

BROOKLYN TECHNICAL HIGH SCHOOL
85TH ANNIVERSARY GALA

OCTOBER 22, 2008
THE NEW YORK HILTON

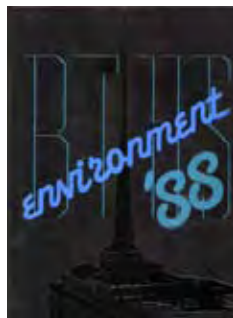
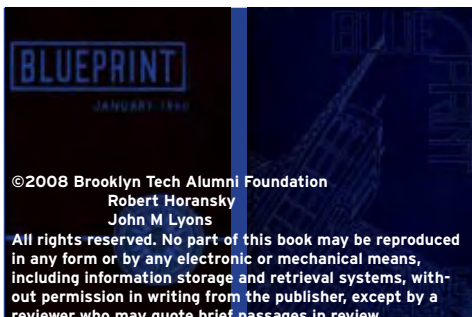
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The 85th Anniversary Gala for Brooklyn Tech: *A Celebration in Three Acts*

Featuring:

Jeanine (Aguirre) Ramirez '88, *Emcee*

Peter Yarrow

The Brooklyn Tech Chorus

Norman Keller '54, *Gala Chair*

Michael A. Weiss '57, *Chairman*

Achilles Perry '58, *President*

Mathew M. Mandery '61, *CEO*

BROOKLYN TECH ALUMNI FOUNDATION

Randy J. Asher, *Principal*

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Herbert L. Henkel '66, *Chairman*

President and CEO

INGERSOLL-RAND COMPANY

Floyd Warkol '65 and Josh Weston '46

*Co-Chairs, "Sustaining Excellence,
The 21/21 Campaign For Brooklyn Tech."*

The Faculty of Brooklyn Tech

A Message from the Gala Chairman

Dear Alumni and Friends of Brooklyn Technical High School:

Welcome to the Brooklyn Technical High School 85th Anniversary Gala.

Please take a moment tonight to look around you. You share a special bond with every person in this grand room. We have all benefited, directly or indirectly, from a great gift given to only a fortunate few: an education at Brooklyn Tech.

From the early 20th century vision of Tech founding father Albert Colston, who foresaw the need for a new kind of high school decades before the word “tech” entered the popular vernacular, to the present, Brooklyn Tech has provided a transformational education experience. To this day, I encounter Tech alumni who say unhesitatingly that their high school years were the most meaningful of their entire education. These people generally attended some fairly impressive colleges, I should note.

I think I understand why they say this. Yes, Tech has always embodied and imparted a passion for excellence. But there is more.

Many traditional high school programs define excellence as mastery of the *whats* and the *hows* of knowledge. Brooklyn Tech has always pressed students to explore the *whys* and, significantly, the *why nots*. It taught us to look at the world a little differently. In doing so, we began a lifetime of reacting and relating to that world differently.

That, I believe, is why so many Brooklyn Tech alumni have changed the world in so many ways.

Tonight’s honoree, Herb Henkel ’66, embodies



that spirit. He assumed leadership of a prominent company built upon a 19th century industrial model, and has refocused it on 21st century, technology-driven innovation. He has been exceptionally committed, along the way, to giving back to his community.

Albert Colston’s vision was enhanced over the years by William Pabst and a succession of leaders, through to Tech’s superb present-day principal Randy Asher. But on the front lines, day in and day out for 85 years, it is the faculty of Brooklyn Tech who have carried out that vision – one young mind at a time. The teachers of Tech shaped us into the adults we became. We salute them. We are here because they were there.

Our responsibility is to ensure that future generations of Technites receive the same educational experience we did, so they too can go on to change their world in ways we cannot yet imagine.

On behalf of the Brooklyn Tech Alumni Foundation, which for 25 years has supported Tech’s educational mission and has now launched *Sustaining Excellence: The 21/21 Campaign For Brooklyn Tech*, I thank you for your participation.

This evening is the result of hard work by many. I especially want to thank the Gala Committee and Vice Chairs for their unwavering enthusiasm and dedication.

Thank you for joining us. I hope you enjoy and savor every moment of this festive evening.

Norman Keller ’54
Gala Chair

The 21/21 Campaign

Floyd Warkol ’65 & Josh Weston ’46, Co-chairs



Reach with me...

Sustaining Excellence: the 21/21 Campaign for Brooklyn Tech is a bold and innovative five-year initiative, launched in 2008, to ensure that Tech continues to transform young lives by providing an unparalleled educational experience.

The campaign’s goal: raise \$21 million from the Brooklyn Tech community of alumni and partners by 2013; \$21 million to build for the 21st century.

The 21/21 Campaign is a partnership to enhance public high school education on a scale that is unprecedented. *The 21/21 Campaign* will focus on three goals:

Curriculum and Facilities Enhancement

Ongoing curriculum innovation, to be implemented effectively, needs matching, first-rate, modern laboratories and equipment. *The 21/21 Campaign* will enable:

- Modernization of 80 classrooms and 12 laboratories
- Creation of new labs, such as an Advanced Biology DNA/Genetics Research Center, a Computer Integrated Manufacturing and Prototyping Laboratory and an Advanced Aerospace Engineering Laboratory
- Cutting-edge equipment and technology to teach students in the new and renovated laboratories

Faculty Support and Development

Recruiting top-caliber teachers is essential, but

Brooklyn Tech must also enable them to continually improve skills and keep pace with advances in industry. The Campaign will enhance professional growth and Tech’s educational leadership position by supporting:

- Faculty grants for research and innovative teaching
- Professional workshops and conferences, advanced training and college courses
- Opportunities for industry- and research-based externships

Transformational Learning Experience

To best prepare for tomorrow’s world, students need exposure to the settings where it is being forged – the workplaces and higher education institutions of today. The Campaign will open a wide range of opportunities by once again embracing the apprenticeship model:

- Research and field-based internships to provide real-world learning experiences
- Advanced coursework at the college level
- Enhanced co-curricular activities including publications, competitions and academic teams
- In-school enhancements such as career days, college fairs, expert guest lectures and incoming student orientation

To ensure that Brooklyn Tech can excel continually, a portion of *The 21/21 Campaign’s* resources will be allocated to the permanent endowment created by the Alumni Foundation in 1998.

Brooklyn Tech Alumni Foundation

The Brooklyn Tech Alumni Foundation is the largest organization of its kind in the nation. Now marking its 25th anniversary, the Foundation has energized and marshaled alumni support as never before. It has become a national model for building a strategic partnership between a public high school and its graduates – one that can raise the bar for excellence and help sustain the truly transformational education experience that is Brooklyn Tech.

In recent years, the Alumni Foundation has mobilized the funding for such projects as:

- The Denise Sobel and Norman Keller Instructional Technology Teacher Center and Academy
- The Fred De Matteis '41 Architecture Studio
- 21st century science rooms
- The Charles B. Wang '62 Athletic Field
- The Con Edison Environmental Science/Engineering Lab
- The William L. Mack '57 Library
- A Digital Animation Lab



Gala Honoree Herbert L. Henkel '66

SOS Captain Then, Industry Captain Today

Herbert L. Henkel is the chairman, president and chief executive officer of Ingersoll-Rand Company, a \$17 billion global diversified business and a Fortune 500 company. He is also a director of C.R. Bard Inc., and the 3M Company.

Mr. Henkel's path to this pinnacle of corporate leadership began at Brooklyn Technical High School, where he majored in aeronautical and graduated in 1966. At Brooklyn Tech, he was a captain of the SOS, prefect class president, school representative to the Student GO City Council, writer for the *Survey* and member of the photography club.



al markets, and away from the heavy-machinery profile of its past. It operates worldwide and has more than 50,000 employees. The Ingersoll-Rand family of industrial and commercial brands includes: Club Car golf cars, Hussmann stationary refrigeration equipment, Ingersoll Rand industrial equipment, Schlage locks, Thermo King transport temperature-control equipment and Trane air conditioning systems and services. Biometric security, refrigeration, medium to large-scale air compressors, and compact vehicles for construction and transportation of people and goods are among Ingersoll-Rand Company products and solutions.

At Polytechnic University, Mr. Henkel earned a B.S. degree in aerospace engineering and applied mechanics and a M.S. in mechanical engineering. He also holds an M.B.A. from Pace University.

Mr. Henkel came to Ingersoll-Rand in 1999 from Textron, Inc., where he had been president and chief executive officer. Previously, he had served as president and group vice president of Textron's industrial products segment, and president of Greenlee Textron. He also held top level executive positions with Southern Fastening Systems, Unifast Industries, Inc., Chicago Pneumatic Tool Company and Hilti, Inc.

Under his leadership, Ingersoll-Rand has transformed into a multi-brand commercial products manufacturer, serving customers in diverse glob-

Born in Austria, Mr. Henkel moved to the United States with his family when he was nine years old. Today, he lives with his wife in Cornelius, North Carolina. They have two children and one grandson.

Mr. Henkel enjoys kayaking on Lake Norman near his home and making reproductions of antique furniture. Woodworking, a skill he acquired as a boy working with his father and honed while making "Step V blocks" at Brooklyn Tech, developed into a lifelong hobby. Regarding his passion for woodworking, he once said, "You have to be so focused on what you're doing, the rest of the world goes away."

Mr. Henkel is active in the United Way of Charlotte, North Carolina.



Peter Yarrow

From Music to Education

Peter Yarrow has charmed, inspired, delighted, and just plain entertained generations of audiences since Peter, Paul and Mary first sang their way into the national consciousness in the early 1960s.

As a member of that renowned musical trio for 49 years, he has earned five Grammys and an Emmy nomination, recorded eight gold and five platinum albums, and six Top 10 hits.

The late Coretta Scott King once proclaimed, “Peter, Paul and Mary are not only three of the greatest folk artists ever, but also three of the performing arts’ most outstanding champions of social justice and peace.”

Peter’s gift for songwriting has produced some of the most moving songs Peter, Paul & Mary recorded including, “Puff The Magic Dragon,” “Day is Done,” “Light One Candle,” and “The Great Mandala.” Last year, the illustrated children’s book of Puff, published by a company owned by an alumnus of Brooklyn Tech, was number one on the Publishers Weekly chart of illustrated books for 16 weeks.

During the last decade Peter, whose mother was a New York City teacher for close to 30 years at Julia Richman High School, has devoted himself primarily to the work of heading Operation Respect (OR), an educational non-profit he founded. OR is dedicated to assuring children and youth a caring, safe and respectful climate of learning where students’ academic, social and emotional development can take place in a welcoming, environment, conducive to learning.



OR disseminates for free a classroom-based program called, “Don’t Laugh At Me” (DLAM) that has been utilized in a variety of ways, frequently in conjunction with other similar programs, by an estimated 22,000 schools in the United States, Hong Kong, Croatia, Canada and elsewhere. DLAM is designed to help establish a school climate that encourages acceptance of differences and is free of bullying, ridicule and violence of all sorts, emotional and physical. OR has distributed more than 150,000 copies of DLAM and is available, at no cost, through www.operationrespect.org.

The United States House of Representatives honored Operation Respect with a unanimous vote of commendation after only five years of its existence.

Peter Yarrow has received two honorary doctorates from San Francisco State University and National Lewis University for his work in educational advocacy.

Jeanine Ramirez

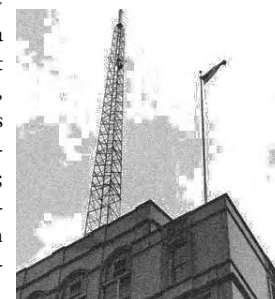
Gala Emcee

Native Brooklynite Jeanine (Aguirre) Ramirez ’88 majored in communications at Brooklyn Tech, and later at Fordham University.

She landed her first TV news job at WB/WPIX-TV Channel 11, where she was a field producer, writer and production assistant. She then packed her bags and moved to Texas, where she reported, anchored and hosted a weekly syndicated Latino music program for the NBC affiliate in Midland, KWES-TV.

She joined NY1 News in October 1996 and today is the New York City news channel’s Brooklyn reporter. She is primarily responsible for covering the borough’s 2.5 million people as well as its schools, politics, religions and neighborhoods. She also is the lead reporter on many stories involving Latino issues.

In addition to covering stories in Brooklyn and around the city, Ramirez has traveled to Havana, Cuba, for a special series on New York area businessmen finding a new market on the communist Caribbean island; to Vieques, Puerto Rico, to cover the protests and arrests of New York legislators at the Navy’s bombing range; and to various cities in the Dominican Republic to report on the devastation caused by Hurricane Georges.



In 2002, Ramirez had the honor of marching as one of the Grand Marshals in New York City’s National Puerto Rican Day Parade up Fifth Avenue. She’s received numerous commendations for her work, including awards from City Comptroller William Thompson, Brooklyn Borough President Marty Markowitz, El Diario/La Prensa, State Senator Martin Golden, the Latin Coalition for Fair Media, The Prospect Park Alliance Boricua Festival and former Brooklyn Borough President Howard Golden.

Ramirez is a proud member of the National Association of Hispanic Journalists.

From the Alumni Foundation...

Eighty five years ago, the vision of one man, Albert Colston, was realized with the opening of the doors to Brooklyn Technical High School. The power of his idea, coupled with sheer determination and will power, led to creation of an institution that would alter the lives of thousands of young men and women over decades. The story of the birth of Brooklyn Tech remains a compelling example of how one individual can indeed change the world.

Sixty years later, the world was a different place. Brooklyn Tech was still a center of educational excellence, but in the new realities of modern life, it was no longer a given that excellence could sustain itself automatically and effortlessly. And so, 25 years ago, the Brooklyn Tech Alumni Foundation was formed to mobilize a dedicated alumni base, and the school's many other supporters, to provide the support needed to truly sustain excellence.

Over the years the Alumni Foundation has made possible educational, curricular, faculty development and facilities enhancements that simply would not have been possible otherwise. You will see and hear about many of these achievements in these pages, throughout this evening, and in the ongoing work of the Foundation.

None of this could happen – can continue to happen – without the enthusiastic and energetic support of you, the proud alumni and dedicated partners of Brooklyn Tech. We thank you; we appreciate all you have done and will do. We especially thank the members of the Alumni Foundation Board of Directors and the Gala Committee who have worked so tirelessly and effectively to ensure the success of this Gala. We urge and implore you to stay the course and help propel Brooklyn Tech and its amazingly talented students and faculty to even greater heights tomorrow.

Michael A. Weiss '57
Chairman

Achilles Perry '58
President

Mathew M. Mandery '61
CEO

From the Principal...

I have the honor and privilege of serving as the principal of this magnificent institution.

Brooklyn Technical High School's mission is to inspire and challenge our students to maximize their talents for the benefit of society. We educate students in pre-engineering, the technologies, the sciences, and mathematics with a significant emphasis on the humanities. With an ethical foundation throughout the curricula, we will prepare our students to enroll in the most competitive colleges and universities. Relying heavily on an interdisciplinary curriculum, we will prepare our graduates to become academic, business and community leaders for the 21st Century.



Our school has evolved throughout the years. Iconic courses like Foundry and Industrial Processes have yielded to such new course sequences as Design and Drafting for Production, Digital Electronics, and Computer Integrated Manufacturing, consistent with industry expectations. Courses like Building Construction Technology and Organic Chemistry are as strong as or stronger than ever.

Future courses will continue to evolve as cutting-edge, engaging classes recognized by industry and higher academia as part of the solution to the national shortage of engineers, applied scientists, and leaders. We have completed phase one of a revision of the majors. On our school website's guidance section, you can view the new course sequences. The return of "Aerospace Engineering" and the "Gateway to Medicine" programs are great examples of public-private partnerships supporting ongoing initiatives. Our partnerships with the US Naval Academy, Florida Institute of Technology and NASA on the Aerospace Program; and CUNY, Mt. Sinai School of Medicine, and Sherman-Fairchild on the Gateway to Medicine Program, have given students enriched experiences that would otherwise not be possible.

One of our greatest resources is our Alumni Foundation and our large pool of active alumni. With them we reconnect our past with our present, with the common goal of driving the future. While financial donations are always welcome (and sorely needed), there are numerous ways to contribute. Hiring student interns, serving in an advisory capacity for our major programs, supporting individual projects, and mentoring research students are a few. To find out more, please speak with Dr. Matt Mandery '61, our Alumni Foundation CEO.

Thank you for joining us as we celebrate the first 85 years of excellence at Brooklyn Tech. I look forward to shaping the future with your support. Reach with me.

Randy J. Asher
Principal

From the Students...

Brooklyn Tech, one of the most prestigious high schools in the country, provides students with a range of quality opportunities that could not be found at any other high school. From a unique major system to internships with firms such as Con Edison, Tech has it all. Tech students are proud to be part of a community that offers diversity, caring faculty, academic challenges and a wide range of extracurricular activities. Many of these offerings would not have been available to us without the contributions of the Alumni Foundation.

Last year, the Alumni Foundation helped create the first Career Day for Tech students. This event allowed students to meet alumni who now thrive in various fields of interest, to learn more about specific careers and to better appreciate how the Brooklyn Tech experience will help prepare us for success. The Foundation also has sent students to conferences such as the National Consortium of Specialized Secondary Schools for Mathematics, Science and Technology and the L.E.A.D Conference; provides Tech students with a student planner, one of the most important tools needed to stay organized; and supplements extracurricular activities – for example, it funded the construction of the Charles B. Wang Athletic field for football and soccer.

The students of Brooklyn Technical High School are proud of the successes and contributions made by Tech alumni members. Tech graduates have created successful business ventures, contributed to advances in science, technology and the arts, and have won Olympic medals and even Nobel Prize Awards. At Homecoming, we get to meet these remarkable role models, to compare past Tech experiences with the present and to get insights into what it takes to succeed in the “real world.”

Tech students are proud of the legacy left by those who preceded us at Brooklyn Tech. We recognize that our four years at Tech have taught us how to learn, how to work hard, how to work well with others and to embrace life’s challenges. We have become part of a Tech community filled with laughter, tears and smiles, with successes and failures and with loving relationships and fond memories. We share this unique Tech experience with those who came before us and look forward to joining their ranks as proud and successful graduates of Brooklyn Tech.

Shelly Bendit '09 & Judy Diep '09
Senior Class President & Vice President

From the Faculty...

Here’s my father’s favorite joke.

A man scrimps and saves all of his life to travel to Tibet to ask one question of the Tibetan monk who is reputed to be the wisest man in the world. After years of sacrifice, the man finally has enough money to make this once-in-a-lifetime trip. Arriving in Tibet, the man scales one of its highest mountains, to seek out the wise monk. Days later, the pilgrim, exhausted almost to the point of the limits of his endurance, comes upon the monk’s simple hut. He goes inside. Without prelude, he asks his question, “Tell me, your holiness, what is the secret to life?” The monk answers, “Life is just a bowl of cherries.” The man is taken aback. Speechless for only a moment, he launches into a tirade, “I’ve worked my fingers to the bone all of my life; I’ve gone without; I’ve hoped and dreamed of this moment when I would get the answer to the question that has haunted me all of my life ... and now you tell me that life is just a bowl of cherries!!? Are you kidding?!” The monk pauses for a minute, and answers, “You mean life ISN’T a bowl of cherries?”

It’s a lousy joke, really, but it tickled my father. I guess the point of the joke is that no one knows what they’re talking about when it comes to the big questions in life. But at the risk of sounding megalomaniacal, I think I *do* know the secret to life. My relationship with literature, first as a student, and then as a teacher, has suggested the answer to me.

The secret to life is service. The purpose of life is to help others.

I see the resolve of the Brooklyn Technical High School Alumni Foundation to raise \$21 million for Brooklyn Tech over the next few years, as a wonderful act of service.

It is a service for our students, now and in the future. In America, in the 21st century, to be viable as a school of excellence that is dedicated to science and technology, we must go digital. And that takes money.

Yours is also an act of service for the faculty. Few things are more important than the work we do in our lives. Work is how we define ourselves. Work is how we discover who we are. The largesse of those who contribute to this fundraising effort will see to it that the faculty at Brooklyn Tech has the tools that they need to do their best work. Your largesse will allow us to be newly proud of Brooklyn Tech, which means that we will walk home at the end of the day with a renewed sense of pride in ourselves.

The gift for an 85th anniversary is diamonds or sapphires. Your gift – the gift of relevancy (in regard to the very nature of our students’ education), the gift of self-esteem (as far as our faculty is concerned) – is a gift beyond diamonds and sapphires.

“Thank you,” seems such an anemic thing to say in light of your generosity. But until some phrase comes to mind that matches the enormity of the moment, I’ll leave you with that ... thank you, thank you, thank you.

Dan Baldwin, *United Federation of Teachers chapter leader*
Brooklyn Technical High School

From the Parents...

The Brooklyn Tech Parent Association is pleased to offer its enthusiastic support for the Foundation's 85th Anniversary Gala celebration. As parents of current Tech students, we are extremely impressed with the Foundation's effectiveness in reaching out to alumni and obtaining their contributions for our school.

Our faculty and children are greatly benefiting from the results of your funding of programs and facilities that significantly enhance the learning experience at Tech like the Fred DeMatteis Architecture Studio, the Con Edison Environmental Science and Engineering Lab, and the Norm Keller/Denise Sobel Instructional Technology Teacher Center.

We are pleased to have been able to partner with you on such projects as faculty grants, financial aid workshops, and presentations by the Colleges that Change Lives, to mention a few, and look forward to continuing to strengthen our productive relationship for the benefit of our school.

We as parents are in awe of the Foundation's 21/21 Campaign – "Sustaining Excellence" – which we understand is one of the largest high school fundraising campaigns ever. We cannot help but be excited for our children and for the future of Brooklyn Tech.

One of the many things that makes Tech different from other schools is the generosity of Tech's alumni. What the Alumni Foundation has accomplished in its first 25 years is truly remarkable. On behalf of both current and future parents, we express our great appreciation for their past generosity and for their support of the Foundation's 85th Anniversary Gala.

Jeffrey Ewing and Jean Joachim, *co-Presidents,*
Brooklyn Technical High School Parent Association

The Brooklyn Technical High
School Parent
Association
proudly salutes

Brooklyn Tech
on the occasion of its 85th
anniversary

and congratulates
honoree Herbert L. Henkel.

*Thank you, Alumni Foundation,
for hosting this great event and for
your efforts on behalf of Tech.*

*Working together, we can
continue to achieve great things.*

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As of date of publication.

Brooklyn Tech — A History

JOHN M LYONS '66

From humble beginnings and an “I will not take NO for an answer” resolve from Albert Colston, Brooklyn Technical High School was born. Colston, an education visionary, saw the need for more technically educated young men after World War I. While serving as the chairman of the Mathematics Department at Manual Training High School, he made a presentation to the Brooklyn Engineer’s Club that outlined a design for a technical curriculum for Brooklyn boys.

His dream of a school concentrating on math, science and engineering in 1918 is not unlike the dream of Principal Randy Asher today. In 1919, his technical curriculum design was adapted for use at Manual Training High School and a short three years later, in the spring of 1922, the NYC Board of Education approved the establishment of Brooklyn Technical High School. BTHS opened in the fall of 1922 in a converted warehouse at 49 Flatbush Avenue Extension. Mr. Colston

was named Tech’s first principal, and he took forty teachers from Manual Training High School with him to form the core of teachers who would establish what would become one of the foremost centers for education for the next eighty-five years and counting.

The school opened with over 2,400 students and expanded over the years to a peak population of over 6,000. The overwhelming demand for admittance to Tech caused the rapid expansion to three annexes at PS 5, PS 69 and PS 74. In 1927, the Board of Education, recognizing the obvious suc-

cess of Colston’s vision, approved a plan to construct a new building to house Brooklyn Technical High School (administratively known as High School 430). Groundbreaking occurred on September 17, 1930 after the purchase of land at Fort Greene Place and DeKalb Avenue.

Mayor Jimmy Walker officiated at the ceremony and construction began in earnest. The building, at a cost of \$6,000,000, was



opened for partial occupancy in the fall of 1933 for about 800 students. The annexes continued to be occupied for several years as the building was completed. The first course to move to the new building was the electrical course. The first majors at Tech were architecture and building construction, chemical, electrical, mechanical and structural engineering, and technical college preparation. Today bio-medical sciences, biochemistry, computer science, industrial design, international arts and sciences, environmental science, law and society, media communications and social science research join them as Tech responds to 21st Century global needs. The Brooklyn Tech auditorium became the second largest (now third with the construction of the Metropolitan Opera House at Lincoln Center) in New York City behind Radio City Music Hall. The first floor gymnasium contained a mezzanine track high above the main gym floor. Tech had a foundry that operated into the 1980’s,

a well-stocked library and machine shops that rivaled many factories.

The earliest extra-curricular activities at Tech included the school newspaper, *The Survey* and school magazines such as, *The Science Bulletin*. In 1933, the *Survey Senior Issue* was replaced by the *Blueprint* yearbook in time for the spring graduation. The Service Squad, the SOS, formed in 1922, continued to serve the students of Tech until the late 1980’s. The Student Government Organization (SGO), the now defunct Longfellows (for students over six feet tall) and Arista (for our most successful students) are some of the oldest organizations at Tech.

Sports played an integral part of Dr. Colston’s vision. Early teams included baseball, basketball, bowling, football, track and field, ice hockey and swimming. (Tech has its own indoor swimming pool that is still in service today.) Ice hockey, riflery, fenc-

ing and soccer soon followed. This year we celebrate two alumni who won silver medals at the Olympics in Beijing.

In the 1930's, Maxwell Starr was commissioned to design the mural themed *'The History of Mankind'* in the main lobby as a Works Project Administration (WPA) project. The Alumni Association commissioned its restoration in 1998.

During the early years, a radio club, under the call sign 2CXN, operated an amateur radio station and assisted in the training of many radio operators who went on to careers in commercial broad-

casting. This amateur AM radio station was the forerunner of WNYE (originally WCNY) that operated from the eighth floor studio at Tech beginning in 1939. WNYE-FM started operating in 1941 and continues to this day. (See separate story on WNYE-FM and TV)

During World War II, Dr. Colston and his staff saw how the skills learned at Tech could contribute to the war effort. Tech became an *Emergency Defense Training Center* and the *Brooklyn Tech Evening High School* was born to train workers in vital, war related technical skills. The war years saw the retirement of Dr. Colston and, after a

short period with a couple of acting principals, William Pabst was named principal in 1946; Pabst held this position until 1964. The aeronautical course was added during this time as was the literary publication *Ho-*

rizons. These years firmly established Tech as a premier school in New York City.

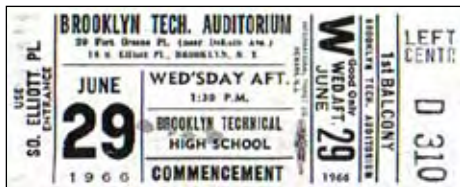
The late 1960's saw the Vietnam conflict, a transit strike, Woodstock, and two teacher strikes. Nineteen-seventy brought the first female students to Tech and a major change to the way Tech went about its business. Sharing the gym, the swimming pool and the bathrooms were just some of the issues

that faced the Tech of the 70's. Curriculum revisions adapted to the needs of these changing times, and this challenge to remain relevant in a rapidly changing world continues to this day.

The twenty-first century finds Brooklyn Technical High School once again atop the list of specialized high schools in the country for math, the sciences, engineering and technology. Now and in the future, Tech students will need to meet rigorous requirements not only in academics but in community service and extra-curricular activities to qualify for a prestigious Brooklyn Technical High School diploma. The Tech of the 21st century is different from its 20th century counterpart, but it is still very much the same. It strives for excellence

and looks to its future graduates to join the list of alumni who have brought honor and prestige to their alma mater. This list includes Nobel laure-

ates, an astronaut, leaders of industry, actors, authors, entertainers, congressmen, athletes, inventors, lawyers, surgeons and philanthropists. We proudly salute Brooklyn Technical High School.



Thank you, Brooklyn Tech
For 85 years of excellence in education

Thank you, Alumni Foundation
For 25 years of supporting Brooklyn Tech

Congratulations to
Herbert Henkel '66

Victor Insetta '57

Brooklyn Tech: the War Years

STUART KESSLER '47

Boarding the Culver Lines on a bitter cold February morning in 1943, I was both nervous and excited to be on my way to my first day as a freshman at Brooklyn Tech. Ralph Breiling had just become the acting principal succeeding the legendary Albert Colston who is considered the organizer and the first Tech Principal from 1922 to 1942. As I rode the only student elevator and exited on the 6th floor to approach my first prefect class 6W23, I was awed by the vastness of the building.



My prefect teacher, a congenial Mr. Spiegel, explained to us that the first thing we would be doing is listening to announcements from the Acting Principal explaining the air raid regulations. A long interrupted buzzing signal meant that the pupil should take his books and return to his prefect room. Three gongs or the sound of repeating bells meant that we were to vacate the building. This was the middle of World War II and these precautions had to be taken along with the sale of bonds, blackout restrictions, gasoline, and food rationing and other war time regulations.

My first subject was Shop. For me this was a debacle in the making. I didn't know the front end of the chisel from the back end. I

thought a plane stood for an airplane, not an instrument to shave wood. A vise, I interpreted as a bad habit not a piece of a desk that would hold a wooden block in place.

Our first project was step V block. If only I had my father with me it would have been a breeze since he did all of the mechanical stuff around the house and these abilities skipped a generation with me. I really didn't know how lucky I was in wood shop because the Foundry

was terribly difficult for me in my sophomore year, and the Forge shop was an unmitigated disaster during my next term. I spent more money in the store down the street, Lourans, purchasing tool bits and other items that had been ruined in shop classes than I spent on my lunches.

Lunch - that was an interesting affair. As soon as the bell rang for the 4th, 5th or 6th period (the 3 periods set out to feed the 6,000 plus students), we charged up to the cafeteria, fung our books close to a seat to reserve it, and galloped over to the chow line to pick up either a hot meal or milk and cookies. My mother insisted on making sandwiches for me each day to make sure I had a healthy lunch. If I was lucky, I got past shop without someone "borrowing" my lunch. If I was not that



fortunate, I would have to prevail upon one of my friends who preserved their lunch in a better manner than I did.

The Tech newspaper, the *Survey*, told of the events of the past six months "that may go down in the annals of Brooklyn Tech as perhaps one of the brightest." The football team defeated its arch rival Manual Training for the first time in 16 years and our swimmers clinched the division championship. The newspaper bore witness to the first General Organization social events and the GO sponsored a war bond drive which netted over \$12,000.

The war also brought about many changes in Tech's curriculum. The Ranger program was instituted in the gymnasium, pre fight courses were now offered to upper termers, and the 7th and 8th term pupils were required to take a period a week of first aid.

During the ensuing four year period, I enjoyed the camaraderie of new found friends and made fun of many of the teachers especially poor Mr. Marx, our German instructor. We also enjoyed continued strength in our athletic teams. My high points came from being part of the first soccer team that Brooklyn Tech fielded in 1946. During our 2nd season, we fought Lafayette High School for the Brooklyn championship and lost out in overtime in our second



game (the first having ended in a 0-0 tie). Our Lafayette friends told us that was to avenge the 53-0 defeat in which Brooklyn Tech humbled Lafayette's football team, then and perhaps still a PSAL record. Going Saturday afternoons to Ebbets field, to watch the Brooklyn Tech team play and usually win, was a big thrill.

My final remembrance of my days at Tech was of graduation night when a huge snow storm forced my parents to abandon their car in Prospect Park and hail a cab to get to the auditorium in time for the start of the processional. Being the shortest one in the class, I was the first one out and as luck would have it, they barely made it. Three days later I went to Traffic Court to explain to the Judge how my father did not really leave his car in Prospect Park and could they please reduce the \$15 fine. They did. I am sure it was my Brooklyn-Tech training that helped me prevail.

WNYE

A History and Me

JOHN M LYONS '66



Brooklyn Technical High School and Broadcasting, a partnership for 85 years and counting! When Tech opened in 1922 at the old building, 49 Flatbush Avenue Extension, the students with the help of Mr. Arland formed the Radio Club and went on the air as licensed amateur radio station 2CXN. The purpose of the Radio Club was to promote amateur radio at Tech. While membership was limited to licensed amateurs at the start, that quickly changed as interest grew and membership was opened to all those interested in becoming licensed radio operators. The club affiliated with the American Radio Relay League, the national association for amateur radio, from the beginning. Code practice for the newcomers was conducted in the custodian-engineer's office at Tech, and the school custodian, Mr. Gavin, was made an honorary member of the Radio Club for his contributions. In the first 'Senior Issue' of the *Survey*, January 1923, some of the sponsors included Sylo Radio Supplies and the Twentieth Century Radio Corporation. Radio was alive and well at Brooklyn Tech.

As time went on, the amateur station was just one of the radio operations at Tech. By 1931, a licensed AM radio station was on the air using a long wire antenna on the roof, (commercial radio start-



ed in late 1920); WNYC, the city's station, moved its studios to Tech in May of 1936. In 1941 WCNY, the assigned call for the newly licensed FM station at Tech, went on the air as one of the early FM radio stations in the country (FM was developed in the 1930's). The call letters were changed to WNYE and exist as such to this day.

I started working in broadcasting in the fall of 1964 at WNYE-FM at Brooklyn Technical High School in my junior year and have had a connection to WNYE ever since. During the Easter break in 1966, the WNYE-FM tower atop BTHS was to be razed and a new tower able to accommodate the new WNYE-TV as well as WNYE-FM was to be erected. Realizing that the work could not be completed during this short period of time and the school could not be closed to allow for additional time, the project was moved to the summer and WNYE-TV finally signed on the air on April 3, 1967. Alice Kaufman (nee Brady), Tech teacher then and now, tells me that she remembers seeing steel going up the side of the building as the tower was constructed. In

the late 1980's, the facility was getting old and the NYC Board of Education decided to move the station to the Empire State Building while retaining the facility at Tech for a backup. I was working at DSI Communications

(now DSI RF Systems) at the time and was responsible for designing the new transmitter facility atop Empire. The structural engineer on the project was Seymour (Sy) Donner, P. E. class of January, 1950. We successfully completed the project in 1991 and WNYE-TV transitioned their transmitting operations to Empire. In 1994, the FCC licenses for the stations were transferred from the Department of Education to the New York City Department of Information Technology and Telecommunications (DOITT); the Director of Citywide Radio Network Operations at DOITT is Felix Melendez, class of 1979. The agency still operates the stations today. Fast forwarding to 2007, WNYE-TV started work on their conversion from analog to digital television in advance of the February 17, 2009 congressionally mandated deadline. Shortly after 9/11, I joined *The Durst Organization* (TDO) and presently serve as an Assistant Vice President and Director of Broadcast Communications; WNYE-TV is going to build their digital facility at 4 Times Square, where I am also the TDO site manager. The station again hired DSI RF Systems to design the build out, and

the structural engineer on the project was once again Sy Donner. As we go to press with the Gala Journal, WNYE-HDTV is on the air and WNYE-FM is building a site at 4 Times Square as its primary transmitting location for its analog and HD Radio broadcasts. WNYE-FM and WNYE-TV today offer a wide variety of educational programs that are aired not only in New York, but also on Public Broadcasting Service stations throughout America.

I recently paid a nostalgic visit to the old studio and transmitter facility on the 8th and 9th floors of Tech, and it still looks the same as it did when live broadcasting emanated from there on a daily basis. The large studio room is now a rehearsal hall for the band, while the old control room just sits there gathering dust. The scent of the room reminded me of the days when we were spinning vinyl records and making reel-to-reel recordings. It was like I was sent back in time to the 60's.

I am fortunate that I have remained in the field of my choosing at Tech to this day and to have maintained my long association with WNYE.



Women Teaching Men (and Women)

SUE MAYHAM '76 INTERVIEWS ELIZABETH SCIABARRA

In 1972, on my first day at Tech, my Dad followed our family tradition and escorted me to school. First day of school was a Daddy/daughter day; my Mom got left out of the ceremonies. As his only daughter, I guess he was concerned letting his barely 14 year old get off the train on DeKalb Avenue. I am not sure he was all that aware that I was going to be one of about 500 girls amongst 5,500 boys. I know he was shocked at the parade of blue jeans clad teenagers marching down the street to school, but no doubt very unaware of the gender of the walking masses. The early seventies were a groundbreaking time in the U.S. The sixties brought turmoil, but nothing to compare to the turmoil that Brooklyn Technical High School would go through in the very early days of co-ed classrooms. The ladies of Tech were all teachers loved by their students, certainly some more so than others, but there were now an influx of young girls that were going to turn the school on its head.

Basic needs had to be addressed first – bathroom facilities and gymnasium (and locker room) time. I remember having more classes on the 5th and 6th floor – did it have anything to do with the fact that our bathroom was on the 6th floor in the southeast corner? Two girls were sent out of class together – not for safety so much as for the necessary swinging stall doors. All our double periods (for shop and gym) were 5th & 6th – our

gym was ONLY the 8th floor. Eventually, as more girls were in attendance, 3rd and 4th period were added, but again, I am sure it was for gym scheduling more than anything else. The pool was off limits unless you were on the swim team if I remember correctly. Girls in patternmaking? Oh yeah, and foundry and metallurgy too. We didn't get cooking or home economics or typing or sewing. I use my hammer to this day, but still can't iron worth a damn. I can tell you that it didn't take long for the women of Tech to make a real difference. In the class of '76, only the third graduating class, the SGO President and Vice President were female, as was the Valedictorian. Not bad for our side. I need to quote my yearbook that mentions the women's movement and how far we have come (in 1976!) In the closing of the discussion, it states "No one knows when or if a woman will ever become president, but it would be an honor to all of us if she were a Tech '76 graduate." Come on ladies of '76, we still have a chance!

But I digress. I want to write about the early ladies of Tech, those women who were teaching teenage boys unaffected by the influence of young ladies and all of a sudden wham – the world of Tech is in turmoil.

I couldn't name all of the lady teachers, but certain ones stand out in my memory and in the memories of other grads that I



have spoken to. Ms. Heinlein, Mrs. Osterweil (whose daughter was class of '75) or Mrs. Kaufman? Mrs. Fiore or Ms. Ross. Sherry Shapiro? Ms. Allocca or Ms. Reilly.

If I were asked to pick the most influential female teacher in my Tech career it would unquestionably be Elizabeth Sciabarra. I never had the pleasure of having her as an instructor except when I cut lunch to listen to her teach Chaucer in Middle English. She did, however, inspire my leadership tendencies and encouraged me to start the Twirlers and to join the Cheerleaders and Boosters girls who were already attending football and basketball games.

It is her reflection upon how Tech changed from all boys through her tenure up until the 90's that inspires this article. How did life change with the influx of female Technites? Did the female teachers need to adjust their teaching patterns to now include the opposite sex? How did the male students react to only a few girls in school versus later on and to the present day of at least a 50-50 ratio? Is it much different now? Did female students present issues causing changes in the curriculum? I asked.

SM: Was there a positive reaction by the teaching staff about women entering the school?

ES: For those of us who started our teaching careers in the early 70's, the adjustment was no adjustment at all. We were in Tech only a short time before it became coed.

However, for those who had spent significant time in the school by the time the girls gained entry, I am sure it was an adjustment. However, I do not feel that there was anyone hostile or obstructionist – I just think change is hard and for different people the adjustment takes time.

SM: Do you remember any real problem once a significant number of female students had begun to attend?

ES: One of the issues we had was the building code issue. Bathrooms, locker rooms all had to be up to code which necessitated some renovation. We had to make sure that girls were not in any way discriminated against or made to feel uncomfortable by the physical plant. We had to make certain that there was equity and access for all female students to all courses. Girls' teams with the advent of Title IX had to be started.

SM: Did the female teachers need to adjust their teaching patterns to now include the opposite sex?

ES: I believe good teaching is good teaching. With the introduction of young women into the Tech culture, many classes I am sure saw a wider range of perspectives and points of view. Male and female student interactions in classes were interesting. There was an early dynamic in classes where boys significantly outnumbered the girls. How the students behaved in these situations was tied more to the maturity level of the students in the classes rather than the notion that the class was coed. I remember



ELIZABETH SCIABARRA

there being some concerns from some of our colleagues about how the young women would be able to perform in some of the “shop” classes, particularly those where there was heavy equipment. Some years later, one of the moments I remember was when one of the shop teachers came to me to tell me that the “Foreman” for the school year, was a girl. This was huge! Student life at the school changed with the advent of girls. There were clubs, teams and other extra-curricular activities (cheerleading, dances, musicals, dramatic productions) which evolved with a coed student body. When Tech had its first critical mass of young women, the girls, just like the boys ran for student office and moved into the mainstream of the school. In some cases, the climb was uphill for the girls, depending upon the activity.

SM: How did the male students react to only a few girls in school?

ES: When there were very few girls in the school, I think some believed that the girls were not serious and only wanted to go to the school because it was all male.

SM: Was there a positive reaction by the students about women entering the school?

ES: To some degree, there were some young men who didn’t like the idea of girls coming into the school; the culture was very much set and the feeling was that the girls would somehow ruin the school. Then there were those who were happy girls were coming to the school; I’m not sure if this was rooted in any overarching academic issues, but some felt it would provide them with better social lives. Several times in class however, there were discussions about Tech standards somehow “going down” if girls came to the school. I do feel that because Tech was a single gender school for so long, the notion of competition between the males and females was very much prevalent

in the thinking of young men. I think some were made uncomfortable by the possibility of competition. I also think that among the girls who entered the school during those first years, there was a drive to be the best they could be and to leave their stake in the ground. Girls had a tough time in classes that were so male dominated. Girls, not only had the task of fitting in to a male dominated school, but taking math, science and engineering classes where historically, girls had never been encouraged and grossly under-represented (not just in Tech, but all over) in the pipeline. So to a degree, the burden was on the young women to “prove” themselves.

SM: Is it very different now?

ES: Tech is coed. It continues to be a high expectation, competitive environment where ALL students are getting a terrific education. Female students are woven in to the fabric of the school. Over the last 37 years, women have graduated with honors, gone on to all the prestigious colleges and universities and continue to contribute to this world we live in. It is however, my hope that the alumni foundation can attract more of the women who were among those in the early entering classes. Though these women come back for homecoming, it is my hope that they will begin to join the ranks of the Hall of Famers and become more active in working with the school. I would personally love to be part of that mission.

Reviewing Ms Ski’s responses to my questions, I marvel that at such an early age, I obviously recognized her incredible impact. I hope that I have made her proud – she has certainly proven to me that she and Tech molded me and men.

Editor’s note: The first honorary class president of the very first Brooklyn Tech graduating class January 1923 was a woman teacher! Her name Helen Cooley!

IDEAS AND KNOWLEDGE
CAN SAVE THE WORLD

EDUCATION PASSES
IDEAS AND KNOWLEDGE
FROM ONE GENERATION
TO THE NEXT

BROOKLYN TECH IS
A BEACON OF EDUCATION

THE BROOKLYN TECH
ALUMNI FOUNDATION
STOKES THE FIRES
OF THAT BEACON

SUPPORT THE BROOKLYN TECH
ALUMNI FOUNDATION

THE HAITKIN FAMILY SUPPORTS
THE BROOKLYN TECH ALUMNI FOUNDATION.

JEFF
PENNY
MEREDITH
JASON
PAUL

A Brief History of the SOS

KEN D'ALESSANDRO '66 AND DENNIS FAGAN '66

Changes that occur over time in high schools like Brooklyn Tech mirror the changes in the larger culture. Just as socioeconomic developments have resulted in curriculum revisions and demographic shifts at Tech, attitudes towards rules and authority figures in the larger society have created a changing environment at Tech as well. Today's Tech students would probably be surprised to learn that for most of our school's history, students were responsible for "policing" themselves and maintaining order in the school's hallways, lunchroom and elevators as well as outside the building itself. The students responsible for this function were part of the Brooklyn Tech Service Squad, also known as the SOS ("Safety, Order, Service").



William Pabst, a former principal of Tech, noted proudly that the SOS provided an excellent first impression of Tech for visitors to the school. Former students would remember the SOS either fondly or not so fondly depending on their experiences at Tech. One of its Captains, Herb Henkel,

a classmate of mine, is the honoree at this October's Gala. Herb's role in this organization warrants a closer look at its history at Tech.

Unfortunately, a comprehensive collection of written records of and about the SOS does not exist, and personal narratives of the early years are no longer possible as the early members have long since passed away. What does survive is the set of Tech yearbooks (called the "Survey" until 1933 when its name was changed to the "Blueprint,") and this source offer glimpses of this historic organization. This article is written from information found in those Tech yearbooks as well as from a few vivid memories of the SOS that I recall from my years (1962-1966) at Tech.

The SOS is first mentioned in the 1923 Brooklyn Tech yearbook. In that year, ten graduating seniors listed the SOS among their activities at Tech. A page in the "Survey" that year, dedicated to the SOS, reveals that, "The Service Squad, in harmony with the rest of the school, has taken enormous

strides in increased efficiency this last term. This organization, so necessary to the development of our alma mater, has shown improvement in all branches, but particularly in the system of handling the misdemeanor of lateness."

The first indication of the size of the SOS appears in the 1924 yearbook. Seventeen graduating seniors listed the SOS among their activities during their years at Tech, and the Survey revealed that, "The Squad at present comprises about 130 members." The top officers of the SOS were Captain Roy Jones, Vice-President Henry Das, and Secretary Jerome Schwartz.

The SOS continually grew in size during the 1920's from 22 participating seniors in 1925 to 36 in 1926 and 1927. As stated in the 1926 Survey, "The main purpose of this organization is to help insure the comfort and safety of the students during school hours by regulating traffic in corridors and on stairways." By 1927, the total enrollment of SOS members exceeded 200 school wide, "... including the captain, the secretary, ten lieutenants and twelve junior lieutenants, with Mr. McHugh as the faculty advisor." By 1929, the number of SOS members appears to have increased again.



According to the "Survey", "Mr. McHugh's order restorers are over three hundred in number and consist of fifteen squads, each under a lieutenant and junior lieutenant. In addition to the main building squads, the organization patrols throughout the annexes." (At that time Tech was at its former location and, as its student body continued to grow, several annexes were added to accommodate the increasing number of students.)

The size of the Tech student body grew rapidly as indicated by the number of graduates. Yearbook issues celebrate 207 graduates in 1932, 247 graduates in 1933 (the year that the yearbook was renamed the "Blueprint"), 328 graduates in 1934 (when the move was made to the present building), and 608 graduates for the class of 1940.

Nothing more is said about the SOS in the Blueprint until 1944 when it proclaimed that: "Approximately one Technite out of every ten is a member of one of Tech's most essential organizations – THE SERVICE

SQUAD.” A photo in the 1944 Blueprint includes twenty-three SOS members, all presumably officers since by then the organization had more than 300 members.

In 1948, the first mention is made in the Blueprint that “over 6,000 students” attended Tech. That same year, the Blueprint includes the first mention of the SOS rank of inspector.

The 1952 Blueprint refers to “eight hundred squadmen” and contains the first reference to a captain and two inspectors, as well as the first mention of both silver and gold lieutenant badges.

The SOS has had numerous faculty advisors over the years. The 1953 issue of the Blueprint states that the SOS was founded by Mr. Charles Ledley. He was apparently replaced by Mr. McHugh, followed by Mr. Starr. The first mention of Mr. Robert Durso, under whom I served, is made in the 1958 yearbook, when his name appears as co-advisor with Mr. Starr. The 1958 Blueprint also mentions for the first time that the SOS has 800 members. This membership size carries through the entire decade of the 1960’s and represents what appears to be the height of the SOS organization.

By 1962, both Mr. Durso and Mr. Shuttleworth became the SOS faculty advisors. The Blueprint for that year again indicates that the SOS has 800 members, including 26 first lieutenants and 64 second lieutenants. In 1964, Paul Kaufman joined Mr. Durso as a faculty advisor. Those who attended Tech at the time may remember the

model gallows that sat on the desk from which Mr. Kaufman assigned detention to students reported by SOS officers; reports were typically initiated by the phrase, “Take out your transportation card.” In 1969, Mr. Louis Dee and Mr. Irving Rubin became the faculty advisors to the SOS, which the 1969 Blueprint characterized as “one of the oldest and largest organizations in the school.”

Beginning in the late 1960’s and throughout the 1970’s, the significant social changes that were taking place in the United States were also reflected at Tech. It is during this period that the size of the SOS began to dramatically shrink in response to the changing social conditions within

Tech. In 1971, the Blueprint reports that the SOS had 13 first lieutenants and 10 second lieutenants, significantly down from the 26 first lieutenants and over 80 second lieutenants supervising approximately 700 SOS squad members serving in 1966.

By 1972, a group photo of the SOS in the Blueprint shows 40 SOS members; in 1973 that number has been reduced to 21. The photo in the 1974 Blueprint includes faculty advisor Philip Santamasini and 16 members of the SOS. The caption indicates that there is one captain and three inspectors, suggesting an end to the practice of appointing a new slate of senior officers for each of the fall and spring terms. The 1975 Blueprint photo shows a similarly reduced SOS membership, but among the 20 SOS members in

the photo, two or three females are seen wearing lieutenant’s badges. In 1976, the Blueprint photo shows 14 SOS members.

In 1977, for the first time, the Blueprint includes a photo of six “security guards” on staff at Tech. That year’s SOS photo includes 37 SOS members along with faculty advisors Mr. Richter and Mr. Kreuter. In 1978, the Blueprint SOS photo identifies a captain, two inspectors, 15 first lieutenants and four second lieutenants. In 1979, the SOS photo includes 19 members. Similarly, the 1980 Blueprint photo shows 18 SOS members, including five female members. In 1981, the 21 SOS members include nine females. Other than the fact that they were at least second lieutenants, their ranks are not discernable from the Blueprint. By 1983, the size of the SOS had dwindled to fewer than 60 total members.

The 1986 Blueprint issue includes a revealing page about the deteriorating role of SOS. The text states: “To the members of the Tech Service Squad: Over the years at Tech a sense of hostility has been developing between the student body and the Service Squad members.” This text

is followed by a list of “Do’s and Don’ts” for SOS members aimed at reducing tensions between them and the student body.

In 1987, the Blueprint reports the first all-female slate of captain and inspectors. Continuing with

the ominous theme of the prior year’s Blueprint, the 1987 yearbook reports that the new officers have radically altered the SOS: “Strict policy has diminished: dress code, once a man-

datory requirement, has been abolished by the officers, all helping to result in a more friendly attitude between members and students.” It was hoped that these changes would reduce tensions between the SOS and the student body, but the 1987 issue of the Blueprint contains the last men-

tion of the SOS. Tech had changed just as the city and the country had changed, and the SOS faded into history. However the rich tradition of service established by the SOS continues at Tech through its many service organizations and a service requirement for graduation.



BADGES COURTESY OF: INSPECTOR'S, 1st LT. 'D' BADGE AND 2ND LT. BADGE '23' - KEN D'ALESSANDRO
CORPORAL '38' AND SQUADMAN '72' BADGES - JOHN LYONS
SECRETARY BADGE - PAUL WEINBERGER

Albert Colston

Steers Us Through

(REPRINTED FROM THE JUNE 1942 EDITION OF THE BLUEPRINT)



October 18, 1918 – Mr. Colston, Chairman of the Mathematics and Mechanical Drawing Departments of the Manual Training High School, presented to the Brooklyn Engineers Club a paper on “The Modern Technical High School,” recommending a technical school course for Brooklyn boys.

February 1, 1919 – A technical course for boys was organized in the Manual Training High School with Mr. Colston as director.

June 4, 1922 – Mr. Colston, head of the Technical Department of the Manual Training High School was nominated Principal of the new Brooklyn Technical High School.

September 11, 1922 – The Brooklyn Technical High School opened in the building at 49 Flatbush Avenue Extension with 2900 pupils. There was an annex of 800 freshmen at Manual Training High School.

February 1, 1923 – First Commencement of BTHS. Mr. Colston lauded the class of 63 for their unremitting efforts and unselfish devotion during their last strenuous term.

January 1926 – The Board of Education selected a site on DeKalb Avenue and Ft. Greene Place for the proposed building for the Brooklyn Technical High School.

December 13, 1928 – The Board of Education granted funds for the erection of the Brooklyn Technical High School.

September 25, 1929 – Mr. Colston announced that the first aviation course given in any public school in the city would be given at Brooklyn Technical High School when the building was completed.

May 1930 – Plans for the Brooklyn Technical High School were approved. Radio and aviation to be taught.

September 1930 – Mayor Walker broke ground for the new building.

June 1931 – Tech is to have a radio station.

October 24, 1931 – The cornerstone of Brooklyn Technical High School was laid. Mr. Colston spoke at the ceremonies. Records of the school and tribute to Mr. Colston were placed in a copper vault.

December 1932 – Boys completed construction of a 200-watt radio transmitter.



September 9, 1933 – New building of Tech opens to 800 first year boys and the Electrical Course. First and sixth floors used. Kosciusko Annex abandoned.

May 1934 – P.W.A. loan granted to the Mayor – BTHS to be completed.

September 1934 – Mr. Colston selected Mr. Maxwell Starr to design the pictorial history of science for foyer murals.

February 15, 1935 – First Commencement in the new Brooklyn Technical High School.

April 11, 1935 – Official opening of Tech Auditorium. New York University Glee Club and Symphonic Band gave a benefit concert for the Tech Theater Fund. Mayor and Mrs. LaGuardia were present.

March 29, 1936 – Studios of WNYC were shifted to Brooklyn Technical H. S.

May 16, 1936 – Mr. Colston was honored at a dinner given by the Tech Faculty at the Towers Hotel. Among the distinguished guests were Mr. Turner, Dr. Roberts, Dr. Tildsley, Colonel Carlin and Dr. Bayne.

Fall of 1937 – Broadcasts to students over WNYC.

Spring of 1939 – WNYE Radio Station licensed.

June 14, 1939 – Brooklyn Polytechnic Institute honored Mr. Colston with a degree of Doctor of Laws.

February 1941 – Portrait of Dr. Colston, presented by the Faculty, was hung in the library.

Summer of 1941 – Defense classes met in Tech.

September 1941 – Tech’s Radio Station to have FM Transmitter.

December 1941 and January 1942 – Pageant, “The Road to Freedom,” given in Tech Auditorium.

June 1942 – Dr. Colston retires as Principal of Brooklyn Technical High School.

William Pabst

Rises to the Challenge

The glorious history of Brooklyn Technical High School cannot be told without highlighting the enormous accomplishments of Mr. William Pabst, Tech's principal from 1946-1964.

Mr. Pabst's contributions to Tech preceded his appointment as principal. One could say that he actually contributed to the building of the school we now call Brooklyn Tech. He served as Engineering Consultant to the Bureau of Construction and was largely responsible for the design of all the electrical facilities in school laboratories and the auditorium. In 1940, Tech began offering after school training classes, and Mr. Pabst organized and administered the "War Industries Training Program" at Tech for the duration of the war. In addition, he served as chair of the Electrical Department.

By the time he was selected as principal in January, 1946, he had become a well known figure to students and faculty at Tech. The students welcomed him warmly: "Greetings to our new principal. Tech is gladened at your coming. Your reputation as a progressive leader is wide. We look forward to a long 'reign' of benevolence and light, goodness and wisdom. We wish you well, as we count ourselves fortunate."

The times required a man of vision, and Pabst rose to the challenge. The awesome power of the atom had been discovered,



and a devastating world war had been succeeded by a cold war. Mr. Pabst recognized Tech's role in our nation's future, and he motivated Tech's student body to embrace the possibilities. In 1947, he challenged the students of Tech: "If you have been inclined to mark time until things 'get normal again,' stop waiting! For you, these times are normal. Change is normal!"

The importance of science and technology education could not be overestimated, and Pabst pushed forward. Pabst created new majors and refined older ones. Course major selections offered during his reign included: aeronautics, architecture, chemistry, electrical and electronics, industrial design, mechanical technology, structural technology, and technical college preparatory. He also emphasized a rigorous hu-

manities curriculum. *Horizons*, Tech's literary magazine, was created and advanced placement courses in history and English were offered in addition to those in math and physics. The percentage of Tech graduates who matriculated to college soared during his tenure as did student and faculty morale.

Mr. Pabst's influence extended beyond the Tech campus. He taught courses in industrial teacher training at Cornell University, he was an influential force in the creation

of the American Technical Education Association, and for many years he served as a consultant to the New York State Education Department Bureau of Technical Education.

The Tech student body hoped for an administration, under Mr. Pabst, that would offer a, "... long reign of benevolence and light, goodness and wisdom." From all accounts, Mr. William Pabst rose to that challenge.



Alumni Hall of Fame

The Brooklyn Tech Alumni Hall of Fame was established in 1998. Situated in the administrative wing of Tech, the Hall of Fame serves as a reminder and inspiration to today's Tech students.

The Hall of Fame recognizes distinguished alumni who have made Brooklyn Tech's name honored throughout the country and the world and who exemplify the best of Tech. Members of the Hall of Fame have achieved distinction in their respective fields in the hope that their examples will inspire new generations of students to appreciate an education stressing mathematics, science, engineering and technology. Nominations are submitted by alumni, faculty, students and parents.

Hall of Fame Inductees

2005 HALL OF FAME INDUCTEES

Joseph M. Colucci '54	<i>Engineer and Environmentalist</i>
Bernard Gifford '61	<i>Scientist, Educator, Change Agent</i>
Joseph "Tucker" Madawick '37	<i>Award-winning Industrial Designer</i>
George W. Sutton '45	<i>Mechanical Engineer, Author and Editor</i>
Paul C. Szasz '47	<i>International Civil Servant, Scholar and Champion of International Law</i>

2003 HALL OF FAME INDUCTEES

Joseph J. Jacobs, Ph.D. '34	<i>Engineer, Humanitarian and Author</i>
William L. Mack '57	<i>Real Estate Leader and Philanthropist</i>
Saverio "Sonny" Morea '50	<i>Award-Winning NASA Engineer</i>
Steven P. Shearing, M.D. '52	<i>Inventor and Ophthalmologic Surgeon</i>

2000 HALL OF FAME INDUCTEES

Harry Chapin '60	<i>Entertainer & Humanitarian</i>
Joseph J. Kohn, Ph.D. '50	<i>Eminent Mathematician</i>
Arno A. Penzias, Ph.D. '51	<i>Nobel Laureate</i>
Charles B. Wang '62	<i>Technology Pioneer</i>
Josh S. Weston '46	<i>Business Leader & Philanthropist</i>

1999 HALL OF FAME INDUCTEES

Col. Karol J. Bobko '55	<i>NASA Astronaut</i>
Donald L. Klein, Ph.D. '49	<i>Silicon Gate Transistor Inventor</i>
Sgt. Meyer S. Levin '34	<i>Decorated Air Force Hero</i>
Harvey Lichtenstein '46	<i>President, Brooklyn Academy of Music</i>
Leonard Riggio '58	<i>Founder & CEO, Barnes & Noble, Inc.</i>

1998 HALL OF FAME INDUCTEES

Frank A. Cipriani, Ph.D. '51	<i>President, SUNY Farmingdale</i>
Adam J. Cirillo '29	<i>Educator, Coach, Mentor</i>
Albert L. Colston, Ph.D.	<i>Creator & Founding Principal of Brooklyn Tech</i>
Gen. James E. Dalton '49	<i>USAF Four Star General</i>
Bernard Friedland, Ph.D. '48	<i>Engineer, Author, Distinguished Professor</i>
Meredith C. Gourdine, Ph.D. '48	<i>Engineer, Inventor, Olympic Medallist</i>
Stuart Kessler '47	<i>Chairman, American Institute of CPAs</i>
Marvin Kitman '47	<i>TV Critic, Author</i>
Sal Restivo, Ph.D. '58	<i>Professor, Author, Researcher</i>
George Wald, Ph.D. '23	<i>Biologist, Nobel Laureate</i>

Brooklyn Tech Alma Mater

Tech Alma Mater, Noble and True,
Proudly we rise to salute thee anew,
Loyal we stand now 6000 strong,
Wake, echoes, wake as we thunder our song,

Tech, we will sound thy triumphs,
Tech, we will sing of thy might and thy fame,
Tech, may we all bring thee glory,
All honor and praise to thy name.

Firm thy foundation, thy torch lights the way;
Guide us, protect us, thru bright days or gray.
Tower symbolic of truth and of light;
Here's to thy colors, the blue and the white!

Tech, we will sound thy triumphs,
Tech, we will sing of thy might and thy fame,
Tech, may we all bring thee glory,
All honor and praise to thy name.

This version is a combination of the late 50's/60's version and current Alma Mater.

The “Original” Tech Alma Mater

There's a little known story about our familiar Alma Mater that predates even the changes that were made in the 70's to reflect going coed and reducing the size of the student body. Back in the early 50's, the song went like this:

Tech Alma Mater, molder of men
Proudly we rise to salute thee again.
Loyal we stand, now six thousand strong
Wake echoes wake as we thunder our song:

Tech we will sound thy triumphs.
Tech we will sing of thy fa-----me.
Tech may thy sons bring thee glory,
All honor and praise to thy name.

Once a week we sang this rousing song at “assembly”, three thousand voices strong! When we got to the end of the sixth line the organ (yes we had an organ in the auditorium) would fill an empty measure with a series of chords “boom-ba-boom-boom-boom-boom”. It wasn't long before the entire student body was singing “Tech we will sing of thy fame, boom-ba-boom-boom-boom-boom”, much to the chagrin of the faculty and administration.

It took some time to come up with a solution that worked. Ultimately, the line was changed to read: “Tech we will sing of thy might and thy fame”, leaving no empty measure for “boom-booms”. That quickly put an end to it.

Norm Keller '54

“The educated differ from the uneducated as much as the living from the dead.”

— ARISTOTLE

Thank you, the faculty of
Brooklyn Tech, past and present,
for 85 years of giving life
to generations of future leaders,
thinkers and achievers.

Nadya and Achilles Perry '58

Reach With Me

21/21 Campaign Theme Song

A seed was planted
Many years ago
It made us who
We are today
And we're grateful, you should know

There's nothing more precious
As knowledge you can't buy
It inspires us
And encourages us
To reach up high

So come on "Reach With Me"
Come on "Reach With Me"
And the world will see
Everything that we can be

We build a strong foundation
For you and me
We're in this for good
We're doing what we should
To achieve our destiny

Our excellence is growing
We all can see
No star is too far
This is who we are
So come on and "Reach With Me"

So come on "Reach With Me"
Come on "Reach With Me"
And the world will see
Everything that we can be

We're gonna go
Where no one has gone before
You have to explore
If you want more
And nothing is out of our reach (oh yeh)

We'll strive to be the best
Put our mettle to the test
We'll reach for the moon
We'll reach for the stars
And you can always "Reach With Me"

So come on "Reach With Me"
Come on "Reach With Me"
And the world will see
Everything that we can be

We believe in ourselves
And we know what we must do
We won't take it on the chin
We know that we can win
And we can prove it, too.

We learn from our mistakes
We keep our options free
When things get tough
We won't give up
You can always "Reach With Me"

So come on "Reach With Me"
Come on "Reach With Me"
And the world will see
Everything that we can be

So come on "Reach With Me"
Come on "Reach With Me"
And the world will see
Everything that we can be

So come on "Reach With Me"
Come on "Reach With Me"
And the world will see
Everything that we can be

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Brooklyn Tech Alumni Foundation Celebrates 85th anniversary

Congratulations
to my good friend and classmate

Herbert Henkel

Class of 1966

"Herb Henkel is the kind of Brooklyn Tech grad that makes us all proud to be an alumnus. Herb runs a \$20,000,000,000 worldwide company and he runs it very well and I am convinced, as he is convinced, we all learned the basics at Brooklyn Tech.

I am proud to call Herb a friend and a Brooklyn Tech Classmate."

John Catsimatidis

Chairman
Red Apple Group
Brooklyn Tech Class of '66

Note of Thanks

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Joseph L. Briggs: Composer, Producer

Born and raised in Manhattan, Joseph Briggs, composer of “Reach With Me,” began playing two-handed Bach compositions with his father at the early age of three. He attended the Rudolph Steiner and LaGuardia schools, where his love of music was further inspired and cultivated. There he studied many instruments, including recorders, flute, french horn, piano, guitar, drums, bass and voice, as well as composition, arranging and conducting.

Enamored with the music recording process, Joseph began writing, playing, singing, arranging and producing recordings in New York City through his mid to late teens. Berklee College of Music in Boston was the next stop, where he studied guitar performance and film-scoring.

Joseph left Berklee to build his own recording studio in Manhattan, while he continued to collaborate with many musicians in various styles of music, creating recordings of his own music, as well as for clients. Jazz cornet player, Graham Haynes offered Joseph his first major label recording and engineering work on Polygram/Universal. Since then, Joseph has composed, produced, engineered and developed music in the industry, working with local talents in NYC from Roberta Flack to Wu Tang Klan.

Wired Planet is Joseph’s independent con-

temporary world music group - with composer / instrumentalist Jonathan Perl, incorporating a long list of incredible world music musicians, including 2007 Grammy Winner, Matt Darriau.



In addition to composition, production and performance, Joseph has been extremely active in artist development. Major label artists he has worked with in development include Brandon Wilde of Thisway (Warner Music), Lee Nestor and Luminous (Universal Music) – a collaboration with Sting’s producer, Hugh Padgham. Joseph’s latest project, Fallen Planet with singer / songwriter Katrina Connor, has had some syndicated rotation on CBS.

Joseph has written and produced music for film, television, radio and web companies. Some of his commercial clients include Revlon, Apple, Amica, ABC, CBS, Casini, Fearless Music, Thompson Creative, Roberta Flack / Rainbow Records, KDMX 102.9, Universal Music, Warner Music, etc.

Joseph creates his own music in his production studio in Chatham, NY, and also works intimately with artists and singer songwriters in composition, production and artist development. His Manhattan recording studio is located on the upper west side.

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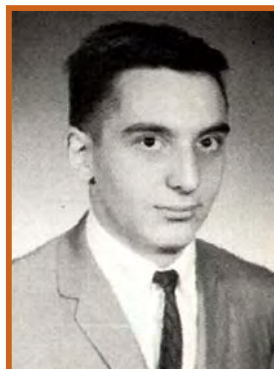
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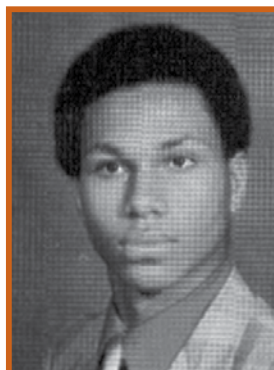
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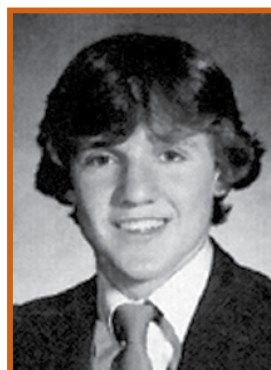
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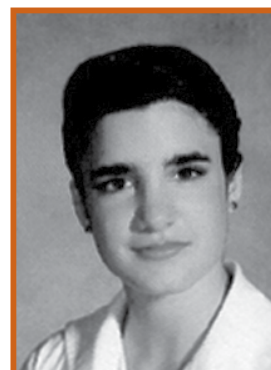
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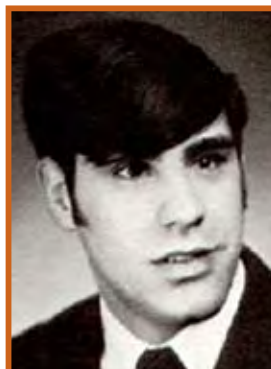
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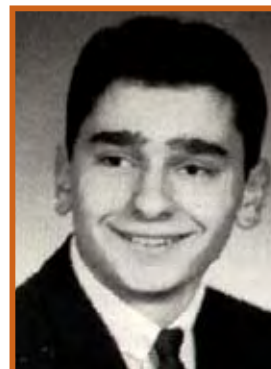
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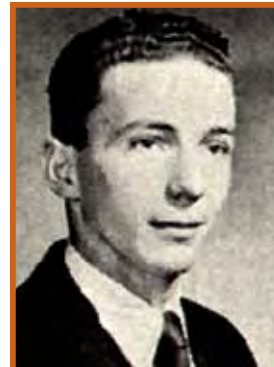
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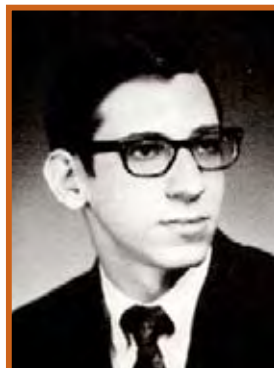
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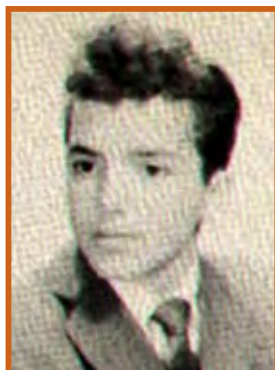


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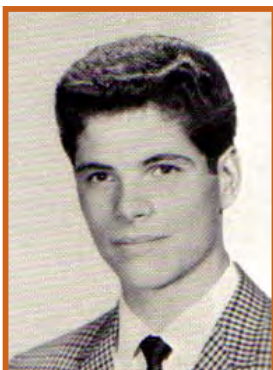


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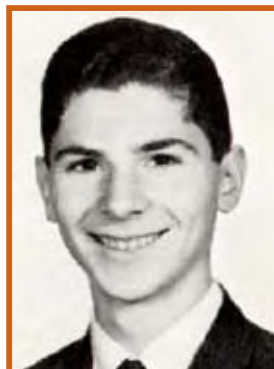
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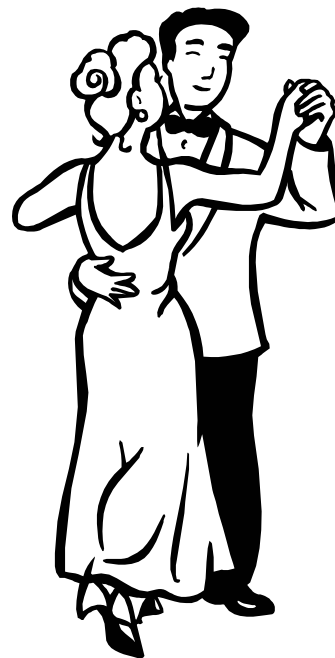
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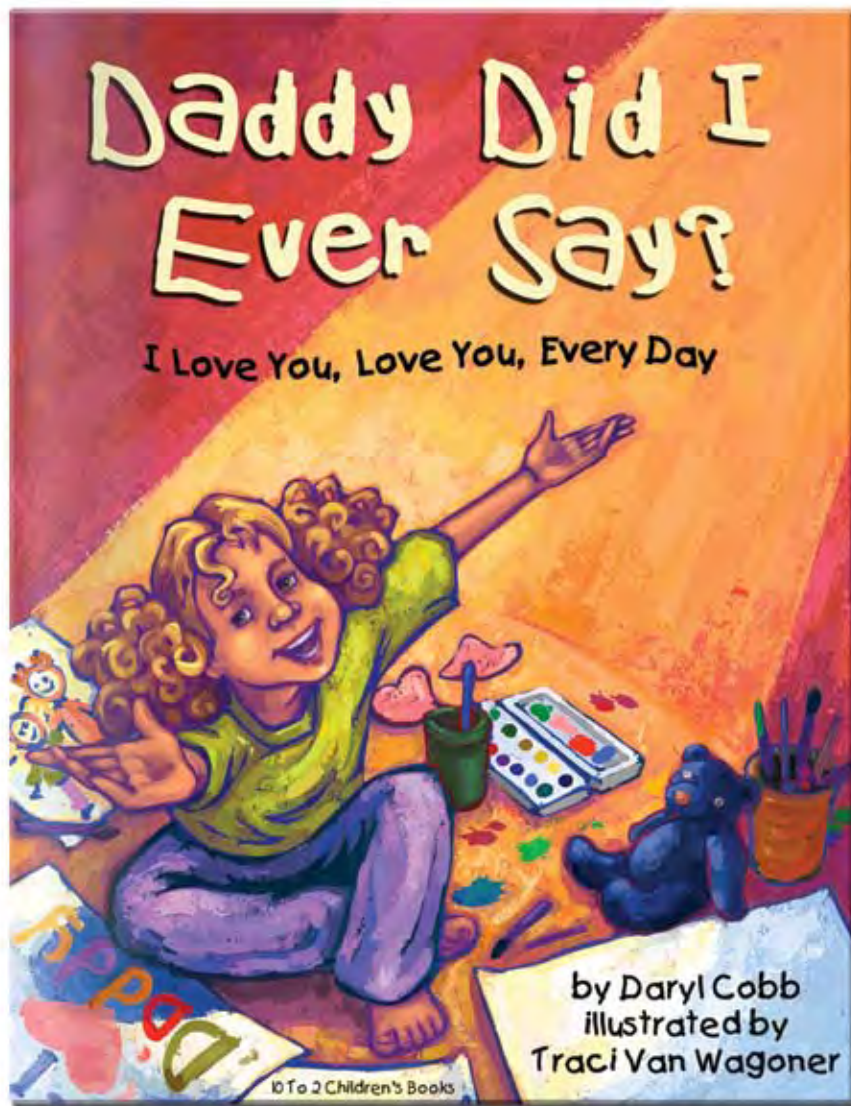
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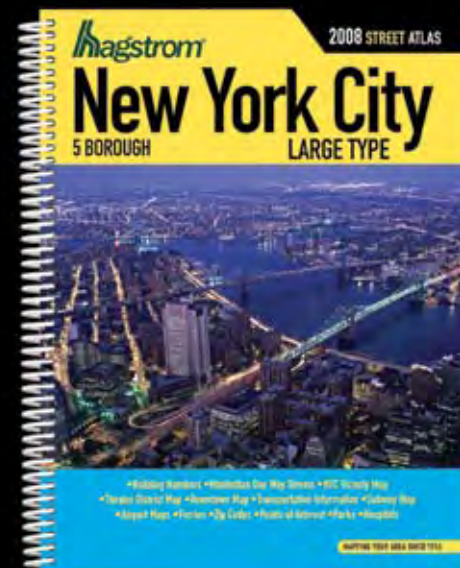
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TO MY PARENTS,
ANNA AND MATTHEW
FOR TAKING
THE TIME WITH MY EDUCATION



TO MY WIFE, NATASHA
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FOR GIVING UP SO MUCH
FAMILY TIME WHILE I
SCANNED ALL THE YEARBOOKS!



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Michael F. Parlamis, P.E.
Class of 1958

To my fellow Brooklyn Technical
High School Alumni:

*"He who neglects learning in his youth
loses the past and is dead for the future"*

EURIPIDES

*"And what Socrates is the food of the soul?
Surely, Knowledge is the food of the soul"*

PLATO

*"My great wish is to go in a strict but silent
performance of my duty; to avoid attracting
notice and to keep my name out of newspapers."*

THOMAS JEFFERSON

Congratulations to the
Gala Honoree

Herbert L. Henkel

And

Thanks to the
Brooklyn Tech Alumni Foundation

For all that they have done
and for all that they are going to do

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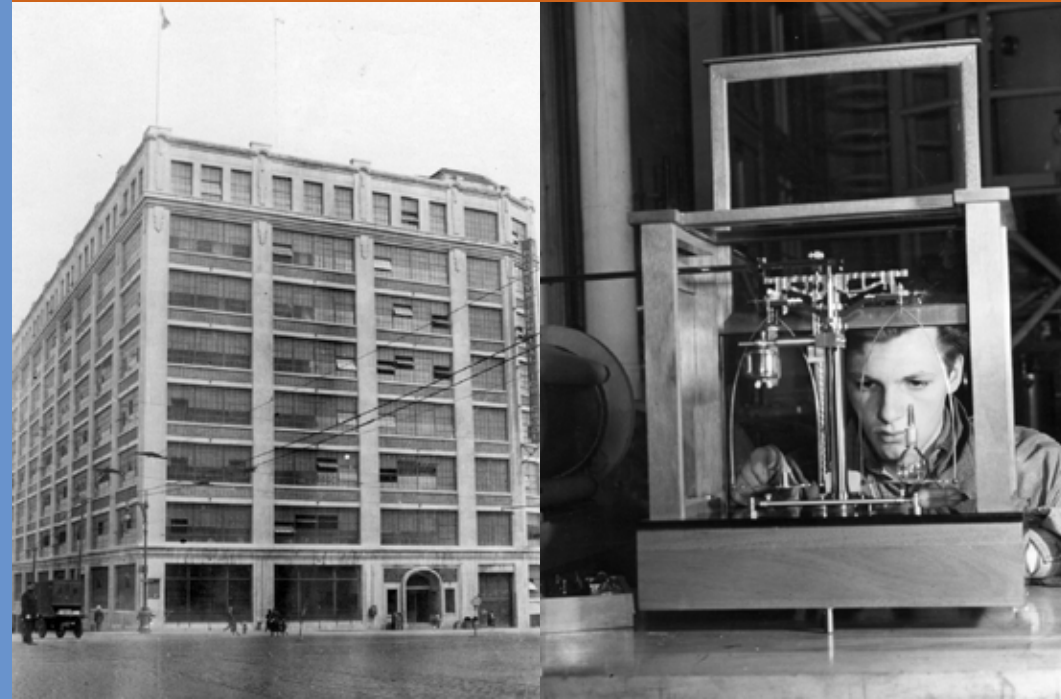
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For 85 years of excellence in education

Congratulations to
Herbert Henkel '66

Jim Fantaci '64
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{ BROOKLYN TECHNICAL HIGH SCHOOL 85TH ANNIVERSARY GALA }



BROOKLYN TECH
MADE MY LIFE.

—Isaac Heller '43

Remembering a Pioneer

Martin Kaltman '32, a pioneer of the lithographic printing industry in New York City whose firm printed all of the album covers for records released by the Beatles and the Rolling Stones in the 1960s, died on June 15, 2007, at his home in Old Westbury, Long Island of heart failure. He was 92.

Upon graduation from Brooklyn Tech, Kaltman, then 17, and fellow Tech grad Max Verebay opened the Kaltman Press, a commercial and job printing firm. In 1947, the company began printing album covers for long playing records, which had recently been introduced into the marketplace. With the advent of the lithographic



Martin Kaltman (right) welcomes Mayor Robert F. Wagner to a working print shop that Kaltman set up on the floor of Grand Central Terminal for two months in 1964 to demonstrate lithographic printing. Credit: Queens Group, Inc.

printing process, Kaltman and Verebay added a third partner and opened the Queens Lithographing Corp. in Long Island City in 1950. In the '80s and '90s, the company, then called Queens Group, Inc., began producing packaging for home video releases, video games and computer software in addition to packaging for all of the major record companies. Kaltman and his partners sold the company in 2000.

A philanthropist, Kaltman and his family and friends actively supported Brooklyn Tech through gifts to the Foundation. He also supported other organizations including the UJA-Federation, the Museum of Modern Art, the Botanical Gardens in Queens, Brooklyn and the Bronx, and the Juilliard School of Music where he endowed a scholarship.

He is survived by his second wife, the former Rosalie Podoll; a son, Eric of Old Westbury; a daughter, Gail Bates of Marietta, GA.; six grandchildren, and 12 great-grandchildren.

Congratulations Brooklyn Tech on your 85th Anniversary, Eric Kaltman, '60

