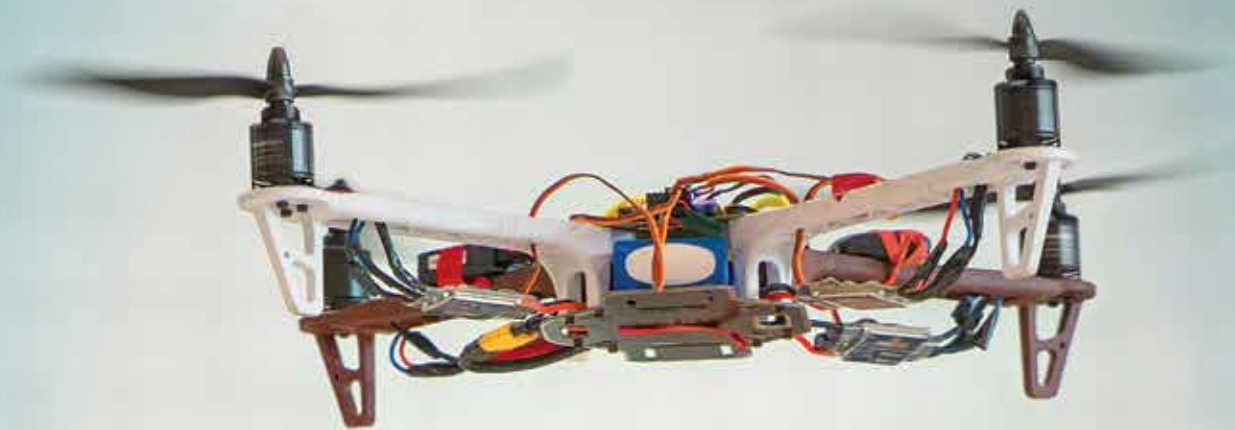


Vaughn

COLLEGE MAGAZINE SPRING 2016



REACHING NEW HEIGHTS

Vaughn Advances Drone Technology



Circuitboard of a drone built by Vaughn's
Unmanned Aerial Vehicle Club.

VOL. 17 | NO. 1 | SPRING 2016

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SOCIAL MEDIA

Join the Vaughn College communities on Facebook, Twitter, YouTube, Instagram and LinkedIn:

-  facebook.com/VaughnCollegeAlumni
-  twitter.com/VaughnAlum
-  youtube.com/VaughnCollegeTV
-  instagram.com/vaughncollege
-  linkedin.com/company/vaughncollege

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LEADING THE WAY IN DRONES

One of a Few US Colleges Offering Courses
on Unmanned Aerial Systems

From wildlife photography to pizza delivery, the increased commercial and personal use of unmanned aerial systems (UASs), commonly known as drones, is skyrocketing and Vaughn is leading the way in educating college students about this versatile and exciting technology.

VAUGHN is one of very few colleges in the United States offering classes in drone technology, usage and the legal issues surrounding the industry. The Association for Unmanned Vehicle Systems International estimates that by 2025 drones will have an \$82 billion impact on the US economy.

“UAS technology combines many areas of expertise for Vaughn,” says Dr. Sharon DeVivo, president. “Because of New York City’s complicated airspace, the area has been somewhat slower to consider the many applications available for drones, but there is tremendous growing enthusiasm and we intend to be at the forefront.”

Vaughn jumped into the field with an introductory course on UASs, taught for several years by Joseph Tepedino, a class of 1975 alumnus, and currently taught by Matthew Kelsch of Sikorsky. The College also offers an online drone law course

taught by Loretta Alkalay, an aviation attorney and former regional counsel for the Federal Aviation Administration (FAA). Alkalay notes, “Understanding the FAA’s regulatory requirements and safety guidelines for drone operations is important to maintaining safe and legal operations, whether recreational or commercial.”

Drones are a passion for Alkalay. She has developed a hobby of taking photographs with the drones and her photos were featured in a two-page spread in UAS Magazine. Alkalay notes that the prevalence of interest groups for drone enthusiasts is on the rise as well, especially

among women. Alkalay is a member of the Amelia Droneharts, a worldwide community of female drone pilots that enables members to discuss their vehicles, trade experiences and share photos and videos they capture with their drones.

“As teachers, we also learn from the students,” Alkalay says. “I developed my own interest in flying drones as a result of my students’ enthusiasm for piloting the vehicles.”

Drones were initially developed by the military for a variety of uses. As the technology became more sophisticated, drones became capable of carrying larger items like weapons and sophisticated

DRONES WERE INITIALLY DEVELOPED BY THE MILITARY FOR A VARIETY OF USES. AS THE TECHNOLOGY BECAME SOPHISTICATED, DRONES WERE CAPABLE OF CARRYING LARGE ITEMS LIKE WEAPONS AND CAMERAS.



▲ Vaughn College Adjunct Professor Loretta Alkalay, center, speaks to attendees at Vaughn’s Unmanned Aerial Systems Symposium on Friday, February 19.

cameras. Additionally, the technological advancements have enabled drone usage to expand into a wide variety of industries.

Dr. Maxine Lubner, an FAA-certified pilot, researcher in aviation psychology and chair of the management department at Vaughn notes, “Drones are useful for many purposes including crop dusting, pipeline inspections, search and rescue operations, surveillance, inspecting airline

facilities and much more.” Lubner believes drones offer great promise, noting that the technology has the potential to improve economies and enhance the health and well-being of people by delivering much-needed food or medicine to distant territories around the globe.

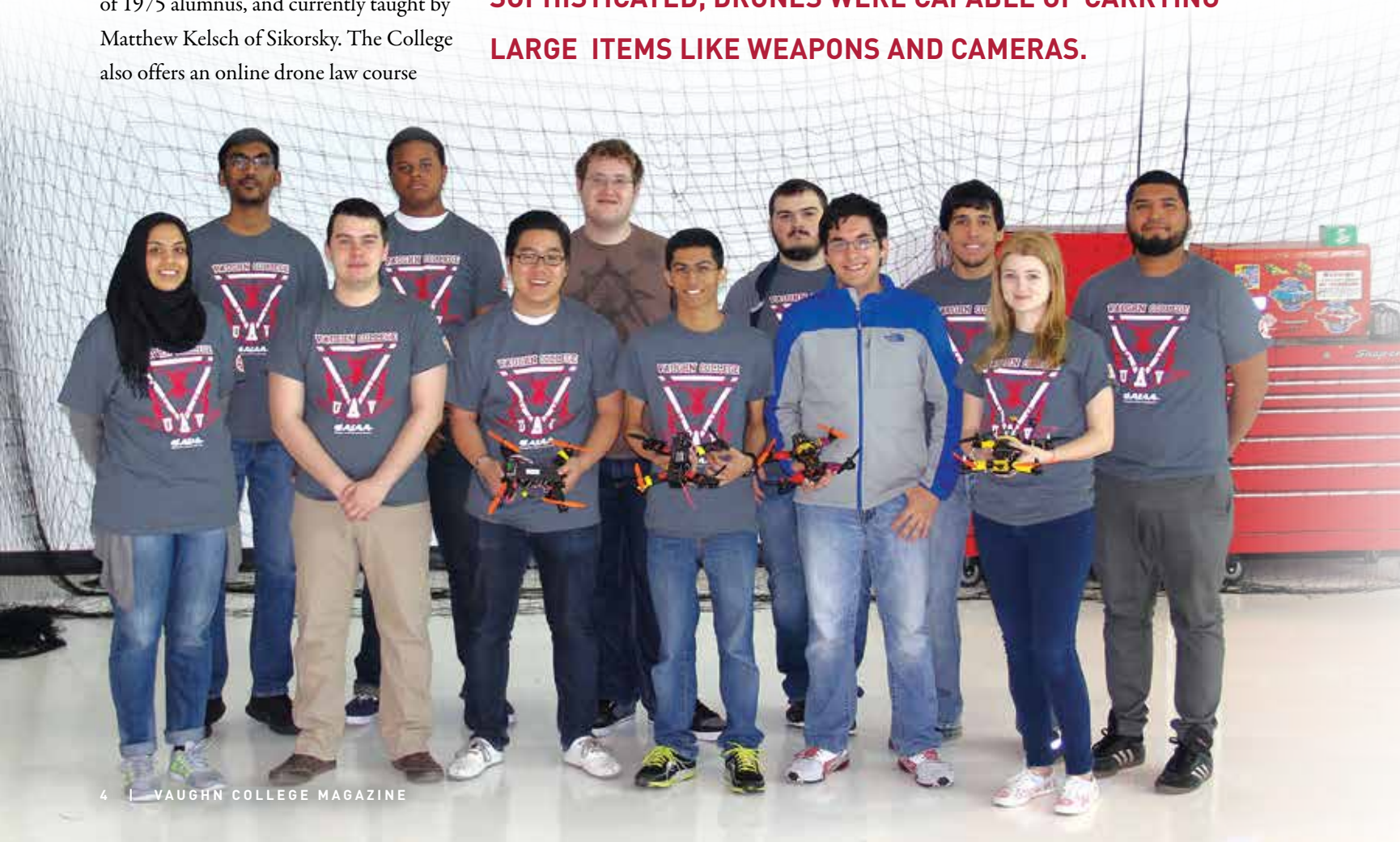
“Professionals can enter varied fields in the drone industry including design, aircraft operations (like piloting), weather

navigation and computer programming, just to name a few,” explains Lubner. Although the US is lagging behind many countries in the use of drones, it is expected that New York City will become a hub for drone technology, with Vaughn at the center of the exciting developments to come.

Vaughn plans to expand its drone curriculum as this burgeoning field develops. The College anticipates future course offerings in engineering, programming, design, piloting and airspace management with multiple entry points from the certificate to the degree level. To further awareness of



◀ (Left) Members of the UAV Club in the hangar preparing for International Drone Day. (Right) A student examines 3D printed parts designed for use in building drones.



opportunities in the drone industry, Vaughn is conducting an Unmanned Aircraft System event to coincide with International Drone Day on Saturday, May 7, designed to encourage current Vaughn students and prospective students, including area high school students and community members, to learn more



Above: A student assembles a drone for a demonstration in Vaughn College’s hangar.
Above Right: Waseem Hussain ’18, left, and Jonathan Zubarriain ’16, founders of the Vaughn College Unmanned Aerial Vehicle Club.
Right: Students learn computer-aided design and programming in Vaughn’s automation technology laboratory.

about UASs. A highlight of the day is the demonstration by Vaughn’s UAS club in an obstacle course set up in the College’s hangar with drones designed by the students, some with parts manufactured through 3D printing. The club got “off the ground” in the fall and already has drones flying and attended the MRO Conference



in Dallas, Texas in April to show off their designs.
For more information about Alkalay’s course in drone law contact Morgan Stewart at morgan.stewart@vaughn.edu or at 718.429.6600, extension 109.

Vaughn only College in the Northeast to Offer **SAFETY MANAGEMENT SYSTEMS** Certificate

Boeing forecasts a doubling of the size of the global fleet in the next 20 years and in order to maintain the highest standards of safety, aviation is integrating safety into every aspect of operations. Vaughn College is the only college in the Northeast offering a 12-credit Safety Management Systems (SMS) certificate program that can also be applied to a degree. The program is designed for current Vaughn College students, alumni and professionals who want to take a fast-track approach to SMS. The goal is to provide graduates with the theory and practical application for roles in the leadership, training and guidance of safety implementation and compliance issues. This certificate program can also be adapted for on-site training and provide employees with college credit.

The Federal Aviation Administration (FAA) outlines SMS as consisting of four functional components that contribute to a safety culture, as outlined below.

Many aircraft accidents are the result of human error. According to Dr. Maxine Lubner, chair of the management department at Vaughn, “Each professional who works for an airline operates within the context of their organization. If the organization is only focused on the bottom line, safety may suffer. A well-designed SMS is designed to mitigate those risks and create more transparency in an organization within all levels of the organization.” For example, if a manager tells a pilot he must make a flight on time, and the pilot is exhausted, the manager is putting the entire plane at risk.



While the FAA has developed guidelines for SMS, the agency does not offer training. Vaughn’s program allows students to graduate with this important knowledge and provides corporate partners with training at all levels of the organization.

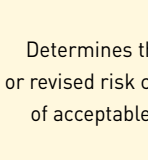
Vaughn’s faculty developed the SMS certificate as the result of a need identified by the industry. Those involved in the collaborative program include Lubner, as well as Dr. Peter Russo, aviation department chair and former chief pilot at JetBlue; Adjunct Faculty Member The Honorable John Goglia, former National Transportation Safety Board member; Loretta Alkalay, former regional counsel with the FAA; and Michael Bartrend, formerly with Pratt & Whitney aerospace company, who also helped the FAA develop metrics and ways of assessing SMS programs.

“SMS can help facilitate a company’s traditional safety program to a dynamic, organizational mindset where safety is a core value,” says Russo. For more information about Vaughn’s SMS program, please contact Morgan Stewart at morgan.stewart@vaughn.edu or 718.429.6600 extension 109.

Safety Management Systems (SMS)



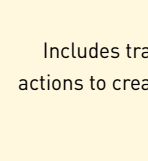
Safety Policy
Establishes senior management’s commitment to continually improve safety; defines the methods, processes, and organizational structure needed to meet safety goals.



Safety Risk Management
Determines the need for, and adequacy of, new or revised risk controls based on the assessment of acceptable risk or implemented risk control strategies.



Safety Assurance
Evaluates the continuing effectiveness of implemented risk control strategies, supports the identification of new hazards



Safety Promotion
Includes training, communication and other actions to create a positive safety culture at all levels of the workforce

CAREER SERVICES MAKES CONNECTIONS FOR STUDENTS AND GRADUATES

HAVING A JOB in your field a semester before commencement is every graduate’s dream, and it can happen when students start the process long before donning their cap and gown. Vaughn College’s office of career services, under the leadership of Executive Director Philip Meade, provides opportunities for Vaughn College students to find great internships and secure employment with companies in engineering, aviation and technology. By assisting students with their résumés, building confidence for job interviews, assisting them with internships and ensuring they take advantage of every opportunity, students often find success in securing positions in their chosen field.

“The College has put considerable emphasis on enhancing the internship programs and offerings. We know it gives our students a decided advantage in the job market, and allows students to use the

theory they learned in the classroom in a workplace setting prior to graduation,” said Meade. That emphasis on outcomes is why Vaughn’s rate of job placement or continuing education within one year of graduation has remained over 90 percent for more than a decade. Career services has also built an extensive list of companies that seek out graduates with more than 1,150 companies actively recruiting.

An example of recent success is Jefferson Maldonado, ’16, former president of the Vaughn College Robotics Club and a US Navy Veteran. The office of career services helped Maldonado improve his online profile and arranged for him and other students to attend a Society of Asian Scientists and Engineers conference in Philadelphia where he landed an internship with NAVAIR. He completed the summer internship in his junior year. NAVAIR provides engineering

and logistics support for the Navy and the Marines. That internship, coupled with his degree and Navy experience, made for a powerful résumé.

Maldonado is graduating in May and has already been hired as a robotics engineer for a logistics company in Arkansas where he will start to work in June. “I also took advantage of attending other career fairs, including a Society of Hispanic Professional Engineers (SHPE) conference where I applied to a few different companies that eventually helped me get the job of my choice in robotics engineering.”

He credits the education he received at Vaughn College for the ease in which he found this exciting and lucrative new job. Maldonado says, “The company that hired me saw that Vaughn came in number one in the US and number two in the world in the VEX U World Robotics Championship, and they were very

Philip Meade, executive director of career services, right, assists students in the process of finding an internship and landing their first professional position after graduation.



Above left: Jefferson Maldonado ’16 secured a position as a robotics engineer in January and will graduate in May. Above right: Muhammed Noman ’16 secured an internship with Sikorsky Aircraft Corporation through Vaughn’s office of career services.

impressed. The education we received was directly connected to the work we did on our robots, and that is what companies are seeking.”

In December, Vaughn hosts an Internship Fair, among other career fairs throughout the year, where students can network with alumni who have placement opportunities. This year, Vaughn is offering 197 internships and 75 percent of those are paid—a critical factor in helping Vaughn students to decide whether or not to pursue an opportunity.

A native of Pakistan, Muhammed Noman ’16 always dreamed of becoming an aeronautical engineer. Noman interned with Sikorsky Aircraft Corporation, a division of Lockheed Martin, as assistant project engineer of the Blackhawk (S70i) and reported to a Vaughn College alumnus, Chief Engineer Raj Singh ’00. Noman did so well that they offered him a full-time position while he completes his degree, a bachelor’s degree in mechanical engineering technology. “This College has changed my whole life,” he says. “I found great mentors like Dr. Hossein Rahemi and Professor Khalid Mouaouya and I am forever grateful to them.”

Internships also give students experience that helps them fine-tune their career choices. Monica Vanterpool ’17 is currently interning in Los Angeles with the Powertrain Systems Control Division of Toyota working on hybrid vehicles. She served as the president of Vaughn’s collegiate chapter of the Society of Women Engineers and is pursuing a bachelor’s degree in mechatronic engineering. Vanterpool’s plan is to intern next with John Deere, “I want to learn from another company before deciding where I prefer to work.”

Vaughn students complete a career development course in their third semester to ensure career success that includes the following topics: resume writing, networking, tips for job interviews and mock interviews, business and career fair etiquette, the importance of creating an impressive LinkedIn profile, and how to look for jobs using online job listings. If you have an internship or employment opportunity to offer Vaughn students, please contact Executive Director of Career Services Philip Meade at philip.meade@vaughn.edu or 718.429.6600 ext. 189.

Professional associations that have on-campus student chapters:

- 1. Society of Hispanic Professional Engineers**
– Vaughn Student Chapter
- 2. Engineers Without Borders**
– Vaughn Student Chapter
- 3. Society of Women Engineers**
– Vaughn Student Chapter
- 4. American Association of Airport Executives**
– Vaughn Student Chapter
- 5. Women in Aviation International**
– Vaughn Student Chapter
- 6. Institute of Electrical and Electronics Engineers**
– Vaughn Student Chapter
- 7. Vaughn Air Traffic Control Organization**
– Vaughn Student Chapter

ALUMNI | Joe Kamel '11

Joe Kamel '11 had no idea that his dream of becoming an astronaut would actually blossom into an engineering career with the National Aeronautics and Space Administration (NASA) and some of the most prestigious companies in the United States.



▲ Joe Kamel '11 attends an event with his family, Vaughn College President Dr. Sharon B. DeVivo, and immediate past president Dr. John C. Fitzpatrick.

When he first looked into colleges, he wanted to learn how to be a pilot, and he researched Vaughn College and its course offerings in aviation and engineering. After staying at Vaughn for a couple of semesters, he decided to transfer to Spartan College in Tulsa, Oklahoma to learn how to fly. He stayed there for two years from 2007-2009 before returning to Vaughn. "I read that Vaughn was starting this new program in mechatronics which included multiple studies in engineering and decided to return."

His mentor was his teacher, Professor Chao Wei, who first introduced him to NASA and recommended him for an internship with the Cleveland Glen Research Center working on the MARS Rover.

After taking a large class load, Kamel worked on his thesis and with two other students developed a presentation for an American Society for Engineering Education (ASEE) conference in Vancouver, Canada, which Vaughn College funded.

Subsequently he went to Colombia for a Latin American and Caribbean Consortium of Engineering Institutions (LACCEI) conference. "When I came back I was contacted by a student who worked with me about an internship with NASA," Kamel says. This time he interned for NASA in Maryland and worked on the International Space Station repairing broken parts.

"Vaughn's connections helped me obtain internships with prestigious companies, and combined with my presentations at industry conferences, greatly enhanced my resume."

Upon graduation, he got a job with Sikorsky in Connecticut as a design engineer for helicopters. After that contract ended, Kamel moved to Cummins Incorporated where he worked as a control engineer for almost three years in Indiana. From there, he worked on locomotive engines with General Electric (GE), moving to Erie, Pennsylvania, where he stayed for eight months.

After his stint with GE, Kamel went to General Dynamics where he stayed for only three months working on tanks. Now Kamel finds himself in Michigan working for Bosch. He just got a promotion from his previous job as a contractor software engineer to the position of quality control engineer. He is working on testing sensors like those used in driverless cars.

Kamel looks for root cause analysis in field equipment and tests the sensors. He interacts with automobile companies like Chrysler and Ford. He notes, "We want to make sure that the sensors for the system that includes the brakes work seamlessly. I will write reports on the calibrations to make sure that we have thought of everything to minimize any failures in the cars."

Kamel, who enjoys volunteer community service work, did some carpentry work with Habitat for Humanity following a tornado that totally destroyed some local towns while he was living in Indiana. Now he helps his church volunteering to help the homeless and the elderly in nursing homes.

The power of one.

Give \$1 a week and learn the power of one.



Kimberly Silvera '08

Electrical Engineering Technology:
Avionics

National Air Space Area Specialist,
New York TRACON

“I believe that my education and experience as a student helped shape who I am today. Join me and other alumni by donating to the Power of One Campaign – \$1 a week or \$52 a year.”

Make your donation today at vaughn.edu/give-a-gift.
1) \$52 once a year
2) A donation of your choosing

It matters to Kimberly!

Kimberly is a graduate of Vaughn College. She recognizes the value of annual giving and understands that her gift, combined with many other gifts from alumni, add up to help overcome challenges and provide new opportunities for Vaughn students.

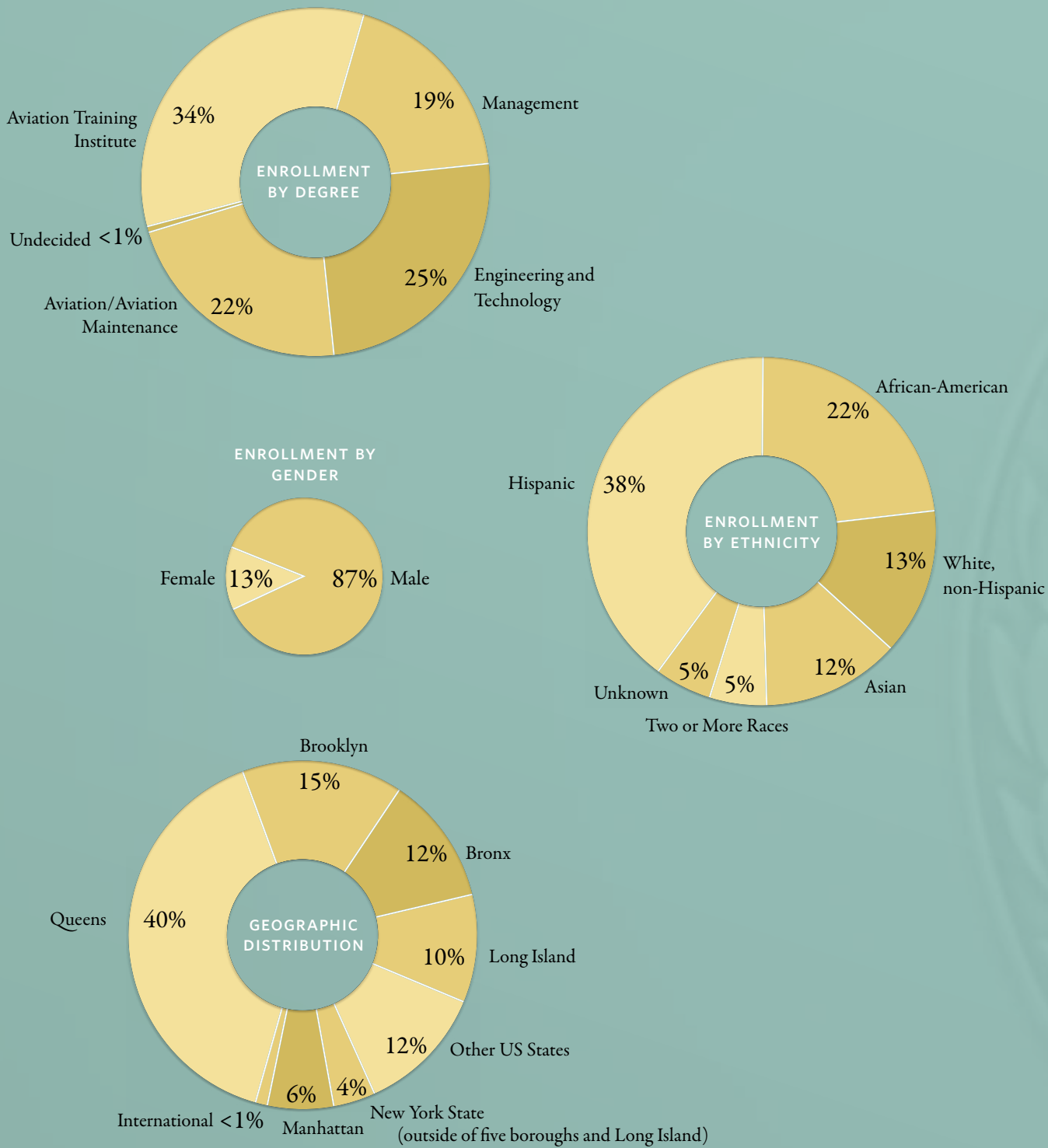
For more information contact Karon Williams, annual fund manager at karon.williams@vaughn.edu or 718.429.6600, ext. 353

VaughnCollege
of aeronautics and technology

VAUGHN COLLEGE REPORT 2014-2015

Demographics, Financial Summary and Annual Fund

DEMOGRAPHICS OF ENTERING FALL 2015 FRESHMEN



FINANCIAL SUMMARY

BALANCE SHEET

	2015	2014
Total Assets	\$107,574,766	\$108,753,716
Total Liabilities	\$60,830,244	\$60,421,519
Total Net Assets	\$46,744,522	\$48,332,197
<i>Comprising:</i>		
Unrestricted	\$14,049,307	\$17,427,071
Temporarily Restricted	\$32,530,376	\$30,740,787
Permanently Restricted	\$164,839	\$164,339
Total Net Assets	\$46,744,522	\$48,332,197

REVENUES AND EXPENSES

	2015	2014
<i>Revenues</i>		
Tuition and Fees	\$31,085,136	\$30,262,186
Less: Scholarships and Fellowships	\$3,758,240	\$3,864,081
Less: Federal Aid	\$192,579	\$105,580
Net Tuition and Fees	\$27,134,317	\$26,292,525
Government Grants and Contracts	\$3,237,843	\$3,812,679
Contributions, Including Equipment	\$269,796	\$121,976
Investment Income	\$393,386	\$433,300
Auxiliary Revenue	\$2,451,637	\$1,952,632
Appreciation (Depreciation) in Fair Value of Investments	(\$491,283)	\$3,078,558
Other	\$1,203,027	\$444,816
Total Unrestricted Revenues, Gains and Other Support	\$34,198,723	\$36,136,486
<i>Expenses</i>		
Educational and General	\$33,000,247	\$31,397,678
Depreciation and Accretion	\$4,576,240	\$3,271,792
Total Expenses	\$37,576,487	\$34,669,470
Change in Unrestricted Net Assets	(\$3,377,764)	\$1,467,016
Increase (Decrease) in Temporarily and Permanently Restricted Assets	\$1,789,589	\$7,273,335
Change in Net Assets	(\$1,587,675)	\$8,740,351

ANNUAL FUND GIVING

THE FOUNDERS CLUB

\$2,500 and beyond
ABNY Foundation
AECOM
AFCO AvPorts Management, LLC
Air Cargo Carriers
Elaine Asch-Root
Aviation Cafe
Bond, Schoeneck & King
Sanjay Chada
Condon & Forsyth LLC
Delta Air Lines
EGC Group
Ensign Engineering
Hershell George
Monroe W. Hatch
International Aviation Womens Association
JetBlue Airways Corp.
John Ciardullo, P.C.
Love Family Foundation
Thomas J. McKee
Oswin E. Moore
Pavon Manufacturing Group, Inc.
Pratt & Whitney Global Service Partners
Jane Rappeport-Weldon
Siegel & Gale, LLC
Roy Simpson
Stalco Construction, Inc.
Starnet Printing
Stevens Strategy
Mark Stitzer
The Port Authority of NY & NJ
The Resource Foundation, Inc.
The Wings Club, Inc.
United Unlimited, Inc.
US Didactic
Valley National Bank
Value Based Initiatives
Peter and Mary Anne Vaughn
George A. Vaughn
David Vaughn
Teresa Vinas
THE LAGUARDIA CLUB
\$1,500 to 2,499
Mauro Amato
ARUP
Aviation Week and Space Technology
Sharon B. DeVivo
John and Deirdre Fitzpatrick
Graf and Lewent
Darragh Kinane
Kinane Painting, LLC

Clyde and Hazel Lee Kizer
Howard & Harriet Love
Marks Paneth LLP
Thomas S. Marotta
Patrick Marotta
Ken Stauffer '83
The New York Botanical Garden
United Way of the National Capital Area
James Vaughn
THE PRESIDENT'S CLUB
\$1,000 to 1,499
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Airport Press
Aviation Development Council, Inc.
Campaign to Win
Judith Cannon
Cook and Krupa, LLC
Barry Eccleston
EPS Consulting
Elizabeth Hlavacek
Telly Hoimes
James McGraw
Robert Moran
Frank Rosenberg
Safe Flight Instrument Corporation
Victoria Salnikoff
Studio Square NYC
USI
Barbara Vaughn
THE CHARLES (CHUCK) E. YEAGER CLUB
\$500 to \$999
ABM Parking Services
Academy of Aviation
Thomas I. Apperson
Aviation Solutions International
Raymond Axmacher
Reid Berch
Boy Scouts of America – Greater New York Council
Colleen Burns
Consolidated Edison Company of New York
Council for Airport Opportunity
Cradle of Aviation Museum
Anne C. Crudge
Famiglia DeBartolo
Design 2147, Ltd.
John Enders
Enterprise Holdings
Famous Famiglia
Ken Gazzola
Myrka Gonzalez
Christopher Han

Kevin Harney
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ICC Logistics Service, Inc.
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Kiwanis Club of LaGuardia
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Pell Wealth Partners
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Sky One Federal Credit Union
The Brickman Group, Ltd.
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\$250 to \$499
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Amy Bonilla '09
Paula Busch
C. Adams & Associates, Inc.
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Beatriz Cruz '05
Earl Dawson '66
Moumouni Dieguimde '01
Amir Elzawawy
Endeavor Air, Inc.
John Goglia
Corrine Graham
Guitjens Associates
Shouling He
Intelligent Technology Group
Janusian Insights
JFK Airport Chamber of Commerce
Phillipa Katerton
Martin Keller
Wendy Lacey
Said Lamhaouar
Maxine Lubner
Mudassar Minhas '06

Khalid Mouaouya '90
Nicholas & Lence Communications
Patricia Ornst
Pamela Ostrager
Laurel Palladino
Vincent Papandrea
Domenic Proscia '94
Queens Latino
Hossein Rahemi
Dean Richards
Lysa Scully
Gerard Sedlak '73
Ernest Shepelsky
Mortimer Sickles '54
Claudia Teich Lepore
Jeffrey Time '03
Robert Waldmann
Joseph Werner '57
Samuel Yates
THE BESSIE COLEMAN CLUB
\$101 to \$249
Airline Vending Services
Susan Aminoff
Marion Blakey
Josephine Calise
Michael and Sherry Chrissanthis '53
Freddie Green '03
George Hogg '68
Raymond Kayume
Vikram Kolluru '14
Donald Parsons '61
Louis Popovich '51
Renee Reso
Steve Roy
Typographic, Inc.
Vendrite Vending Corp.
Amy Willis
THE CHARLES LINDBERGH CLUB
\$51 to \$100
Kenneth Andwood '09
Avalon Florist
Karen Batson '04
Linda Desabato
Bonnie Dougherty
Rosalie Grecco-Golia Or
Anthony Grilli
Pierre Haan '58
Madeline Kuflik
Labor Management Concepts, Inc.
Beth Ann Lacey
Momin Mansoor '14
Kathleen Marryat
Joseph and Mary Mattone
Margaret McGowan

Minuteman Press
Norcal Electric, LLC
Marshall Novick '56
Office Depot
Phoebe Outerbridge
Audrey Pheffer
Georgiana Reese Benatti
Victoria Schneps
Helen Sears
Artin Shoukas '63
Claire Shulman
Matthew & Nancy Silverman
Agam Sinha
Sher Sparano
State Transtours Corp.
Eli Suarez '15
Susan Vaughn
Mary Vavruska
Efrain Vazquez '82
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Clifton Allison
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Aice Davis '15
Vashti Deonarain '03
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Jessenia Diaz '10
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Philip Eisner
Loretta Farley
Felipe Fermin '15
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Daniel Finkelstein '13
Jose Freitas '02
Zechariah Gajadhar '15
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Michael Garcia '14
Robert Gensinger '64
Jo-Ann Glattfelder
Emily Gomes '13
Harold Gonzalez
Tevin Goodridge '15
Nitza Guardado '14
Kevin Guillen
Ravi Gupta '07
Ahmad Habib '13
Tonya Hackaworth
Edda Haeres
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Ruhullah Mehirdel '10
Carlos Montilla
Karen Morales '00
Gagandeep Munder '14
Haseeb Murtaza
Asad Mustafa '13
Andre Nembhard '14
Noemi Nunez '13
Thomas Nunez
Yahay Obeid '05
Robert Olivo '15
Shawn Oosman '09
Hans Ophemphart
Bismark Opoku '15
Ramon Ortiz '15
Fred Parham '83
Cannon Patel '15
Shivany Patino '14
Camilo Daniel Pazos Villamar '15
Standly Pierre '14
Stephan Pierre Jerome
Victor Polanco
Karina Quijano '14
Don Raghunandan '11
Ravishankar Rameswar '12
Juan Ramos '15
Jason Ramos '12
Edgar Rapalo Alonzo '11
Marcus Ray
Liza Reiss
Cesar Revelo '14
Julian Rey
Earle Rhee
Cesar Rodriguez '12
Francheska Rodriguez '15

Jisela Rodriguez
Juan Roman '13
Jennifer Rosati '14
Yelena Rudinskaya '08
Mahendra Sahai '15
Christopher Salcedo '09
Pedro Sanchez '12
Adam Santamaria '11
Luis Santana '08
George Schmidt '05
Souparno Sengupta '11
David Seon '02
Mary Sherwood '15
Emily Shyu '14
Carl Sikora '56
Narinder Singh '70
Kristal Singh '09
Gurpreet Singh '15
Hemchand Singh
Jagdeep Singh '13
Joseph Skinner '14
Francisco Soto
Ruben Suarez '03
Symerix Business Solutions
Jonathan Sypeck '13
Kenia Taveras '12
Kenneth Tejada '13
John Tristani '58
Jennifer Truong '15
Francisco Tunas '11
Camila Turrieta '11
Kayenat Uddin
Ahsan Ullah '09
Jennifer Vasquez '13
Laurentino Vaz Gomes '15
Carlos Velasquez
Stacey Velazquez
Natasha Waldron '12
Frank Wang '92
Kyle Ward Chalk '13
Micah Webb '12
Rosie Worrie
Anthony Zampino, Jr.
Joanna Zyskowska '05

VAUGHN UPGRADING TO CRJ 700 SIMULATOR FOR TRANSITIONAL TRAINING



Vaughn's simulator complex currently houses a Canadair CRJ 200 jet that is being upgraded to a CRJ 700. The new simulator allows the college to offer transitional training to both its current students and individuals already working in the field. The week-long training, which includes lectures and simulator experiences, provides an excellent transition from reciprocating engines to jet engines.

According to Domenic Proscia, vice president of training, "The course work and ability to learn in the simulator environment enables first officer

candidates interviewing with the airlines to be well prepared, since most interviews take place in a comparable jet simulator."

During the College's extensive campus transformation while the simulator was in storage with the manufacturer a decision was made to upgrade the simulator to the 700 series. The simulator will also be utilized to train students in upper level bachelor's degree courses in aircraft operations.

Proscia notes, "At Vaughn, we are proud to offer outstanding facilities and training that help students get off to a great start in the field."

Vaughn obtained the Federal Aviation Administration's Part 141 ground school certification for the instrument rating and commercial license. This was the initial step in qualifying our students to achieve a Restricted-Air Transport Pilot (R-ATP) certificate. An advantage of the Part 141/R-ATP curriculum is that it gives students the extensive training needed to succeed as pilots while simultaneously saving 500 hours of training time and associated expenses." The simulator will be used for training in the fall 2016 semester.



RICKY MCCOLLUM NAMED CO-COACH OF THE YEAR BY REGIONAL CONFERENCE

On Sunday, February 21 Ricky McCollum, director of athletics, fitness and wellness and coach of the Warriors men's basketball team was awarded co-coach of the year by the Hudson Valley Intercollegiate Athletic Conference (HVIAC). McCollum led the Vaughn College Warriors to the best record in program history this season. The Warriors were 16-6 overall and 6-1 in the HVIAC.

McCollum first took over the men's basketball program midway through the 2012-2013 season. With McCollum at the helm, the Warriors have had a .500 record or better every year. He is credited with 50 wins in the past three seasons, the most in program history. He has coached eight HVIAC all-conference basketball players, one HVIAC rookie of the year, one HVIAC player of the year, and one United States Collegiate Athletic Association (USCAA) division II all-american player. He has successfully brought the Warriors to four straight HVIAC playoff appearances and two HVIAC championship game appearances.

Coach McCollum's athletic background is unique. He was a McDonald's All-American basketball candidate in high school, but the multi-talented McCollum accepted a division I football scholarship to play at the University of Connecticut. He has brought a culture of discipline and work ethic to the Vaughn College Warriors. McCollum has trained and developed



MCCOLLUM LED THE VAUGHN COLLEGE WARRIORS TO THE BEST RECORD IN PROGRAM HISTORY THIS SEASON. THE WARRIORS WERE 16-6 OVERALL AND 6-1 IN THE HVIAC.

his staff and student athletes to enhance their knowledge of the National College Athletic Association and the United States Collegiate Athletic Association rules and regulations and Title IX regulations.

McCollum's ability to recruit and retain student athletes has been vital to the growth of the Warriors athletics program. It has allowed him to expand the varsity sports at Vaughn College and to bring the first ever junior varsity men's basketball program to the institution. McCollum plans to continue the athletics program's growth in the future.



FACULTY | Three Long-Serving Faculty Members Honored for their Contributions

They have seen the institution change its name three times, contributed 135 years of total service, served thousands of students and will retire in 2017. Professors Richard Delaney, Gerard Sedlak and Lawrence Paul have contributed to the life of Vaughn College immeasurably and they leave a legacy of dedicated hours of teaching and service. They will complete their teaching commitment to Vaughn at the end of the spring 2016 semester.

“The institution is indebted to Professors Delaney, Sedlak and Paul for their dedication and commitment,” notes Dr. Sharon B. DeVivo, president. “They have spent their professional careers contributing to the growth and education of students as well as the development of their departments. They have also been dedicated to the transformation of this College and we wish them every happiness in the next phase of their lives.”

Delaney, associate professor of the arts and sciences department, has spent 49 years at Vaughn College beginning in 1967 when the institution was known as the Academy of Aeronautics. “I have been involved in many activities that have been integral to the growth of the College. Although most of that time was spent teaching physics, math and computer science, I also supervised the construction that changed the face of the campus in the 1990s,” says Delaney. He has served as a faculty member, chair of the department and dean of college services. As dean he oversaw the first major construction

project on campus completed in 1998 when the two-story classroom building, lobby, hangar complex and the observation tower were added. Delaney earned his bachelor of science from Wagner College and master of science from Pace University.

Delaney has also seen the curriculum evolve over his long career. He notes, “Vaughn College has been known as an innovator in the use of technology and I am happy to have been a part of that growth.” He introduced the use of computer technology into the physics program, labs and computer-assisted measurement equipment, spurring the spread to other technology departments. “The use of computers and the internet has become an important step in education and information access. I am glad to say that Vaughn College and I have always been at the forefront of that effort,” he adds.

When discussing his plans for the future Delaney includes Vaughn College and says, “I feel assured that Vaughn

will continue to grow and be known for innovative educational programs. I look forward to following the narrative of Vaughn in their online postings and returning to the campus from time to time to see the changes.”

Delaney plans to remain in the New York City area for the next several years perhaps pursuing his amateur radio hobby as well as doing some touring of the

Professor Gerard Sedlak



Professor Richard Delaney

Professor Lawrence Paul



United States. He also hopes to possibly return to teaching, a vocation he loves. He says reflecting, “For now, however, I want to lean back and enjoy my family and reflect on the wonderful years I have had at Vaughn.”

As a 1973 alumnus of the Academy of Aeronautics with an associate in applied science in aircraft design, Gerard Sedlak, associate professor of engineering and technology, has a unique perspective on his time at the College. “After graduating, I was very active in the alumni association and through them I was offered a teaching position as a drafting instructor, supposedly as a temporary job. I passed the 40-year mark last September,” he notes. Just before joining the Academy, Sedlak earned his bachelor of science degree from Manhattan College where he later also earned a master’s degree, both in mechanical engineering.

As Sedlak contemplates the last 41 years of his career he remembers the camaraderie and fun between faculty members including the joke of documenting

experiences in a book called, “As the Prop Turns.” He also recalls when a colleague and mentor, Dr. G. Koenig, rigged his desk so that when he tried to open the top drawer the bottom one would open instead. Other fond memories include attending College activities such as car rallies, ski trips, staff barbecues and Christmas parties. “I also enjoyed meeting visitors to the College, including General Jimmy Doolittle, astronauts and others,” he adds.

When asked about how the school has improved during his career, Sedlak says, “The biggest change is having the granting of a wide array of engineering and technology degrees. This institution went from slide rulers to MatLab and CATIA!”

After retiring, Sedlak plans to act as a caregiver to his mother, renovate his house and focus on keeping his wife and himself healthy. He adds, “I will remain active as I belong to the American Institute of Aeronautics and Astronautics and the American Society of Mechanical Engineers, and I am a lifetime volunteer and board member of the Kent Volunteer Fire

Department. I also plan to stay in touch with Vaughn College.”

Lawrence Paul began his career with the College in 1969. In 47 years he has seen great change at Vaughn. He enthuses, “We have much smaller classes and so many more exciting programs that keep in line with the latest career opportunities.” Paul received his bachelor of science degree from Stony Brook University and his master of arts from Queens College. Prior to the Academy, he worked for the US Naval Applied Science Lab in Brooklyn where he worked on computer-driven tactical displays and other mathematical modeling programs.

When Paul began his career the College was only offering two-year degrees and all in aviation. Paul says, “Now there are so many more programs in engineering and other areas, like technology.” As a math and physics teacher, Paul admires that the students are hard-working and determined. As for his colleagues throughout the years, Paul notes, “Everyone gets along very well here. It’s always been a really nice place to spend my career.”

Paul plans to stay connected to the place he has called his professional home while also volunteering his time to causes in his community. He will also continue his hobby of working with sound systems.

The Vaughn community is grateful to these three men for their teaching, service and role in developing courses and degrees that support the next generation of leaders in aviation, engineering, technology and management.

STUDENT

Leudy Castro '18, Veteran Student, Given Special Service Award for Heroism



◀ Leudy Castro '18, center, receives a special service award from Veterans Organization President Jonathan Hernandez '17, right, Veterans Organization Vice President Gregory Bianchini '17, left, and Aviation Department Chair Dr. Pete Russo.

surgery and was recovering. They call us heroes but I think anyone in the same situation would have tried to do the same thing to help a person in trouble.”

After the incident Leudy was proud to receive the Soldiers Medal for Valor, the second highest medal awarded by the US Army. The Soldiers medal is often presented by the Vice President but since Leudy was studying at Vaughn he received the medal in the mail along with a leather-bound certificate signed by the Secretary of the Army, John McHugh, stating that the President had awarded him the Soldiers Medal for Heroism.

Castro says, “I am so thrilled to have been honored this way by both the US Army and Vaughn’s Veterans Organization.”

Castro, a father of three, is working toward his Federal Aviation Administration Airframe and Powerplant certification. He says, “Vaughn’s Veterans Organization has been very helpful to me in securing benefits and assisting me with various administrative questions. I have been very happy studying at Vaughn and am confident that my education here will greatly assist me in future career opportunities.”

A Special Service award was presented to Vaughn student, Leudy Castro, a veteran of the United States Army, for his outstanding community service after pulling a civilian out of a burning car. Castro received the award from the president of Vaughn’s Veterans Organization, Jonathan Hernandez, and the Organization’s Vice President, Gregory Bianchini.

While driving back to Camp Frank Merrill in Georgia, Specialist Castro, Sergeant Tamyus Barnett and Specialist Darian Haygood came upon an automobile accident on the Interstate in Harris County Georgia. A small car, that had collided with a fuel-carrying 18-wheeler, burst into flames. Leudy and his fellow soldiers pulled the injured driver from the burning car and moved him to the median to keep him safe from the blaze until emergency personnel could arrive. They then moved their own vehicle into the median to help shield the driver in case the fuel truck exploded from the car’s flames.

The team proceeded across the Interstate to stop traffic until the police

were able to get to the scene and they administered aid to the ailing driver until emergency help arrived. The 18-wheeler exploded several times.

The soldiers stayed at the scene assisting in every way they could until the driver was helped by emergency medical personnel, the fires were extinguished and traffic was being controlled by the police.

Castro noted, “After the first responders got to the scene, we all just pitched in wherever we could help. Our army training was key in being able to provide assistance during this emergency. We had to move quickly and acted on instinct. We made do with whatever the onlookers could offer; clearly our goal was to help keep the driver safe and alive and prevent anyone else from harm.”

That same night at the Camp, the three heroes received special thanks from senior officers and their fellow soldiers. Leudy said, “The wife of the driver called the Camp and spoke to Sergeant Barnett. She thanked us all for bringing her husband to safety. Fortunately, her husband had

VAUGHN COLLEGE

Gala
RAISES MORE THAN \$220,000

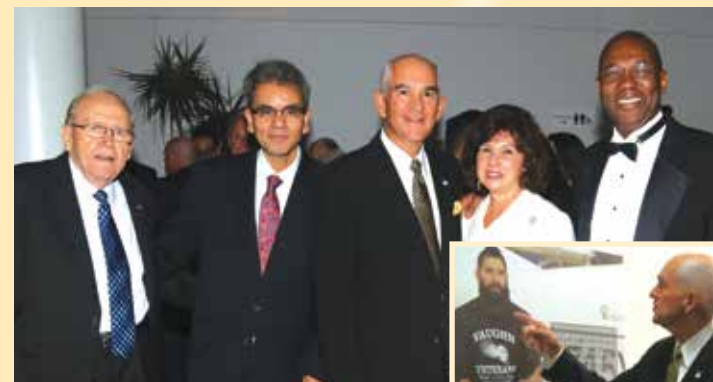
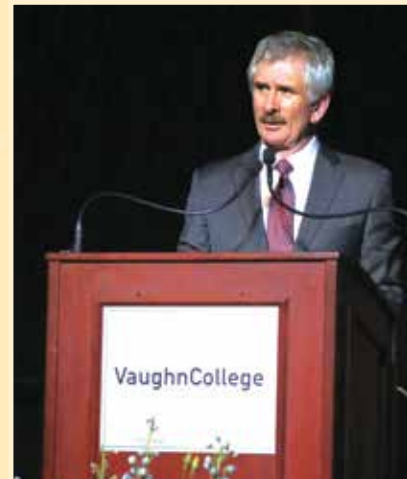


▼ President DeVivo poses with Board Member Peter Vaughn and award recipient Barry Eccleston.



The 2015 Vaughn College Gala honored the President of Airbus Americas, Barry Eccleston, for his leadership and dedicated support of the aviation industry and the College at Vaughn’s annual Gala on Thursday, November 5. The proceeds from the Gala were used to fund scholarships and institutional priorities. “We honored Eccleston for his transformational leadership at one of the world’s top aircraft manufacturers and for his belief that Vaughn is transforming the lives of students,” said Vaughn College President Dr. Sharon B. DeVivo. “His values of delivering results for customers, his concern for quality when working with the supply chain and providing pathways of success for those who follow him are exactly the values we strive to instill in our students.”

▼ Gala honoree and Airbus Americas President Barry Eccleston addresses the crowd.



▲ Board Member and alum Joseph A. Werner '57; Vice President of Student Affairs and Academic Support Said Lamhaouar; Board of Trustees Chair Thomas McKee, his wife Trisha McKee, and Board Member Oswin E. Moore.



▲ Vaughn student ambassadors attend the Gala.



◀ Board Chair Thomas McKee and guests peruse student photos.

SAVE THE DATE!
NOVEMBER 10, 2016

Join us for Vaughn's next Gala honoring **Marion Clifton Blakey**, president and chief executive officer of Rolls-Royce North America.



CLUBS

BRING STUDENTS TOGETHER

▲ **VAUGHN HOSTS HUNGER BANQUET TO RAISE AWARENESS OF GLOBAL ISSUES** Vaughn College’s first Hunger Banquet was led by students from Circle K, the Student Government Association and the Leadership Academy. The banquet joins a global effort led by OxFam, an international group of nonprofit organizations working in 94 countries to fight poverty and promote social justice. Part-fundraiser and part educational program, the goal of the Hunger Banquet was to raise awareness about hunger-related issues around the world and right here in New York.

▼ **VAUGHN STUDENTS CHAPTER OF ENGINEERS WITHOUT BORDERS FOUNDED ON CAMPUS IN SPRING 2016** Engineers Without Borders is a student organization founded in Spring 2016 that promotes volunteer work and student engagement through events and activities. Some of their largest events include a professional writing workshop, Family Game Night and a bicycle generator project, intended for use in conjunction with a music concert in the fall semester, which will be fully powered by electric bicycle generators created by the club. The prototype was unveiled on Tuesday, April 26, during common hour in the main lobby.



▼ **VAUGHN STUDENT ORGANIZATION HOSTS STEM DAY FOR GIRL SCOUTS OF AMERICA** Vaughn hosted a science, technology, engineering and mathematics (STEM) event for the Girl Scouts of Greater New York Nassau and Suffolk Counties to encourage a greater focus on STEM education for young women. More than 100 girls attended the event, learned about Vaughn’s offerings and heard from guest speaker and alumnae Jade Kukula ’07, senior systems engineer at Lockheed Martin. Eight workshops were conducted and student volunteers from the Society of Women Engineers, Women in Aviation and the Robotics Club participated.



PUBLICATIONS

STUDENTS

Vaughn’s students recently presented papers at multiple conferences with mentor support from the engineering and technology department associate professors Dr. Shouling He, Dr. Amir Elzawawy and Dr. Hossein Rahemi, department chair.

122nd ASEE Annual Conference, Seattle, Washington

> “3D Printer from Scratch Made with E-waste” by William Babikian and Terry Beesoon

> “Developing Courseware for Robotics in Pre-College Engineering Education” by Nicholas Kumia and Jonathan Zubarrain

13th Latin American and Caribbean Consortium of Engineering Institutions, LACCEI2015, Santo Domingo, Dominican Republic

> “Smart Cross” by Wasif Iqbal and Kazi Ahmed (Recipient of the first place paper award and second place poster award)

> “Improving the Cooling Process for Electronics Using Synthetic Jets” by Damian Gaona. (Recipient of the second place paper award)

> “Analysis of Impulsive Natural Phenomena through Finite Difference Methods,” by Nicholas Kumia and Christopher Chariah

> “Tensile Machine User Interface” by Zechariah Gajadhar, Anjali Dhobale

> “Damping and Natural Frequency of Beams” by Mohammed Ayoub

AIAA Region I - Student Conference at Virginia Tech

> “CFD Investigation of Multiple Airfoil Flaps and Slats Configurations for Take-off, Cruise and Landing” by Camilo Pazos and Napoleon Rodriguez

IEEE-WIE Summit USA East Conference, Philadelphia, PA

> “Wearable Electronic Devices” paper was presented by SWE Vaughn College Chapter

14th Latin American and Caribbean Consortium of Engineering Institutions, LACCEI2016, San José, Costa Rica

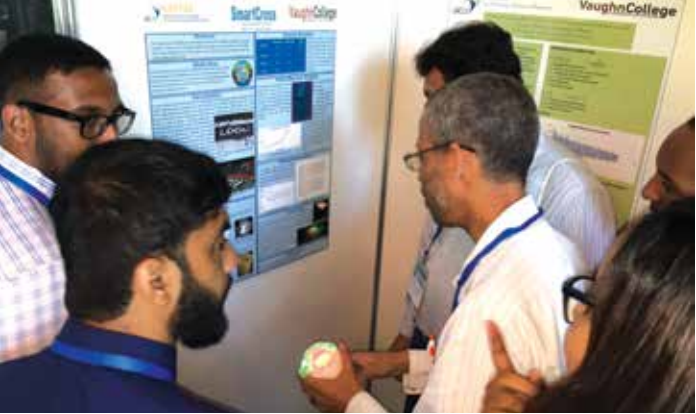
> “Use of Bio-Composites for a Milling Machine Table” by Jonathan Shakhmoroff and Damian Gaona

> “Engineering a Universal Hex Key to Optimize Work Efficiency” by Bobby Tang, Nicholas Kumia, Waseem Hussain

123rd ASEE Annual Conference, New Orleans, LA

> “Automated Pill Dispenser” by Christopher Chariah, Nicholas Kumia, Jonathan Zubarrain.

> “A Braille Clock” by Saneela Rabbani and Josiah D’Arrigo



▲ Students present research at 13th LACCEI Conference in Santo Domingo, Dominican Republic.

FACULTY

Vaughn faculty research was recently presented at the following conferences and published in the journal of the International Assembly for Collegiate Business Education.

123rd ASEE Annual Conference, New Orleans, LA

> “Teaching PLC Programming and Industrial Automation in Mechatronics Engineering” by engineering and technology department Associate Professors Dr. Shouling He, and Khalid Mouaouya and Dr. Hossein Rahemi, department chair

> “Microcontrollers for Non-Electrical Engineering Students — Do We Need to Teach Assembly Language” by Associate Professor Dr. Shouling He, Dr. Yuhong Zhang, Texas Southern University and Dr. Fangyang Shen, New York City College of Technology (CUNY)

COMSOL Multiphysics Conference, Boston, MA

> “Multiphysics Simulation using high resolution FSI Modeling to Support Safety and Reliability of New HFIR Fuel at ORNL” by engineering and technology department Assistant Professor Dr. Amir Elzawawy and Dr. James Freels at Oak Ridge National Laboratory

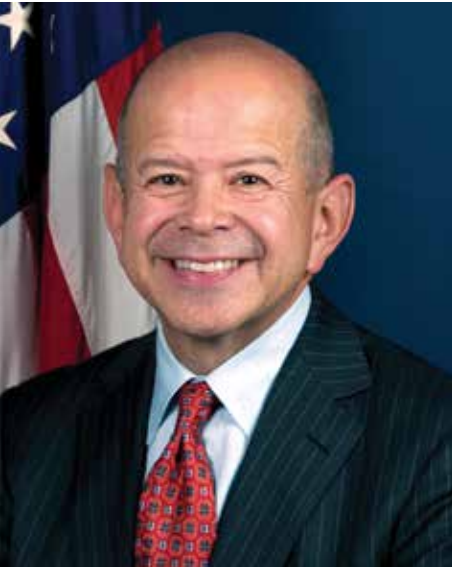
Journal for Excellence in Business Education, March 2016

> “Business Process Models for Higher Education Institutions: Can They Help in Selecting Teaching Technology for the ‘Digital Environment’?” by management department Professor Dr. Peter Canellis and Dr. Maxine Lubner, department chair.



▲ Vaughn College students and faculty at the 123rd ASEE Conference in New Orleans, Louisiana.

Michael P. Huerta, Federal Aviation Administrator (FAA), Delivered Address at Vaughn College’s 84th Commencement



Vaughn College celebrated its 84th Commencement on Saturday, May 21, 2016, in the William B. DeCota Hangar. Michael P. Huerta, Administrator of the FAA, delivered the commencement address to the class of 2016. He was awarded an honorary degree by Vaughn College President Dr. Sharon B. DeVivo.

Huerta is responsible for the safety and the efficiency of the largest aerospace system in the world. He oversees a \$15.9 billion-dollar budget, more than 47,000 employees and the FAA’s multi-billion dollar NextGen air traffic control modernization program.

Huerta holds a bachelor’s degree in political science from the University of California-Riverside and a master’s degree in public affairs, with a concentration in international relations, from the Woodrow Wilson School of Public and International Affairs at Princeton University.

“Vaughn College was proud to have the Administrator deliver the commencement address to our graduating students,” said DeVivo. “He provided some of the latest information on how the FAA is meeting the current and future needs of aviation and aerospace and highlighted career prospects for Vaughn graduates.”

New Faces, New Places

The staff who are in new positions or joined Vaughn College recently:

STAFF

Justin Burmeister
director of facilities from facilities supervisor

Lisa Chong
coordinator, accounts payable and accounting from junior accountant, finance

Aissata Rachida Diallo
acting assistant director, residence life

Janil Garcia
assistant financial aid counselor, financial aid

Jennifer Vasquez
finance and human resource analyst

Calling All Alumni: Help Vaughn College be part of the PayScale College Salary Survey Report for 2016

PayScale is a company that uses crowdsourcing and big data technologies to compile a database of individual salary profiles. We need a strong alumni response in order to be listed as part of this year’s College Salary Survey Report. Use the following link to take the PayScale survey and help Vaughn College get the recognition we deserve: <http://bit.ly/1SRvtgQ>

Be sure to fully answer the questions in the Education and Demographics section of the survey. Once you indicate your degree level you will be able to specifically list Vaughn College of Aeronautics and Technology. The survey deadline is June 26, 2016.



If you have any questions about the survey, feel free to contact Philip Meade philip.meade@vaughn.edu or Jessica Caron jessica.caron@vaughn.edu in the Career Services Office or Neil Gouveia, director of alumni affairs at neil.gouveia@vaughn.edu.



VAUGHN COLLEGE: THE OFFICAL BLOG

ORIGINAL POSTS BY STUDENTS OF VAUGHN COLLEGE

Current research shows that one of the drivers for selecting a college is hearing from current students. In 2015 Vaughn College developed a blog where Vaughn students provide prospective students insight into everyday college life. Students from all programs — engineering, technology, management and aviation share their posts at <http://vaughnblog.com>.

LISA BANDEL ‘17

Bachelor of Science, Aircraft Operations, Professional Pilot



“The Best Thing I’ve Ever Done”

Flying is the best thing I’ve ever done. Being in an airplane several thousand feet above the ground is where I find peace. I know lots of people who are terrified of flying – my grandfather is one of them – but not me, flying is my bliss. Flying will make my day, week, even month a thousand times better.

My goal for 2015 was to complete my private pilot training and receive my private pilot certificate. I can proudly say that, even with all the obstacles in my way, I spent my Thanksgiving break being incredibly thankful for achieving the first of many more certifications to come. I am thankful to my parents who have always supported me, and to everyone who in every little way made this possible: Instructors, classmates, friends. Thank you for the continuous courage and for answering my questions! I am very happy and proud to officially be a part of this wonderful industry and can’t wait for all the challenges to come my way!

Vaughn Adds **ELECTRICAL ENGINEERING** to its Bachelor's Degree Programs



Approved in October 2015, the electrical engineering program is the newest four-year, bachelor's degree to be offered at Vaughn. Enrollment for the program begins in fall 2016.

Students graduating from the program can pursue management, research and instructional careers in a wide range of fields including telecommunication, electronics, signal processing, microelectronics and robotics.

"The program will ultimately expand the engineering department, giving the students a wider range of degree options," said Dr. Flavio Cabrera, assistant professor of engineering and technology.

The energy conversion and smart grid power systems, one of the brand-new laboratories added to support the program by enhancing the classroom experience, allows students to observe and demonstrate fundamental theory pertaining to electrical machines, power electronics, motor drives circuits and controllers.