting had eight participants, with the expected teething problems involving Zoom. That number has gradually increased, and lately we have averaged 14 to 15 participants. It seems that the pandemic/quarantine has resulted in quite a case of “cabin fever” for all of us. As of April 2021, all of us have received at least one COVID vaccination shot, and the world shows signs of some things returning to “normal” (or the New Normal), but I expect our Zooms will continue, we all enjoy keeping in touch this way. And most of us now remember to “un-mute” ourselves when we join the Zoom and hit mute when the dogs start barking.

That number of participants may seem surprising, since we only have 10 living graduates from the class of 1968, but here's the explanation: We entered Webb in 1964 with a freshman class of 20. By the end of sophomore year, we were down to 12. All 12 “survivors” went on to graduate, but two have passed away so that makes ten. But various people have kept in touch over the years by email, and as

the Zoom meetings progressed in 2020, we gradually found all but one of the “lost boys”, and most have joined our Zooms, plus one graduate student who got his M.S. from Webb in 1968. The continuing feeling of a “connection” to Webb is quite remarkable, I think, after the passage of 50+ years, especially in the case of the lost boys. All of us have gone on to interesting careers (A few even in NA&ME!). Our Zoom meetings are informal, covering a wide range of subjects (again, occasionally even NA&ME), and typically last about two hours, which seems to be the maximum

endurance of a bunch of 75-year-olds. Between Zooms, we all exchange emails which often provide the topics for the next Zoom.

1969

Tom Campbell has been an avid sports car racer for several decades. He was recently inducted into the SCCA (Sports Car Club of America) Hall of Fame; the citation follows: "Tom Campbell has served the Sports Car Club of America in a variety of capacities at the Regional, Divisional and National level, for both SCCA Inc. and SCCA Pro Racing. Campbell is a longtime member of the Mohawk Hudson Region SCCA, beginning as a competition driver and as an engineer by training has built and maintained a number of championship caliber race cars. Campbell served two terms on the SCCA Board of Directors, including as Treasurer and Chairman. At the Regional and Divisional level, he was Chairman of the Northeast Division. He served as SCCA Pro Racing Chairman of the Board before becoming President/CEO of the subsidiary and leading it through a period of financial stability. Campbell oversaw the first set of Spec Miata rules for inclusion in the



A screen shot of a class of 1968 Zoom meeting, by Rick Greenberg, former member of the class of '68, who claims he got “the most handsome version of each of you”. They look more like mug shots to me.



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GCR and was instrumental in the move of the SCCA archives to its current home at the International Motor Racing Research Center in Watkins Glen, New York." Tom still races although his younger brother, Charlie, has been driving Tom's car for the last few years.

1970

Eric Linsner is retiring from International Registries, Inc. this summer after ten years representing the Marshall Islands vessel registry. He plans to continue working on the Marshall Islands IMO delegation in a consulting capacity. Eric and Pat will remain in Floral Park, NY, and hope to have more time to travel and at their vacation home in Montauk, NY.

Bob Jenner is retired, doing a little consulting, and working on some long-anticipated projects. After many years in New England, he and Jannaruth have moved to CA to be near grandchildren and explore that side of the country.

1975

The Class of 1975 met in May by Zoom for our Second Annual Pandemic Postponed 45th Reunion. Ten classmates were able to make the call and everyone was pleased to see the progress of the Thorpe Field trees and aerial photo of the campus. We are all rooting for **Karl Witmer** who missed the call by being out of cell phone range at about Mile 534 northbound on the Appalachian Trail, somewhere in Southern VA.

1984

Bill McEachen: I retired last year, traded "working for the man" for being hitched to my wife's plow. In a massive blow to my ego, my employer replaced me with a 24-year-old with a few years of experience - nice to know I was performing at that level at least! I retired just in time to live vicariously thru my classmate Whitall, fighting

the seven seas, doing everything but harpoon whales. Sounds like Whitall learned the benefit of triple redundancy in parts&equipment. When I am asked how I like retirement, my std response is "It's great, I should have done it 30 or 40 years ago!" Somehow, I missed any opportunity to trade-in my wife for a newer model, so since 1985 she has shouldered every habit of mine that may have driven my 12 classmates nuts. My blue book worth is even less, as having forgotten to sell my soul, I am aging like Dorian Gray's portrait... About to have solar installed on our roof, we now have e-bikes, and I was lucky enough to see our 47' MLB established in the Coast Guard fleet. "Semper Paratus."

1988

Ian Bush reports that after COVID hit, he worked with NASSCO management to support as many winter work Webbies as possible. A total of nine (six freshmen and three upperclass students) came out for the winter. That's an all-time high for the yard!

Steve Pagan: I returned from Korea in April 2021. I was supposed to be there for another year, but the project staffing changed, and I got sent back home in a hurry. Now I'm an internal consultant for Chevron Shipping, working on several different upstream projects. I'm now fully vaccinated!

And if you hadn't noticed, our very own **Manuel Hontoria** was elected to the Webb Board of Trustees. Congratulations, Manny!

1993

Erik Nilsson reported the disappointment of his family (hand built) ME summer house unfortunately having burned down. This devastating news outshined by the joy of his daughter, Robin, graduating from Cornell College and landing a great



The fire at Erik Nilsson's summer home.

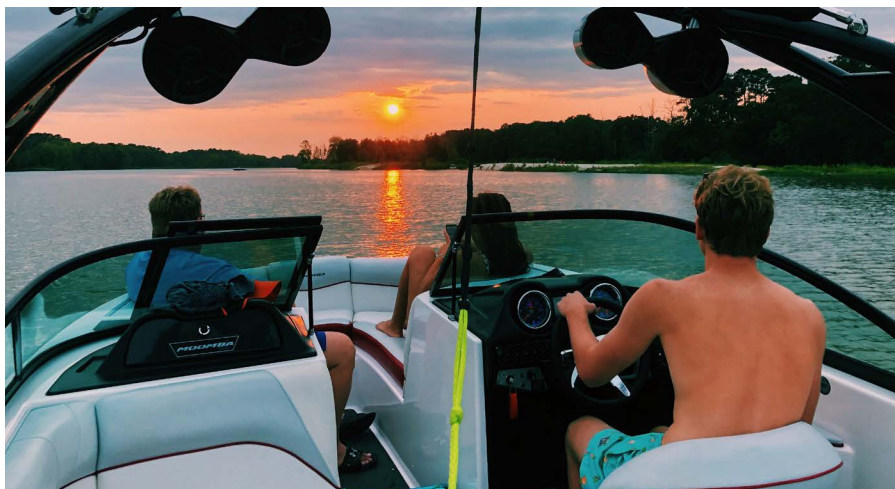


Erik Nilsson's daughter, Robin, graduating from Cornell College. summer home.

job locally in Southern FL. Son, Jake, graduated High School and headed to Florida State University in the fall.

Nick Jadamec reports that son, Baylis, graduated from the University of Southampton in July 2021.

Matthew Denson and wife **Jenelle** moved to a new state this year. Now they have daughter's family in the same place, which means they welcomed their third grandchild in April - in person. Having grandkids local is the best!



Jake Neuman and his kids enjoying his new wakesurf boat (above and below).



Ben and Debbie Rising proud of Wes for graduating high school and heading to Northeastern University in the fall.

Joe Corvelli had a Virtual blast from the past for his 50th. **Jill** threw him a "this is your life" game show Zoom where friends called in under fictitious personas to describe experiences for him to guess the speaker. Joe, instead of showing off intellect and guessing quickly, generally tortured the speakers to go on and on about fun times with him.

Jake Neuman, under duress of COVID isolation, was pressured by his teenagers to purchase a wakesurf boat at the peak of the market. Countless lasting, expensive memories in 2020 on this

boat. "I really love the fact that boating is infused and bonds our family!"

The **Fillings** are out and enjoying social cruising again in 2021 on their boat with daughters and it seems countless dogs now.

2004

Candace Miano, her husband **Dan**, and two sons Luca and Landon relocated from Denver to Huntsville, AL, around Thanksgiving time of 2020 to be closer to family.

Kate Munkenbeck and her husband **Colby Farris** welcomed their son Patrick into the world in October of 2020.

Matt Unger, his wife **Brandy**, and big sister Saylor welcomes sweet baby girl Emersyn (Emmy), born in March of 2021.

2007

Kathleen Minnich (in April 2021) was selected as the Principal Assistant Program Manager (PAPM) for the Landing Craft Division in the Amphibious Warfare Program Office at NAVSEA in Washington, DC with responsibility for acquisition of the Landing Craft, Utility (LCU) 1700 class

and in-service support of the legacy Landing Craft, Air Cushion (LCAC) and the LCU 1610 class.

2008

Sarah (Patrick) and Vince Wickenheiser welcomed their daughter Margaret in August of 2020. Big brother Peter is teaching her the ropes (below). **Adam and Kristin van Doren** moved to Jacksonville in March for Adam's new role as Manager of Data Analytics at Crowley Maritime.



Mark Exner continues to work offshore and is enjoying life in TX. Colleen and Kelsey are going to school together at a Montessori school, and Kelsey was just enrolled in kindergarten starting this fall. They're growing up too fast.

Leah Sosa was engaged to Richard Barrett in September 2020. They are expecting a baby girl this October.

2009

John Wise and his wife **Shan** are all settled in as a family of four. "My oldest, Perry, is just as excited for the vaccine as we are, so he can see all of his Webb uncles and aunts in one place!"



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Leah Sosa with fiancée Richard Barrett.



Stefan & Shannon performed during their Seattle wedding with their amazing band.



Lauren's daughters Hannah (4½) and Emily (2) love living in California.

Lauren Kadlec and her husband are both still active-duty Navy. Lauren is currently finishing up her master's in mechanical engineering at the Naval Postgraduate School.

Niko Martecchini realized that a year at home had left him and **Kate** without many updates but, "we'll have some fun updates for the next edition!"

Josh and Elisti McMinn went COVID crazy and decided to relocate to the

tropical paradise of London, England. "We were European for two whole days before Brexit took effect and Brussels disavowed us. Happy to be living abroad again and ensuring our kids will be asked about their strange accent for the rest of their lives. As the world reopens, we are open to any Webbie stopping in for tea and crumpets."

Rachel Sawyer moved from Carderock to NAVSEA and is enjoying her new job.

Robert and Lindy Carelli moved to New London, CT, over a year ago and recently adopted a very cute 'cow cat' named Coco. They recently joined Captain Jon Ward on an expedition to the Dry Tortugas.

Andrei Mouravieff and Veronika adopted Toby, a six-year-old Pekingese mix, during the pandemic, and were excited to recently reunite with Ilya '16, Lidia '11, and Jonah (Class of 2042).

Stefan Wolczko and Shannon got married in early 2020 in what turned out, for many, to be the last big Webbie gathering until the summer of 2021. "Literally nothing else has happened." **Jon Ward** has been sailing around the Florida Keys for the winter entertaining



Robert, Lindy, and Jon exploring the Dry Tortugas National Park.

guests wanting to escape the cold on his Tartan 40 named *Parcel of Rogues*. He is currently working his way north to Long Island Sound and New England for the summer with his cabin boy, **Bret Smart**.

Andrew and Michelle Harville sold the 'tiny home' they built in Tomball, TX, and are on to their next adventure together with Harvey who recently turned four.

Wombi Rose recently bought a house outside Boston that will allow him and **Su Young** to grow their chicken flock exponentially. They are looking forward to moving in at the end of July and entertaining Webbie visitors.



Jon Dowsett and **Jessie** bought a house in Rowayton, CT, in early 2020 and are still hoping to have a housewarming more than a year after moving in. "We were lucky to get to see a few Webbie friends during COVID, including a long weekend with Jon Ward and Dan Wilson on the *Parcel of Rogues* in and around Key West."

Rorie Zuzick is doing well and says hello to all.

Austin French is growing all sorts of plants and vegetables at his house including some excellent salsa-making peppers that pair nicely with the many rums he stocks his bar with. He is, of course, still baking pies whenever needed.

Phil Duerr had the following to say: "Alana, Isaac, and I welcomed Sabrina Rose Duerr to our family on March 15th. We are all doing well (although Alana and I may be a little tired). Best of all Isaac is very excited to be a big helper and an older brother. We aren't sure yet what our summer plans hold, but we hope that things continue to improve and that we will be able to see more of our friends in person this coming year."



Laura Lambertsen's son, Bruce, was just six months old when this photo was taken and is already well on his way to two years old.

Diana Look is enjoying the Boston Webbie-sphere with her dog Voodoo.

Laura Lambertsen's son, Bruce, is on his way towards two years old. Laura hopes everyone is doing well.

2010

Alex Scott earned a Master of Science in Mechanical Engineering and a Naval Engineer's Degree at MIT.

Simmy Willemann: During the pandemic I took a break from Macs to lead the ramp up of a new test kit factory in Carlsbad, inspiring me to make a career change to humanitarian and environmental work. I just joined Apple's environmental org to drive environmental initiatives and is working on getting the company to carbon neutrality by 2030. My boyfriend, Keith, and I, have spent the past year living in the foothills of the Santa Cruz Mountains. We can't wait for live music venues to open up soon! In the meantime, my musical repertoire has catered to playing on the street for neighborhood kids who can't get enough of Frozen or Ode to Joy (below).



2011 & 2012

Lidia '11 and Schuyler Needham '12 have enjoyed navigating through parenthood with Jonah and are looking forward to meeting his little brother or sister at the end of the summer!

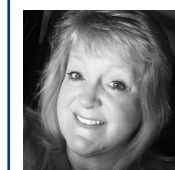
2014

Rachel Walker and **Sam Granger** were married on March 19, 2021, in a small ceremony held in Seattle, WA (below).



2020

The Class of 2020 is hopeful to reunite and celebrate their long-awaited graduation on September 18th. Although no diplomas yet, they did design and have made their own class ring which they received in May this year (below).



Please send class notes directly to Gailmarie Sujecki at:
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