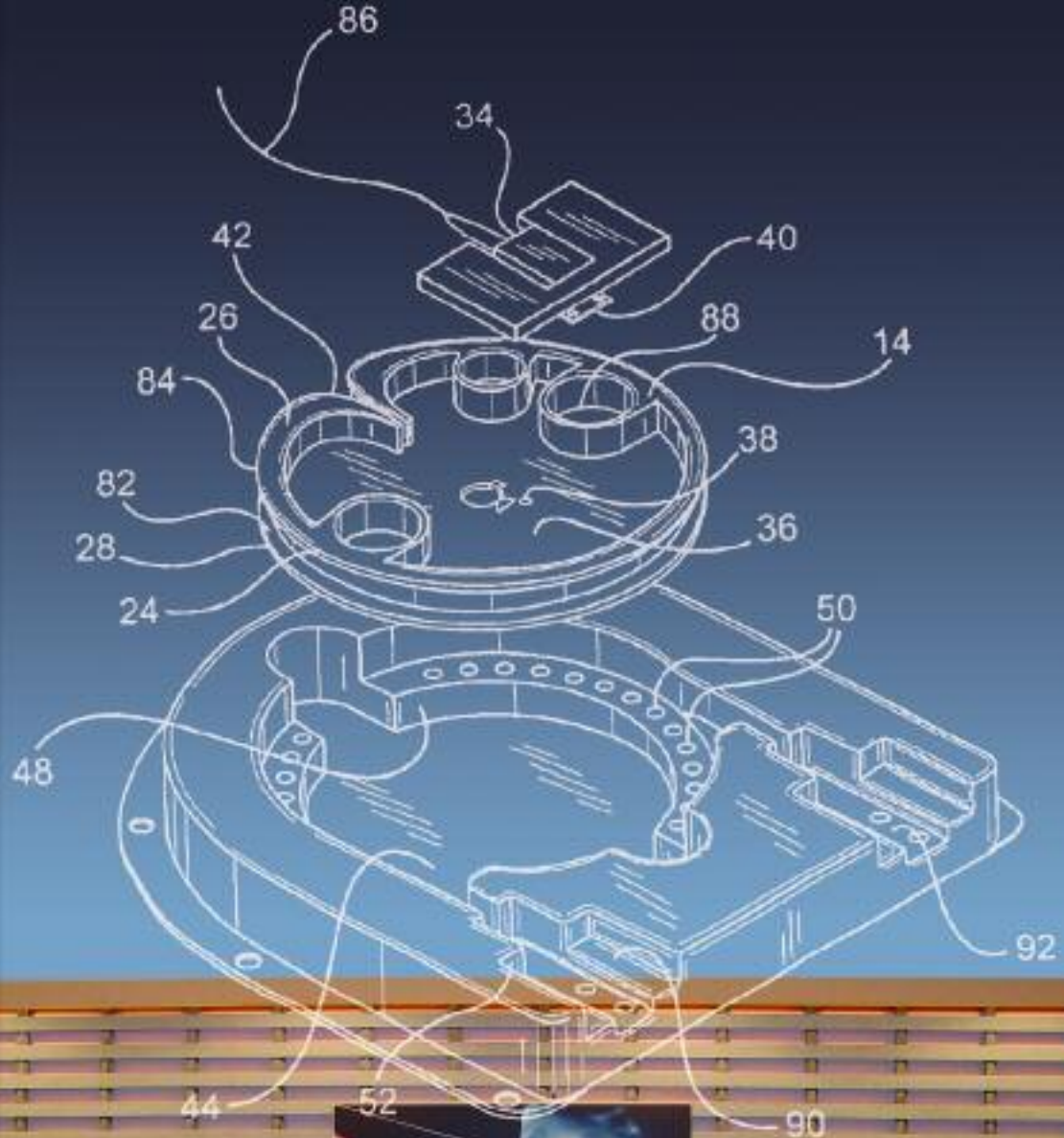


VAUGHN COLLEGE MAGAZINE

for Alumni, Parents and Friends

Volume 1, Number 2 Spring/Summer 2005



'82 Alumnus Granted US Patent

**The President's Report
2003-2004**

PRESIDENT'S MESSAGE



Dear Friends,

In September 2004 when the College of Aeronautics changed its name adding the word “technology” signified a strategic turn in the academic reputation of our institution. It is part of the vision that called for us to expand our program offerings to include engineering programs that are fully accredited by the Accreditation Board for Engineering and Technology (ABET). This board is a specialized accrediting agency recognized by the US Secretary of Education as well as by the Commission on Higher Education Accreditation.

The demand for graduates in engineering and engineering technology remains strong, and our mission is to produce the next generation of knowledgeable engineers who will contribute to the future developments and discoveries that will better the lives of all Americans. In the fall of 2007, we plan to begin a new program, a bachelor of science in mechatronic engineering. Mechatronics represents the merging of components of mechanical, electrical and computer engineering into one discipline.

This exciting event underscores the important role this institution has continued to play in educating the New York metropolitan community since 1932. The expansion plan of our academic offerings also includes our first master of science degree, also to be launched in 2007.

New programmatic changes brings the need for physical changes on our campus which you can read about in greater detail in the President’s Report on pages 4 to 10. A new library/community resource center is needed to support our expanded academic mission. A 200-bed residence hall is necessary to expand our recruitment efforts to such places as Buffalo, Boston, Pittsburgh, Philadelphia and Baltimore. A new student center will provide the food service options and activities space that today’s college student demands. Finally, our new conference center will also allow us to bring our College community together, provide guest lecturer/speaker space, banquet space and a large gathering space for outside community groups.

To support this effort, we are launching the College first-ever comprehensive fundraising initiative, and we seek to raise \$20 million over the next five years to support the transformation of our College. Alumni, and others’, support is critical if we are to see our vision a reality. We look forward to your support.

Best regards,

A handwritten signature in red ink that reads "John C. Fitzpatrick". The signature is written in a cursive style.

John C. Fitzpatrick, EdD
President



CONTENTS

VAUGHN COLLEGE MAGAZINE

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Volume 1, Number 2 Spring/Summer 2005

Vaughn College office of public affairs publishes *Vaughn College Magazine* twice each year, in the fall and spring semester for alumni. For editorial comments please send correspondence to: Office of Public Affairs, Vaughn College, 86-01 23rd Avenue, Flushing, NY 11369. *Vaughn College Magazine* welcomes editorial and art contributions, although the editors accept no responsibility for unsolicited work.

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'82 Alumnus Granted US Patent

Cover Story

'82 Alumnus and His '69 Buick Tell Story of Hard Work, Engineering Ingenuity and Devotion to History.....11
Michael Joseph's racing journeys also depict his philosophy on accomplishment
By Krisztina Kinces Vida

President's Report 2003-2004.....4

Building on the College's strategic plan, the business plan provides the roadmap for implementation4

Financial Statements.....8

Annual Fund Donor List10

Features

The President's Report11
Building on the College's strategic plan, the business plan provides the roadmap for implementation
By Dr. John C. Fitzpatrick

New AAS in Aviation Maintenance Program Offered Online2
This new degree program will provide all those who have obtained their airframe and powerplant (A&P) certificate the opportunity to obtain an associate's degree quickly and conveniently
By Helene M. Brooks

Professor Puts a Social Spin on a Highly Technical World3
A liberal arts professor's goal is to create an open atmosphere where student views are respected
By Krisztina Kinces Vida

Departments

President's Message.....inside front cover

Faculty Spotlight.....inside back cover

Alumni News and Notes12

A Message from the Director of Alumni and Development.....12

A Letter from the President of the Alumni Association inside back cover

Highlights From Recent Events at the College.....back cover

New Degree in Aviation Maintenance Offered Online

Since 1932, the College's aviation maintenance technicians have trained to service aircraft and engines. Our graduates have secured many leadership positions in the aviation and aerospace industries.

Particularly during World War II, the Casey Jones School of Aeronautics devoted its resources to providing 20,000 skilled technicians for the armed forces.

To this day, Vaughn College of Aeronautics and Technology gives students the education they need to obtain the FAA airframe and powerplant (A&P) certificate, also applicable to other transportation fields.

Some of the institution's students who have obtained the associate in occupational studies (AOS) degree have gone on to obtain their associate in applied science degree, and their bachelor of science degree, in aviation maintenance and aviation maintenance management. For others, the call to work was their priority, and while obtaining a higher degree was desired, the shift work often precluded attending classes on a regular basis.

The goal of this program is to enable more students to complete a degree by delivering an accelerated online program. Beginning in July, Vaughn College will offer web-based courses in 12-week trimesters. For those who already hold the A&P certificate, an associate degree can be completed two years. This fast-track web program provides greater flexibility in scheduling "class" time, as learning takes place in an asynchronous environment – during the week, students can log on at any time of day or night, from any location, and obtain coursework. All that one needs is a computer and access to the Internet.

The associate in applied science (AAS) degree is comprised of 37 credits of core academic courses in the arts and sciences, such as English, world



literature, American government and college physics.

Whether you are a recent AOS graduate, or one who has been out in the work world for some time, you are

welcome to join this new AAS program. Visit our web site, www.vaughn.edu/distancelearning/online for further details, or call the distance learning department at 1.866.6VAUGHN to register.

Online Management Certificate Programs

The College has created partnerships with national organizations to offer online professional certificate programs in airline and airport management to their members/employees. Members also receive a discounted tuition rate.

Partners include The Port Authority of New York and NJ (PANYNJ), which operates many of the busiest and most important transportation links in the region, including John F. Kennedy International, Newark Liberty International, Teterboro and LaGuardia airports. The College is also pursuing partnerships with the American Association of Airport Executives (AAAE) and the National Business Aviation Association (NBAA).

Vaughn College's online certificate programs have been made possible through a grant from the Sloan Foundation. For further information, visit our website: www.vaughn.edu/distancelearning/onlineprograms.

Professor Puts a Social Spin on a Highly Technical World

By Krisztina Kincses Vida

Dr. Jeffrey Surovell is keenly aware of the complexities of the world outside his classroom, where social status matters, inequality exists and individuals' wants often eclipse opportunities to benefit the common good. After all, as a scholar and professor of the social sciences, he is an expert in the development and influence of the hierarchical structures and political systems, incidents of injustice, and oftentimes flawed conventional wisdom that have distorted people's perception of truth over the course of human history. The world inside his classroom, however, is decidedly different—it's stripped of all formalities, titles and preconceived notions of just about anything.

"My goal is to create an open atmosphere where people don't have to feel intimidated, where people are respected for who they really are," said Surovell, who has been teaching full-time at Vaughn College since 1999. "I think a pure, non-restricting environment helps people think more clearly."

Surovell—or Jeff as he prefers to be called by his friends, as well as by his students—describes his approach as free, but disciplined, with an overwhelming focus on attaining knowledge and learning the truth. "My job is to give my students facts, and present opposing views to mainstream thinking to provoke thoughts and discussion." Examining how culture shapes ideology and social behavior is a central theme in all of his courses, which he feels is crucial to identify the essence of core human values.

Whether it be global civilization, American history, international studies, or technology and culture, students in Surovell's classes are encouraged to examine commonly held beliefs by identifying and removing all forms of bias from the discussions. "I would like my students to understand how the nature of culture affects people's



Dr. Jeffrey Surovell, Associate Professor, Arts and Science Department

behavior, how different systems emphasize different values."

His goal is to persuade students to go beyond simply memorizing and learning factual information; he hopes to inspire them to critically assess their own history and the political system in which they live. Evaluating without prejudice the extent to which political systems, cultures and societies embody the values they claim to have is an approach he hopes his students will take with

them into the world outside his classroom. "I try to engender the values of being good people, being socially conscious and politically concerned," he said.

Surovell earned his doctorate in Soviet politics and contemporary Russia at Columbia University. His book *Capitalist Russia and the West*, published by Ashgate in 2000, is the basis for an elective course he developed and now teaches at Vaughn. His book is also used at Cambridge University in England and at his own alma mater in New York City.

Most students in his classes are satisfying liberal arts requirements or electives as part of their degree programs in technology, management or aviation-related fields. He hopes that based on their experiences in his classroom, students will look beyond self-centered goals and seek to combine self-interest with concern for others in a socially responsible and just manner.

Russia—a Case of Capitalist Dependency

Jeffrey Surovell has recently published an article in *NST, Nature, Society and Thought*, a journal of dialectical and historical materialism. The following is an excerpt:

"With the stroke of a pen, leaders of Soviet republics signed the 1991 Belovezh Agreement officially disbanding the USSR and consigning humanity's first socialist society to history. Even if the many mistakes made by Soviet leaders throughout the USSR's 75-year history are acknowledged, the USSR's disbandment, it is argued here, was a grievous loss for left and liberation movements and working people the world over. Given that the USSR was the world's first socialist state, heart of the socialist bloc, and a global superpower, what has happened to that country since its downfall is surely of interest to all—and especially to those on the left. Yet misconceptions about Russia, the USSR's principal successor state, abound on the political right and, sadly, on the left.

There has been apparent uncertainty with respect to Russia's international allegiances as well. It has been widely assumed—including and perhaps especially by some on the left—that Russia is somehow an ally of advanced capitalist countries (ACCs) and at the same time an international maverick that has 'stood up' to the often-aggressive policies of those ACCs. By so doing, those on the left consciously or unconsciously refer to Lenin's dictum that a fierce struggle continuously rages between imperialist powers. Russia's 'opposition' to the ACCs, they argue, is reflective of such a struggle. Post-Soviet Russia, in other words, is both part of the capitalist world and at the same time a major opponent of the ACCs and their policies."



President John C. Fitzpatrick with Honors Graduate Yougashwar Budhoo, '05

Vision – Excellence – Commitment Strengthening our Reputation, Programs and Financial Condition

Vaughn College of Aeronautics and Technology is dedicated to providing a distinctive education to a diverse population of students in an environment that cultivates personal

growth and leadership in preparation for successful careers. We are most proud that we have opened the door to a better life for many first-generation college graduates. The College has been their bridge to employment in an industry seeking outstanding graduates.

The faculty and academic programs of the College place it in a strong position compared to our peers. The faculty brings personal commitment to the students and professional real-world experience to the classroom. Through collaboration and industry councils, leaders from industry have worked with the College to develop rigorous curricula incorporating the latest technology that students will need as professionals in their field.

In the 2003-2004 academic year, nearly 1,300 students were enrolled in aeronautical, technical and management programs leading to a bachelor of science degree; an associate in applied science degree; an associate in occupational studies degree; or the Federal Aviation Administration airframe and powerplant certificate.

The College and the Aerospace Industry

The aerospace industry has a history of cyclical economic and employment behavior, especially in the last several years. However, during these years, Vaughn College enrollment has remained fairly stable and more closely resembles the activity of the US enrollment in degree-granting institutions. One reason the College has been able to avoid the aviation industry turbulence is the shifting of enrollment from a two-year training program to a traditional bachelor of science degree. In 1996, nearly 90 percent of our students were enrolled in an aircraft maintenance-based program. By 2001, that figure was approximately 60 percent, and today it is closer to 40 percent.

One of the key lessons of the College's 2001 strategic planning process was to become vigilantly focused on the external environment and maintain a preparedness to react swiftly and effectively to ongoing changes in the industry.

The College needed to expand its academic offerings through enhanced undergraduate programs, technical and management programs, and the introduction of graduate programs. The College also needed to expand its academic offerings beyond its aviation focus and begin to attract and prepare students interested in other well-paying industries such as electronics, telecommunications and biomedical engineering.

Charting A New Course for Vaughn College

The new vision that has emerged will enable the College to remain true to the 2001 strategic plan and model of two centers of learning while also ensuring that the aviation training program, our foundation and heritage, is maintained. This vision called for the renaming of the College to *Vaughn College of Aeronautics and Technology* to set a new course by preparing graduates in management, engineering and technology.

We believe that our primary industry, aerospace, is entering an exciting new phase of growth and technology, and that there will be a renewed demand for graduates in these career fields. The College has worked diligently with the aerospace industry, through our industry



President's Report (continued)

advisory councils, to identify the skills that they want in their employees. The next step is to provide the curriculum and the campus facilities to prepare our students with the critical thinking, analytical and communication skills necessary to succeed in this new and demanding environment.

To accomplish this, the College will invest \$20 million in capital projects at the campus to transform it into a more traditional campus setting with residential housing. The campus projects include a 200-bed residence hall, a new student center, a new conference center, a new library/community resource center, and the beautification of the campus grounds. Two new degree programs will be developed and will be followed by others as demand matures. The initial new programs will be a bachelor of science degree in mechatronic engineering and a master of science in airport management degree.

An Overall Campus Transformation

The creation of a more traditional campus requires us to invest in both the exterior and interior of the campus facility in order to create an academic environment from what was previously a training space. There are five major capital projects required to provide residential opportunities at the campus, upgrade the facilities, enhance academic programs and take our image and reputation to a higher level.

A New 200-Bed Residence Hall

We know from surveys of current and prospective students that there is significant interest for on-campus housing. We also know that we need on-campus housing options to draw students from a larger geographic market and to provide the traditional campus atmosphere for students seeking that environment.

Initial plans will include a modular approach to the building design, which will house 200 beds. The design will also be flexible enough to add an additional 200 beds. The first residence hall of approximately 60,000 square feet is slated to open in 2007.

New Student Center

We have long wanted to improve the quality and range of food choices for our current student population. A new cafeteria will meet this goal and will enable us to meet the greatly enhanced need for food services by the resident population living in the new dormitory. The new center will be located where the library exists now, thus providing a bright and airy space overlooking the airport, and will



also contain the bookstore as well as student affairs and student activities space.

New Conference Center

We will completely renovate the area where our small auditorium is presently located. The new facility will extend out toward 23rd Avenue and accommodate up to 400 occupants. The space will be designed to function either as one large space or as several divided spaces and can be used for large group functions, events, meetings, or as classrooms. It can also be used for major community meetings and will provide an even greater opportunity to expose the College to the surrounding neighborhood.

New Library/Community Resource Center

A modern, well-equipped library is essential to the needs of a more traditional student body and for supporting faculty and new programs. We will build a new library with a media center and appropriate technology-based resources. The facility will consist of a main floor and a mezzanine area.

Campus Beautification/Closing of Ditmars Avenue

Discussions have taken place with state and local officials to gain approval to close Ditmars Avenue. This will eliminate traffic flow and give the College additional open space and a more traditional campus look. It will also enable the College to expand the current building, providing more instructional space and eliminating the industrial appearance of the exterior.

Port Authority Main Building Maintenance/Soundproofing

Further renovations of the main campus building will take place as part of The Port Authority of New York and New Jersey-sponsored project to mitigate against the impact of air traffic noise on buildings surrounding LaGuardia Airport. This project

President's Report (continued)

will replace most of the exterior windows facing the airport runways and install soundproofing in the building. The cost of this project will be fully funded by a federal grant administered by The Port Authority.



Dr. Jain and Dr. Kizner with students Traci Jones, '03 and Reynold Ali, '03

Student Enrollment

Aviation Training Institute Program

Student enrollment in the Aviation Training Institute program has been somewhat volatile in recent years. During fall 2001, the ATI reached a peak and has steadily declined over the past four years. Other maintenance-based degree programs have experienced a steady decline in student enrollment.

Academic Programs

Conversely, the College's experience in academic program enrollment overall has been relatively more stable than the ATI program. However, there has been variation among degree areas. The associate

in applied science (AAS) degree programs have experienced a slight decline in enrollment, while the bachelor of science (BS) programs area has experienced continued growth. We anticipate opportunities for even further growth in these areas in the future, particularly in terms of new programs, as well as evening and weekend offerings.

New Academic Degree Programs

In order to increase enrollment in these academic programs, we need to strengthen our academic reputation. Creating a main campus center with a more traditional college setting and stronger academic reputation will be a crucial component of the overall strategic plan. Our expanded goals include: attracting a traditional age student who lives beyond the immediate New York City region; increasing the number of women on campus; and attracting academically qualified high school seniors into management, engineering technology and engineering bachelor of science degrees that are practical and focused.

New Undergraduate Program in Mechatronic Engineering

The demand for graduates in engineering and engineering technology remains strong, and our mission is to produce the next generation of knowledgeable engineers who will contribute to the future developments and discoveries that will better the lives of all Americans. I am pleased to announce that we plan to begin a new program, a bachelor of science in mechatronic engineering, in the fall of 2007. The term, coined 30 years ago in Japan, has come to mean a synergistic blend of mechanics and electronics, providing "technology for computer control of mechanical systems at all levels, from toasters to Mars rovers."

Students in the program will focus on the study of the design of systems and the products that are applied in the aerospace and related technology industries.

New Master of Science (MS) in Airport Management

The MS in airport management will provide students the opportunity to pursue mid-career professional positions in the air transportation industry, including airline management, corporate aviation, and airport management and government operations. The goal of this program is to provide knowledge and skills in airport management to cater to the highly safety-oriented aviation industry. Current College students will be able to pursue further studies in this field. This program will also cater to those who have aviation-related work experience and technical training from the military, technical institutes and community colleges. In addition, the business orientation of the new airport management graduate program will appeal to those with an interest in business.

Dr. Naveen Seth with Honors Graduate Natasha Best, '05



President's Report (continued)

This graduate program will enhance the College's existing academic capabilities. The current aviation-related management baccalaureate programs have been extremely successful in attracting and retaining students. A considerable number of graduates from these programs have opted to pursue graduate programs in management at other institutions. In fact, 25 percent of the total number of graduates from 1999 to 2004 are pursuing graduate studies. Members of the current management faculty are qualified to teach graduate-level courses, and the College will use a graduate program as an opportunity to hire and attract more additional highly qualified faculty. Additionally, students graduating from other aviation-related technical programs will be able to pursue a management degree at a higher level. This will better prepare these students to acquire management level positions.

On-Campus Housing

Providing on-campus housing opportunities for current and prospective students is a critical component of creating a more traditional campus. Students will want to come to Vaughn College of Aeronautics and Technology and live on campus for a variety of reasons, including convenience and accessibility, affordability, safety, and access to the exciting array of sights and activities offered by New York City and the surrounding area.

Resident students will also be able to take advantage of living in New York City and all it has to offer, including a vast array of theatre, museums, entertainment, restaurants, shopping, and recreation. In the immediate area around the College there are several museums (Queens Museum of Art and New York Hall of Science), as well as Flushing Meadow Park with Shea Stadium (home of the Mets) and Arthur Ashe Tennis Stadium (home of the US Open). The park also has Queens Theatre in the Park, where the Queens Symphony regularly performs.

Vaughn College of Aeronautics and Technology Brand

An institution's brand is its personality—as its constituents and potential targets perceive it. The 1998 Astin Report on American college freshmen noted that “good academic reputation” is the top criterion for students when selecting their college. The College has been successful in developing many new programs over the years and has attained recognition by the New York Department of Education as a

quality academic institution. Now, we must effectively position the College in the minds of our constituents as a higher quality institution offering broader academic programs such as engineering and graduate programs in management.

With engineering as one of our flagship programs, we will be able to attract a new cohort of academically accomplished students. During the 2005-2006 academic year, we will create a financial aid model, specifically aimed at attracting stronger bachelor of science degree students that will increase enrollment, net revenue, the number of female students on campus and the academic quality of incoming students.

Conclusion

As you have just read, the next several years at the College will be built on our past success while, at the same time, continue the transformation of our institution. We appreciate your support as we seek to raise \$20 million for capital projects. This capital initiative is a significant endeavor for our College and sends a signal to prospective students and their parents about the level of commitment we have to the education of the next generation of graduates. Our new seal includes the Latin words, “*Praescientia et Praestantia*,” which translates to “Vision and Excellence.” Clearly, those words guide us today as we build Vaughn College for the future.



*Dr. Hossein Rahemi, Professor,
Engineering Technology Department*



Aid Awards to Enrolled Students in 2003-2004

Scholarships and Grants

Federal Grants	\$2,417,000
State Grants	\$2,492,000
Institutional Grants	\$524,000
Scholarships from External Sources	\$189,000

Self-Help Programs

Student Loans	\$3,250,000
Federal Work Study	\$154,000

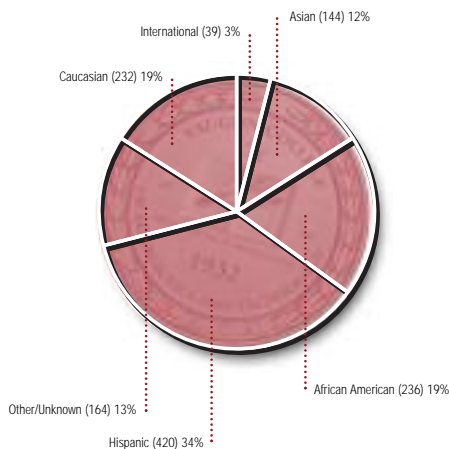
Other

Parent Loans	\$427,000
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Financial Summary Balance Sheet

Total Assets	\$51,625,000
Total Liabilities	22,762,000
Total Net Assets	28,863,000
Comprised of:	
Unrestricted	28,790,000
Temporarily Restricted	8,000
Permanently Restricted	65,000
Total Net Assets	28,863,000

Enrollment by Race/Ethnicity in 2003-2004



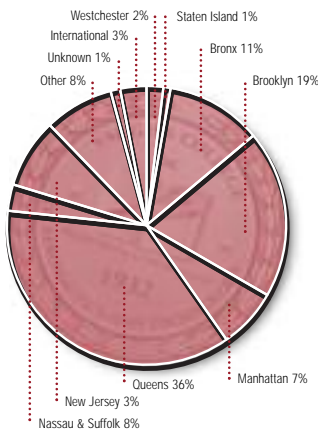
* All figures have been rounded.

Revenues and Expenses

Revenues

Tuition and Fees	12,329,000
Institutional Less: Scholarships and Fellowships	534,000
Less: Federal Aid	267,000
Net Tuition and Fees	11,528,000
Government Grants	2,189,000
Contributions, including equipment	491,000
Investment Income	656,000
Appreciation (Depreciation)	
In Fair Value of Investments	1,869,000
Other	155,000
Total Unrestricted Revenues, Gains and Other Support	18,888,000

**Geographic Distribution of
Enrolled Students in Fall 2004**



* All figures have been rounded.

Expenses	
Educational and General	16,045,000
Depreciation	2,130,000
Total Expenses	18,175,000
Change in Unrestricted Net Assets	(1,287,000)
Increase (Decrease)	
In Temporarily and Permanently Restricted Assets	(45,000)
Change in Net Assets	(1,332,000)

Demographics	
AAS-Aeronautical Engineering Technology	3.3%
AAS-Aircraft Operations	4.4%
AAS-Airport Management	11.6%
AAS-Electronic Engineering Technology – Avionics	2.7%
AAS-Computerized Design and Animated Graphics	1.7%
AAS-Aviation Maintenance	4.6%
BS-Airline Management	1.2%
BS-Airport Management	7.6%
BS-General Management	0.9%
BS-Electronic Engineering Technology – Avionics	2.7%
BS-Electronic Technology – Optical Communications	0.2%
BS-Electronic Technology – General	1.3%
BS-Aircraft Operations	6.5%
BS-Mechanical Engineering Technology	4.7%
BS-Aviation Maintenance	7.5%
BS-Aviation Maintenance Management	1.3%
BT- Maintenance	2.6%
BT- Maintenance Management	1.7%
Aviation Training Institute	29.6%
Undecided/Special	4.0%
Airport Management Certificate Program	0.9%
	100.0%

Male	1111
Female	133



2003–2004 Annual Giving

Vaughn College of Aeronautics and Technology is grateful to its alumni, board of trustees, faculty, staff, corporations and friends for their financial support.

\$325,000—\$50,000

Jetaway Aviation

\$49,999—\$10,000

Jane Love

Elaine Asch-Root

Satcom

Software Association

George A. Vaughn, Jr.

James W. Vaughn

The Founders Club

\$9,999—\$2,500

Susan Baer, The Port Authority of
New York and New Jersey

Barnes & Noble

Edward Darino

Theofanis Gavrilis, '69

Northrop Grumman

John P. Peraza, '60

Charlene H. Schwarz

The Boeing Company

The LaGuardia Club

\$2,499—\$1,500

Reno Angeletti, '53

David L. Babson & Company

Sharon DeVivo

Clyde Kizer

Mensching

The President's Club

\$1,499—\$1,000

Cessna Aircraft Company

Dr. Julian M. Earls

John and Deirdre Fitzpatrick

Monroe W. Hatch, Jr.

Shelley and Jeff Kehl

Morris Sloane

John and Marie Sussek

The Charles E. Taylor Club

\$999—\$250

Michael Chrissanthis, '53

John Davydov, '04

Janet R. DeSimone

John and Sue Enders

Margie E. Gewirtz

Calvin and Kuni Holbert

Graf & Lewent Architects

Albert Longarini, '49

Long Island Chapter of PAMA

MBNA

Raymond Sala, '51

TCE Systems

Robert Waldmann

Joseph Werner, '57

Irene and Bob Zincone, '55

The Bessie Coleman Club

\$249—\$101

Anonymous

ApCom Computers, Inc.

Ralph Hautau

Erwin McCalla, '58

Chee Yeung Ng, '97

Frank Rosenberg

Ronald Rossbach, '53

The Charles Lindbergh Club

\$100—\$51

Joseph Amoroso, '59

Joel Arceo, '81

Michael Bachik, '46

Paul Burnsky, '41

Robert Cherrnay, '54

James Conroy, '82

Albert Gonzalez, '73

Henry Gross, '71

Patrick Hamill, '71

Nick Itsines, '53

John Lozowsky, '55

Ernest Marshall

Daniel McElwain, '47

William Meyer, '68

Edward Miller

Louis Popovich, '51

Jeffrey Porello, '81

Ferdinand Rothermund, '38

Paul Remusat, '95

Edward Sepulveda, '02

Artin Shoukas, '63

Walter Smith, '58

Francis Tedesco, '46

James Tierney, '56

Michael Torns, '78

Bruce Vagts, '65

Stefan Werlinitzsch, '63

Richard White, '42

Stephan Wright, '77

The Donors Club

\$50 or less

Alamo

Barry Burbank, '71

Orest Bodnar, '61

Marc Churgel, '67

John Csady, '61

Paul Deopersaud

Albert DiMarcantonio, '74

Philip Doutsis, '82

Douglas Eastman, '48

Frank Elmiger, '46

Robert Gensinger, '64

Diano Giustozzi, '51

Albert Gonzalez, '73

Marvin Greenberg, '53

John Grossman, '53

Arthur Guiducci, '52

Pierre Haan, '58

Donald Hiestand, '60

John Keilp, '49

Larick Associates, Inc.

Vincent LoBiondo, '86

William Lump, '69

Thomas Mannion, '83

Romeo Mascioli, '70

Richard Murphy

Marshall Novick, '56

Lawrence Palmer, '66

Anthony Pavarini, '56

Robert Rath, '64

Barry Roberts & Co.

James Rodriguez, '62

John Roman, '53

Paul Salmaggi, '60

Vincent Santoriella, '65

Helmut Schmidt, '55

Joseph Tepedino, '74

John P. Tristani, '58

Efrain Vazquez, '82

Orlando Xavier, '72

William Young, '68

Matching Gift Companies

Consolidated Edison Company of
New York, Inc.

United States Steel Corporation

United Technologies Corporation

'82 Alumnus and His '69 Buick Tell Story of Hard Work, Engineering Ingenuity and Devotion to History

By *Krisztina Kincses Vida*

If cars could talk, the 1969 Buick Electra in Michael A. Joseph's garage would tell an analogous tale of the career success of its owner. Joseph drove the same Buick to and from his classes at the Academy of Aeronautics back in 1978. The car is still in mint condition, and he is currently prepping it for a long-distance rally race in Nevada. With its red-tail motif reminiscent of the famed P47 Thunderbolt fighter of WWII, Joseph's racing journeys also depict his philosophy on accomplishment: hard work, ingenuity and devotion to times past.

Every day, Joseph, now a senior project engineer at Corning, Inc., utilizes his more than 20 years of engineering experience on the job. And, he just received approval on his first patent and has another one under review.

Much like his classic automobile, Joseph, a 1982 graduate, boasts impressive mileage (without the wear and tear, mind you) and many successful stops on a career journey that began with his education at the Academy. Following his senior year at Brooklyn Technical High School, he started his studies toward an associate in applied science (AAS) degree in aeronautical engineering technology. Without a high school diploma at the time, he was taking courses at the Academy that helped him satisfy his graduation requirements for Brooklyn Tech. As a result, his AAS and GED were almost in reverse order. But, from the moment he had both, his priorities concerning education and his desire to secure rewarding employment certainly were not.

"After working in low-paying jobs, I realized I needed to go further," said Joseph. He subsequently earned his bachelor of engineering at Pratt Institute and continued his education with graduate-level mechanical engineering courses at Rensselaer Polytechnic Institute and expert system courses at the University of Georgia.

In his current position at Corning—a leading technology company with a focus on telecommunications, flat panel display, semiconductors, as well as environmental and life



sciences—Joseph leads engineering teams that serve all divisions within the company worldwide. He is also a member of the College's Engineering Technology Advisory Board, lending his expertise to faculty in developing curricula and course content for future engineering and technology students.

Joseph's new patent for an optical fiber handling and packaging apparatus and methodology illustrates many different applications for the industry, mainly to reduce breakage and the resulting costs involved in repairing damaged fiber optic components.

Another one of his inventions, at this time under evaluation by the U.S. Patent and Trademark Office, is a single-step fiber preparation procedure aimed at improving the efficiency of manufacturing processes. The device strips plastic coating off fiber making it flat and ready for splicing machinery.

"This method eliminates hand handling [of fibers] and offers up to 70 percent reduction in susceptibility to damage," Joseph said.

Over the course of his career, with the last nine years spent at Corning, Joseph has served as a technical leader focusing on residual stress reduction and large size sheet separation for LCD glass. He has led more than 40 production equipment installation qualifications for Johnson and Johnson, ETHICON, Inc., and performed 24 photonic experiments resulting in process improvements. He also developed ETHICON's first knowledge-based application to troubleshoot processes and equipment. "What has kept me employable all

these years is that engineering skills can be applied anywhere, even in the financial services field," said Joseph, adding that today's students should look for technologies that can have practical, time or money-saving applications in industry.

He advises aspiring engineers to seek out state-of-the-art technologies, study projections for future needs across a wide range of industries and to identify technical areas in which they can apply their knowledge and contribute innovative ideas.

Almost 30 years after he first drove that Buick to the very same campus that hundreds of students now call Vaughn College of Aeronautics and Technology, Joseph still recalls the advice of a faculty member to get involved with professional organizations for learning and networking.

"It was Professor Churchill who first encouraged me to join the American Institute of Aeronautics and Astronautics," he said, emphasizing that active participation in professional organizations and academic honor societies plays a vital role in fulfilling career goals for all who aspire to become innovators in their own right.

At the same time, Joseph's modified Buick also attests to the fact that looking to the past is as significant in life as it is looking to the future. The Tuskegee Airmen theme of his car symbolizes Joseph's lifelong appreciation of history.

After learning about the training and heroic efforts of the Tuskegee Airmen, Joseph became co-historian and officer of the New York City Chapter of the Tuskegee Airmen, Inc., a national organization with the mission to honor the memory and achievements of the first African-American fighter pilot squadron in World War II. "I help preserve the history of the Tuskegee Airmen and keep it alive in people's mind," Joseph said. "Those who have come before us paved the way for us to become successful—theirs' are inspiring stories."

Alumni News and Notes

From the Desk of....



Kalli Koutsoutis
*Director of Alumni and
Development*

“From what we get, we can
make a living; what we give,
however, makes a life.”

—Arthur Ashe

As a member of the first gradu-
ating class of Vaughn College,
or as an alumnus of the Casey
Jones School, the Academy of
Aeronautics, or the College of
Aeronautics, you will take away

from your years at the College an education unequalled and a support network that will be a part of you forever. The education you receive will open doors for you in industry and business, thanks to the dedicated faculty and staff at the College. What we ask is that you do not forget that you, too, can help make an impact on the lives of each successive generation of students who pass through these halls.

Continue to be a part of the College as we grow; join the alumni association; keep in touch with faculty and classmates through the alumni website; attend College events; become part of the College’s mentoring program; continue to expand your horizons through our on-line certificate programs; audit a class — the possibilities are endless. The alumni association has taken shape over the last year and sought to carve its niche in the College community by becoming more involved with the undergraduate student body in order to increase awareness of the benefits of being an active alumnus. The alumni association has worked hard over the past year to establish a need-based scholarship for an undergraduate student and hopes to be able to expand the program in the future.

The College’s alumni website, www.vaughn.edu/alumnirelations, is our way of keeping you connected to the institution after graduation. It allows you to register as an alumnus, connect with the office of career development regarding job placement, and the office of the registrar to request a transcript. It also enables you to make a contribution to the annual fund, update your mailing information, join the alumni association, take a course in one of our new degree programs or on-line certificate programs, and stay in touch with classmates through our message board.

As always, if you are interested in posting your message, personal or professional, in our next issue, complete and mail the attached card, and keep us informed of any address changes so we can update our records. Please contact me with any alumni related questions or concerns you may have at 718.429.6600, extension 142 or e-mail me at kalli.koutsoutis@vaughn.edu.

PS: If you haven’t already done so, please take a moment to make your donation to this year’s annual fund in the self-addressed, postage paid envelope in the center of Vaughn College Magazine. Show your commitment to your alma mater by giving today’s students the same opportunity that you had to achieve!

Alumni Association Meeting Dates 2005-2006

September 21, 2005

November 9, 2005

January 18, 2006

March 22, 2006

May 17, 2006

All meetings take place on Wednesday
at 6 p.m. in the faculty conference room

1942

Anthony DiStefano was a 2005 inductee into the New Jersey Aviation Hall of Fame. After graduation from the Casey Jones School of Aeronautics in Newark, New Jersey, and completion of his military service, Anthony was named director of the Teterboro School of Aeronautics in 1950, a position he held for the next 42 years.

1946

Frank Elmiger was an instructor in the College’s design department in the late 1930s and recently sent his regards to the College.

1952

Jack V. Denman went into the logging business upon his retirement in Neversink, New York. Jack claims it is the home of the very best unfiltered water, which he tries not to pollute with his logging business.

1967

Marc S. Churgel would like to announce the birth of his new granddaughter, Daphne Rose, born on January 4, 2005.

1999

Santiago J. Coba has worked as an airline maintenance technician for Continental Airlines in Orlando, Florida since his graduation.

2002

Elvin Skende is specializing in material planning and provisioning for several airlines.

IN MEMORIAM

1956

John Mulligan of East Hartford, CT passed away on July 8, 2004. He is survived by his wife.

1975

John Joseph Sullivan, Jr. passed away on May 31, 2005. His wife, son, daughter and granddaughte survive him.

2002

Stephen Scott passed away in December 2004 after being hospitalized briefly for respiratory problems. His parents and three siblings survive him. Stephen had joined jetBlue in September 2003 after graduation from the College, fulfilling his dream of becoming a jetBlue maintenance technician.

2004

Joel Gonzalez of the Bronx, New York died in an automobile accident on March 19, 2005. His parents and brother survive him.

Faculty Spotlight

Dr. Raymond Addabbo, professor of arts and sciences and chair of the faculty senate, is collaborating on a new book on Numerical Analysis using the program Matlab to solve engineering problems in the area of statics.

Dr. Janet R. DeSimone, assistant vice president of academic affairs, presented a research paper entitled, "General Educators' Beliefs and Practices about Inclusion in Middle School Mathematics Classrooms," at the Council for Exceptional Children's (CEC) 2005 Annual Convention and Expo in Baltimore, Maryland. CEC is the largest international professional organization dedicated to improving educational outcomes for individuals with exceptionalities, students with disabilities, and/or the gifted.

For the last three years, the mechanical engineering technology department at Vaughn College has received an \$8,000 award from Northrop Grumman for general research in the CATIA Parametric Modeling of tube bend data. **Chair of the Mechanical Engineering Technology department George Kizner and Associate Professor Donald O'Keefe** are participating in the Industrial Associates Program with Northrop Grumman to help develop methodology to auto generate exact solids of aircraft tubing/duct. The ability to use the functionality of Parametric Modeling within CATIA allows the designer to aid the design process of the E2-C Electro Mechanical Lines Group for the design of the Advanced Hawkeye program.

Donald O'Keefe has just been selected for the summer 2005 faculty research project at NASA. His proposal, "*Process and Human Factors Engineering - Simulation and Modeling Technologies*," will be a 10-week research project.

Dr. George Kizner and Donald O'Keefe are also developing a digital connection between an Access Database of discrepancies and CATIA Version 5 digital mockup of an aircraft that is manufactured at Sikorsky.

This interface will be user friendly allowing discrepancy points to be placed within the 3D CATIA model with unique designation symbols. Users of this program will also link electronic photos of discrepancies to the data point portrayed in the 3D CATIA mockup.

This program will allow Sikorsky to quickly track the discrepancy database to the associated model for subsequent product quality improvement initiatives. This application program will further give the user the ability to dynamically set criteria to be graphed, for example, by aircraft, specific crab key word, crab type (electrical/mechanical), historical comparison over several tail members or time, location within the aircraft cabin, cockpit, tail, etc.

Dr. Kizner's enthusiasm for his department, as well as for the students of his program has been demonstrated throughout the years as he has kept pace with the latest advances in technology.



*Dr. Janet R. DeSimone
Assistant Vice President,
Academic Affairs*

My Fellow Alumni, and Students



Time is passing at a very quick pace, and it seems like yesterday we welcomed in the spring freshman class. They are beginning to experience a great part of the academic environment, the routine of college life. In so many ways, college is preparation for the real world.

I considered my college life a transition, a time to adjust from one place to another, a time to learn at a place geared toward my aspirations. The faculty is warm, with an abundance of knowledge, an excellent atmosphere for learning. Students should enjoy this time, and use it well. The more fruitful this academic time, the better the preparation for life, and their future.

As alumni, we are in a wonderful position to give back all the experiences we've encountered along the way. The mistakes that were made, and the learning; are all part of our growth. Trial and error are the cornerstones of intelligent progression. The key is to expose yourself to as much knowledge as possible. Knowledge is power—the power for you to succeed.

In the coming months there will be scheduled alumni association meetings and several events specifically designed to interact with our student body. Take the time to attend our meetings and festivities. We welcome you. Your input is important, and we are always available to meet with you.

Students, enjoy this special time of your life.

A handwritten signature in cursive that reads "Joe Castiglione".

Joe Castiglione, '67
Alumni Association President



New Faces

New faculty and administrators who were promoted or joined Vaughn College since the fall of 2004.

Will Byrd, director of student affairs, formerly associate director of student affairs

Ernie Shepelsky, assistant vice president of student enrollment services, formerly director of admissions

Broadening Students' Knowledge in a Cutting-edge Technology

A new, three-credit elective course has been introduced at Vaughn College. Alumnus **Joe Tepedino**, '74, teaches the course, AAM495, entitled "Unmanned Aerospace Vehicles," or UAVs, as they are popularly called.

This course outlines the increased knowledge of aerospace applications and encompasses new design technology, equipment and construction techniques. One result of these advances is the increasing use of the UAVs, and the power of its electric components for military and civilian work.

The course introduces students to applications of UAVs powering electric components derived from alternative sources of energy such as solar power, magnetism and hydrogen power. These sources of power have also been modified for potential use in industrial areas other than aerospace as well.



(Left to right) **Christopher Romero, Mohan Mohabir, Joe Tepedino, '74 (Instructor AAM495), Eric Wills and Brian Gonzales**, with the unmanned aerospace vehicles they constructed and tested during their course.

The course also demonstrates how UAVs are modified for meteorological, cartographic and atmospheric sampling, and for reconnaissance and surveillance. Students are also developing hands-on skills by constructing two UAV models: one of solar power, the other utilizing magnetism.



Camillia Cudjoe (right) and Tobias Rasheed (left), celebrate their election victory as new officers of the 2005-2006 Student Government Association (SGA). For the first time in the history of the institution, both the president and vice president of SGA are females—in a student population that is only 12 percent female. The new group includes **Camillia Cudjoe, president; Shauna Lang, vice president; Mark Bastawrous, secretary; Daniel Ford, treasurer; Ravi Gupta, academic affairs chair, and Tobias Rasheed, student activities chair.**



The staff of the student advisement center (SAC) invited Vaughn College students, faculty and staff to celebrate Cinco de Mayo, a fiesta that celebrates a small Mexican town's victory over Napoleon's army in 1862. Pictured (from left) are SAC staff members **Sharon McPartland, Lisa Rivera and Tanya Solivan, and Stephanie Fiallo of Human Resources.**

Vaughn College of Aeronautics and Technology

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