ALUMNI CIRCUIT

THE TWELFTH SALUTE

The accomplishments of alumni, faculty, students and friends of Newark College of Engineering were recognized in March at the school's twelfth annual Salute to Engineering Excellence, held once again at the Campus Center.

Alex Khowaylo '63

The three graduates honored as prominent NCE alumni have devoted their careers to improving orthopedic and cardiac health. Alex Khowaylo '63 lived in a displaced persons camp in Germany after World War II before emigrating with his family to America and settling in New Jersey. After completing his degree in mechanical engineering, he went to work for a firm that was part of the fledging orthopedic implant industry. He has since enjoyed a long career in the field, developing joint replacement devices for hips, knees and shoulders. He most recently was a co-founder of Implex Corp., serving as chairman and chief executive officer until the company was acquired by Zimmer Holdings in 2004. Implex developed the first new biomaterial for orthopedic applications since the early 1980s.

Robert C. Gorman and Joseph H. Gorman are both '84 alumni with degrees in chemical engineering. They subsequently graduated from the University of Medicine and Dentistry of New Jersey and today are associate professors of surgery at the University of Pennsylvania. They are also co-directors of the Gorman Cardiovascular Research Group, a laboratory focused on the design of devices for treating heart-failure and cardiovascular problems which receives support from the National Institutes of Health (NIH).

The brothers have served on numerous study sections and advisory committees for the NIH as well as the American Heart Association. Robert Gorman was recently recognized with a prestigious Established Investigator Award from the American Heart Association.

Turner Construction Company, where many NCE grads have built careers, was the recipient of the Outstanding Partnership Award for 2010. Since its inception in 1902, when Turner pioneered the practical use of reinforced-concrete design, the company has grown dramatically. Today, it is a $10 billion corporation with 46 offices and more than 5,000 employees nationwide. Turner's New Jersey office has built or managed the construction of many of the state's leading commercial, residential, institutional, industrial, sports and healthcare facilities, as well as buildings at NJIT.

Robert C. Gorman '84 (left) and Joseph H. Gorman '84

Receiving NCE faculty and staff awards were Basil Baltzis, Excellence in Teaching; Kevin McDermott, Saul K. Fenster Innovation in Engineering Education; Shivon Boodhoo, Excellence in Advising; Edna Shepherd Randolph, Outstanding Staff Award; Lynnette Randall, Maureen Fagan, Dean's Service Award.

The NJIT chapter of Engineers Without Borders received the Outstanding Student Chapter Award for their humanitarian efforts to provide the people of Milot, Haiti, with safe, clean water.

Students and future alumni recognized were Giancarlo Fricano (CE, Surveying EngTech), Saul K. Fenster Innovation in Design Award; Rui Zhang (CompE), NCE Outstanding Graduate Student Award; Salman Haider Naqvi (EE)*, NCE Outstanding Senior Student Award – Overall; Mariya Tohfafarosh (BME)*, Razmenka Lazoroska (CHE), Matthew Young (CE), Salman Haider Naqvi (EE)*, Vinskey Louissaint (EngTech)*, Phong Pham (EE, ME)*, Departmental Outstanding Senior Student Award; Lekshmi Pillai (CHE)*, Kate Boardman (EE)*, NCE Madame Mau Outstanding Female Engineering Student Endowment Award. ■

**Dorman honors scholars*

ALUMNI CIRCUIT

"You can't ask the right questions if you don't know what you don't know. NJIT deserves a great deal of credit for giving me the tools to ask the right questions and to make a difference in people's lives."
– *Arthur E. Hahn*

HONORING OUTSTANDING ALUMNI

2010 ALUMNI ACHIEVEMENT AWARDS

The presentation of Alumni Achievement Awards has become a highlight of NJIT's annual Class Reunion Weekend. The 2010 awards ceremony in May, sponsored by the NJIT Alumni Association, recognized six graduates for exceptionally diverse career accomplishments and service to their home communities, to our nation, and to the people of other countries.

AUSTIN L. ALVAREZ

Service to U.S. Navy Submarine Programs

Austin Alvarez has seen a lot of shocking situations over more than 40 years at Electric Boat Corporation in Connecticut. A division of General Dynamics, Electric Boat designs, builds and maintains nuclear submarines for the U.S. Navy. Alvarez is a staff engineer and technical leader for shock and structures development, vital work affecting the safety and survivability of the Navy's undersea fleet.

Alvarez's service to submariners began with his 1968 degree in civil engineering. Although he enjoyed playing junior varsity basketball during his first two years at NJIT, he switched to intramural competition due to the demands of his academic program. Of that program, he says, "I had many outstanding courses and professors, but the writing course I had with Doc Estrin still stands out in my memory. Being able to write well and communicate effectively has been invaluable."

Joining Electric Boat the year he graduated, Alvarez has ably applied all of his skills in the course of a career that began, as he recalls, when engineers worked with slide rules. As in every field, the introduction of computers was revolutionary. Dynamic shock analysis was among the key applications for Electric Boat – facilitating sophisticated modeling of the forces generated by events such as underwater explosions and their effects on submarine structures and attached equipment.

Austin Alvarez at Electric Boat Corporation's Graving Dock 3 before major reconstruction.

Alvarez had the opportunity to specialize in this analytical area early on at Electric Boat. He subsequently led efforts to bring a number of significant advances on board, including the application of the Underwater Shock Analysis Code to submarines.

In addition to his NCE degree, Alvarez has an MS in civil engineering from the University of Connecticut and an MBA from Rensselaer. He is a Professional Engineer registered in Connecticut. Numerous awards attest to his professional accomplishments. In 2005, he received the General Dynamics Technology Excellence Award for his contributions to structural engineering and shock design and analysis. In 2009, he was inducted into the University of Connecticut's Academy of Distinguished Engineers and honored with a Lifetime Achievement Award from the Shock and Vibration Information Analysis Center.

Alvarez is succinct when it comes to characterizing his four decades with Electric Boat: "I've never been bored a day on the job. There are always new challenges." Not long ago, he even had a major assignment with echoes of a part-time job he held while an undergraduate student. As an undergraduate, Alvarez worked part-time and summers for the Newark engineering firm that had designed several new buildings for NJIT's expanding campus, and he inspected concrete poured for the structures.

For a multi-year project launched in 2004, Alvarez led the design team that conceived unique strategies for using reinforced concrete to extend the service life of Electric Boat's three graving docks – the massive facilities where submarines are built and repaired. The legacy for the U.S. Navy and the nation is that Graving Docks 1 and 2 have been certified for 50 more years of service and Graving Dock 3 for 75 more years.

BENJAMIN P. D'ARMIENTO

A colorful career

A 1948 grad in chemical engineering, Benjamin D'Armiento has worked in a field literally full of color. For more than three decades, he earned professional prominence with dyes and colorants essential for applications such as printing and automotive finishing. His life has had figurative touches of color too – as a fencing champion, community activist and enthusiastic tour guide for foreign visitors to the U.S.

At Newark's Barringer High School, one indicator of D'Armiento's technical aptitude was the savings bond won in a competition sponsored by the 1939 World's Fair, whose theme was "Building the World of Tomorrow." "I won for the idea of an elevated monorail that would run down the median of a highway stretching from northern New Jersey to Atlantic City," D'Armiento says.

Although he worked at the Newark Public Library while studying to become an engineer, D'Armiento still managed

WE WANT TO HEAR FROM YOU!

Do you have news about your career, your family, an avocation? Share it in a class note for *NJIT Magazine*. And be sure to let us know if you have a new address.

On the Web, use the form at www.njit.edu/alumni/classnotes.

By e-mail, send news and photos with your graduation year(s) to alumni-classnotes@njit.edu.

Via U.S. mail to: Robert A. Boynton, Executive Director, Alumni Relations, New Jersey Institute of Technology, Eberhardt Hall NJIT Alumni Center, Room 218, 323 Dr. Martin Luther King, Jr. Blvd., Newark, NJ 07102-1982

Benjamin P. D'Armiento

to exercise his fencing skills. A champion high-school fencer, D'Armiento and several like-minded students parried initial administrative reluctance to reenergize the college's fencing program, suspended during World War II. "I loved the sport and was even able to continue as a coach at the YMCA in Newark for about 14 years after graduation," he recalls.

After receiving his degree, D'Armiento joined a firm named Interchemical, an association that lasted until 1996 through acquisition by United Technologies and BASF. Initially assigned to food container coatings, it wasn't long before he took on the work where he made a significant professional mark.

Managing design and construction of an automated facility in Indiana that produced and then pumped ink to a large printing plant was among the many high points of D'Armiento's career. Two patents also underscore his expertise – one for greatly accelerating the preparation of container coatings and another for the recovery of solvents used in printing and automotive finishing.

Before he retired from full-time work with BASF as manager of engineering for the North American graphics group, D'Armiento traveled widely in Europe to evaluate plants and operations. Back home, he was also a tour guide for visiting foreign staff. "I really liked to do it, and on weekends I would escort visitors to all the sights in Manhattan – the Empire State Building, the Statue of Liberty, and many other places. I think it's because I enjoy meeting different people so much."

As D'Armiento tells it, his sociability has led to forays into community activism as well. Living in Clifton, New Jersey, before retirement, he successfully organized neighbors to keep a developer from building an unwanted apartment complex. Today, D'Armiento lives in Toms River, Ocean County. Getting to know D'Armiento, the mayor recognized just the person to organize a petition drive aimed at asking residents to vote on changing the name of what was then Dover Township to Toms River – to avoid confusion with the Dover Township in Morris County. D'Armiento spearheaded the collection of signatures for a ballot question that voters enthusiastically passed.

D'Armiento continues to be very much engaged with his alma mater. He's on the Alumni Association's Board of Directors and the President's Alumni Advisory Council. A member of the Monmouth and Ocean County Regional Club, you'll also see him greeting alums and guests at events like Lakewood BlueClaws baseball games.

ARTHUR E. HAHN

Magnetic pioneer

It happens many millions of times each day around the world – the coded magnetic strip on a plastic credit card is automatically read to complete a purchase. The same technology makes it possible to use an ATM and to pay for riding on a subway or bus with a paper fare card. And it's all thanks to the role played by alum Arthur Hahn in the introduction of this indispensable innovation.

In the early 1970s, Hahn headed a small group at IBM charged with finding a practical way to incorporate a magnetic strip on plastic and paper cards using the "bar code" that the company had developed. As Hahn relates, "IBM understood the potential of the technology, and we had the assignment of determining the best method for putting that magnetic strip on plastic and paper cards and designing a fully automated production line." IBM had also convinced the National Retail Merchants Association to adopt their magnetic bar code as a standard, and the success of Hahn and his team would transform shopping and other daily activities.

Arthur E. Hahn

Yet this is not the only highlight of Hahn's career. He contributed to pioneering research in wireless communications and later launched a company that made a major change in the way electricity is metered.

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Hahn came to IBM via RCA Laboratories and Taft Electro Systems. After high school in Matawan, New Jersey, he attended the RCA Institute, becoming an electronics technician at the company's world famous research organization in Princeton. While with RCA, he attended NCE at night, completing a BS in electrical engineering in 1969. At RCA, he also participated in the invention of the first low-power chip for FM wireless communications. Hahn is named on the 1969 patent for this revolutionary contribution to wireless technology.

Attracted by opportunities in the emerging field of computers, Hahn moved on to Taft Electro Systems in Edison, where he designed a digital computer used by Grumman Aviation to download operational data from fighter aircraft on the tarmac. "This work made me a perfect fit for the job at IBM, in their Information Records Division," he says.

But Hahn admits that he's a "restless entrepreneur." After his magnetic code breakthrough at IBM, he started a company to market a product he conceived for metering electricity – the first digital kilowatt meter. The new firm, E-Mon, met the demand for "sub-metering." E-Mon units support tenant billing, cost allocation, demand management and energy conservation for multi-family homes, apartment complexes, commercial buildings, government facilities and college campuses.

Now living in San Diego, Hahn is retired from active participation in the highly successful E-Mon enterprise. He keeps a hand in business with activities that include real estate, and he travels widely. Speaking about a recent trip to China, he touched on the significance of education in that country's rise to economic power, and in his own life.

"You can't ask the right questions if you don't know what you don't know. NJIT deserves a great deal of credit for giving me the tools to ask the right questions and to make a difference in people's lives," Hahn says. "These days, it's amazing to see what the entrepreneurial spirit and education are achieving in China. I think education is really the solution for all the world's problems."

EDMUND H. HECHT

Professional engineer, arbitrator, international scholar

"Don't even mention seafoam green to me today," Edmund Hecht says with a laugh, recalling the institutional color he applied in copious amounts with an NCE painting crew in the mid-1950s. It was one of the part-time jobs he had while studying mechanical engineering. Hecht also worked in the college bookstore and on the switchboard. In more recent years, he's returned to the classroom as a teacher – sharing a wide range of knowledge at colleges in Texas and as a Fulbright Scholar in Ukraine.

"I owe a great debt to NCE," Hecht says more seriously. "I received a truly outstanding education. In addition, after my father became seriously ill, the administration helped to arrange my class schedule so that I could take what was a full-time job in the quality control lab at Hoffman Soda, part of the Pabst beer company. My shift was from 3:30 in the afternoon until midnight."

Edmund Hecht (far left) with his wife Bernis at a coffee cooperative in Honduras, where he volunteered to advise local planters on quality control for processing coffee beans as well as plant maintenance and reliability.

After graduating in 1956, Hecht accepted a job with General Electric, becoming expert in the installation and maintenance of turboelectric equipment for power plants. He also discovered his flair for marketing and management, enhanced by the MBA he earned at Southern Methodist University. This set of skills served him well when, in the 1970s, he co-founded a turbomachinery repair company in Corpus Christi, Texas. Hecht and his family had settled in Corpus Christi after years of traveling for General Electric.

Hecht built a very successful enterprise. But with their children grown, Hecht and his wife decided it was time to change course in life. He sold his share of the business and the couple spent time touring the U.S. and other countries.

Hecht's next venture was the Turbomachinery Repair Users Council, with success again stemming from his technical and managerial acumen. He brought original equipment manufacturers (OEMs) together with potential clients to explore mutual interests and promote the benefits of OEM service.

Subsequently, with the founding of EHco Services, Hecht applied his aptitude for bringing people together in much broader venues. On the technical side, EHco appraises many types of plants and equipment. But having acquired the necessary certifications, Hecht can also arbitrate and mediate issues ranging from neighbors arguing about a barking dog to disputes involving labor contracts and child visitation rights in a divorce. Sanctioned in many states as a way to avoid costly court

"Study hard, get involved, learn to be a good communicator, live by ethics. But be sure to enjoy your days at NJIT."
– *Walter H. Kraft*

trials, Hecht explains that his role as a mediator is to facilitate "civil discussion of differences." Arbitration is a binding procedure. "As an arbitrator, I'm really the judge and jury," he says.

Hecht has shared his knowledge and experience as an adjunct instructor at various schools in the Corpus Christi area, including Texas A&M-Kingsville and Embry Riddle University. He also works closely with many educational and service organizations in his community. Internationally, he's been a visiting university lecturer in Jordan and volunteered his skills as an executive in Armenia, Hungary, Romania, Serbia and Honduras. These commitments have been widely recognized with honors that include the President of the United States' Volunteer Service Award that he received in 2004 and 2007.

In 2009, as a Fulbright Scholar, Hecht taught business courses at Kremenchuk State Polytechnic University in Ukraine. Speaking of the experience, he reflects, "The people I met are very enthusiastic about building their free-market economy. You'd have to learn the culture and language. But if I were younger, I'd definitely think about doing business in that part of the world."

WALTER H. KRAFT

A moving engineer

Walter Kraft has had a long and rewarding career keeping people on the move. He's an internationally known expert in traffic engineering and intelligent transportation systems. Kraft started on the road to his first job in the field, at Edwards and Kelcey, with a 1962 BS in civil engineering. It was an association that would last more than 30 years.

Kraft was first given the choice of working in one of three areas: structures, highways, or something called "traffic." Looking further into his options, he chose the traffic department. "It struck me that traffic engineering was more of a 'people' profession, meeting the everyday needs of people who need to get from one place to another," he recalls.

In meeting these needs, Kraft rose from staff engineer to partner and senior vice president. Along the route, he worked on projects ranging from optimizing the flow of traffic for new and expanding shopping centers to installation of the first bicycle lane in Manhattan. He introduced personal computers at the firm. "For some, that was a genuinely traumatic change in the corporate culture," he says with a wry tone. During his time at Edwards and Kelcey, in addition to taking care of demanding professional responsibilities, Kraft added an MS in civil engineering and a doctorate of engineering science to his academic credentials – both from NJIT.

In 1994, Kraft headed in a new direction. He joined PB Farradyne, a subsidiary of Parsons Brinckerhoff, as a senior vice president. Over the next decade, Kraft served as president of PB Farradyne Engineering and vice president of Parsons Brinkerhoff Quade and Douglas. Much of his work focused on advocating and implementing the capabilities of "intelligent" traffic technologies made possible by the

Walter H. Kraft

fast-growing power of computers and advanced remote sensors. Electronic signage could now give drivers real-time information about road conditions and traffic flow. First responders could be routed more quickly to the site of accidents and other emergencies, with others on the road routed away from hazards that include especially dangerous secondary accidents.

A Professional Engineer licensed in more than a dozen states, Kraft's expertise has been widely honored, particularly by the American Society of Civil Engineers (ASCE) and the Institute of Transportation Engineers (ITE). He served as ITE's international president in 1987 and later in various leadership positions, including chair of the Future Directions Advisory Committee. In 1999, he was named an ITE Honorary Member – at the time only the 60th member to receive what the institute describes as the "highest recognition of notable and outstanding professional achievement."

Over the years, Kraft has also shared his knowledge as an adjunct faculty member at NJIT and schools across the country. In 2010, he continues to promote state-of-the art traffic engineering through his own consulting practice and as executive technical director for Eng-Wong, Taub & Associates.

Kraft was a key mover in developing NJIT's graduate transportation program, and he remains connected to the university as a member of the Albert Dorman Honors College Board of Visitors. His advice to the young men and women currently pursuing their educational goals at his alma mater – "Study hard, get involved, learn to be a good communicator, live by ethics. But be sure to enjoy your days at NJIT."

ROBERT M. ZANZALARI

Help in harm's way

Advanced radar, laser, electro-optic, infrared warning and countermeasure systems – these are just some of the technical innovations that Robert Zanzalari has helped to develop and deploy during his civilian service with the U.S. Army's Communications-Electronics Research, Development and Engineering Center (CERDEC). In the field, such advances have increased the survivability of ground vehicles and aircraft, including the Army's large helicopter fleet.

Today, at Fort Monmouth in New Jersey, Zanzalari is associate director of the CERDEC, which is part of the Army's Research and Development Command. He is responsible for overseeing a science and technology portfolio intended to give troops a defensive

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Robert M. Zanzalari

and offensive edge in battle. He's been working to provide this edge since 1982, when he graduated with a BS in mechanical engineering.

"I looked at various schools, including Stevens, but decided that NJIT offered the best preparation for the real-world workplace," Zanzalari says. A serious student, he didn't arrive at NJIT with the intention of also becoming a basketball star. "You might say I was recruited," he explains, after his height of six feet, five inches was noted by members of the Athletics Department. Persuaded to play, Zanzalari went on to score 1224 points, the 11th highest record in NJIT basketball history.

Zanzalari says that he accepted a position with the Army because he saw the opportunity to use his skills for a range of assignments much broader than would be the case as a junior member of most organizations in the private sector. Starting with the Management Information Systems Directorate at Picatinny Arsenal, he subsequently moved to Fort Monmouth and positions of increasing responsibility. His work has also taken him abroad to present the benefits of leading-edge military technologies to U.S. allies.

In the late 1990's, Zanzalari's forward-looking responsibilities involved charting the strategic direction of efforts by a team of 75 engineers and scientists. He has been responsible for assessing the revitalization of systems engineering across his Center as well, in keeping with initiatives launched by the Department of Defense and the Department of the Army.

After passage of the 2005 Base Realignment and Closure Law, Zanzalari was assigned to oversee transfer of major CERDEC operations to the Army's Aberdeen Proving Ground in Maryland. For the Army, this was the most complex move under the law. It was accomplished with maximum consideration for the personnel to be reassigned and without disrupting vital research and development initiatives.

Zanzalari has received a host of awards in recognition of his technical and managerial achievements. Among them are the Commander's Award for Civilian Service, the Army Achievement Medal for Civilian Service and the Superior Civilian Service Award.

In his current position, Zanzalari is working to marshal technical resources from both the public and private sectors that best meet the Army's needs. Yet whatever the technology or tactical use, the ultimate test will always be whether it helps our troops to accomplish their mission and bring them home safely from harm's way.

"All aspects of my work for the Army are satisfying," Zanzalari says. "But it's especially gratifying to hear from the men and women in the field that what we do saves lives." ■

PHOTO: DAVE RITTINGER

ARCHITECTURE ALUMS WIN WITH HOOPS

Justin Foster '08, Lauren Page '08 and Phil Kuehne '07 – graduates of New Jersey School of Architecture and members of the design collective KIT – teamed up to take first place in a charrette competition sponsored by the New York Architecture League. A charrette competition involves working intensely to meet a challenging project deadline. The team's winning design, which featured hundreds of hula hoops connected to form a canopy, was part of a temporary summer installation in the backyard of the SUPERFRONT art gallery hosting events for New York City Explorers, a Brooklyn-based nonprofit group. ■

CLASS NOTES

MAL & FRIENDS

***NJIT Magazine* invites new correspondents to join Mal Simon in sharing news about class members and alumni organizations. Professor emeritus of physical education and athletics, Mal was director of physical education and athletics, and men's soccer coach, for 30 years. In 1993, he received the Cullimore Medal for his service to the university.**

If you would like to be a regular correspondent, don't hesitate to send an e-mail to the editor of *NJIT Magazine*: dean.maskevich@njit.edu.

First, the latest news from Mal –

Hosted by **Jose Dias '85** and Maggie Dias, and **Cesar Gavidia '77** and Griselda Gavidia, the 11th Annual Florida Soccer Reunion was held on March 12-14. Attendees were treated to sumptuous dinners at the Dias home in Palm City and a lively picnic including a "Survival of the Fittest" soccer game at the Halpatiokee Regional Park in Stuart.

A special guest on the last evening of the reunion was **Martin (Marty) Hammer '80**. Marty, who lives in Berkeley, California, was on his way home from Haiti after spending two weeks there as a member of the Earthquake Engineering Research Institute. When he e-mailed me that he was going to Haiti and on the way back home would stop in Miami on the last day of our reunion, I asked if he could spend some time with us. Marty played soccer at NJIT and some of his teammates would be at the reunion. As the party was at the Dias home, Jose invited Marty to stay there. Marty brought his computer and gave a dramatic talk and slide show about conditions in Haiti.

Jim Moreno '73 made a hole in one on the par three thirteenth hole at the Belleview Biltmore Golf Club in Clearwater, Florida.

The German construction giant Hochtief AG has acquired E.E. Cruz & Co., a heavy and civil construction company based in New Jersey whose owner and CEO is **Ed Cruz '63**. The acquisition was a joint venture between Flatiron Construction of Longmont, Colorado, and Turner Construction of New York, subsidiaries of Hochtief. Ed will continue as CEO and all E.E. Cruz employees will continue in their current positions. Among the 250 employees are COO and President **Joe Malandro '70**, Senior Project Manager **Jack Tobin '87**, Project Manager **Gus Lijo '98** and Project Engineers **Pablo Lemus '03** and **Antonio Goncalves '86**.

Ray Bilott '56 tells an amusing anecdote about his varsity soccer debut vs. Long Island University in 1953. He writes, "I knew nothing about soccer when I joined the team under Alex Rae and really was there just in case someone got injured and they needed someone to fill in. But I loved sports and worked hard at all the practices, and although I had very little ball handling skills, I did have a strong leg and could kick the ball like a bullet. I actually got into the game as a right inside when one of our last remaining players got hurt. The next couple of minutes will always remain in my memory.

(From left) Griselda Gavidia, Cesar Gavidia, Martin Hammer, Joseph Dias, Jose Dias and Maggie Dias

The ball seemed to appear magically at my feet about 20-30 yards from the goal. As the LIU fullback came to challenge me, I took a mighty swing with my left foot, causing the defender to momentarily shy away. Of course, I had totally missed the ball. But I spun around and kicked the ball with my right leg, by some miracle making contact with the ball and sending a missile into the upper left corner of the goal for our first score. We won that game and it helped me earn more playing time from then on. Alex and everybody told me what a great 'fake' and shot I had made, never realizing what a lucky fluke it was."

2010 marks the 50th anniversary of the 1960 NAIA National Championship Soccer Team, which I had the privilege of coaching. Plans are being made to honor the team in October. But any celebration of this event would not be complete if we did not acknowledge those who started varsity soccer at NCE in 1951. You can read about the beginning of soccer at NJIT in a separate article written by **Jim Boyle '58** and **Kurt Carlson '53**.

Jim was the goalie on the 1951 team because no one else could play that position.

Following the 1951 season, he left college for a tour in the U.S. Navy as an aviation electronics technician. At the end of his enlistment, he returned to NCE for the 1954 season and played fullback for the next four seasons. Jim's active participation in college life included intramurals, the Athletic Association, Alpha Sigma Mu, the veterans fraternity, and as associate editor of the 1958 *Nucleus*. He was elected to Omicron Delta Kappa and Pi Delta Epsilon. Jim has the distinction of being the only player on the 1951 team to play on the first team I coached in 1955 and the only person to receive five varsity letters in one sport.

When I announced the 50th anniversary of soccer in 2002, Jim spent five years trying to convince me that I was wrong because he claimed the first team was fielded in 1951. It was my belief that this was a club team but Jim was equally convinced it was a varsity team. He finally showed me evidence that he was correct, which I acknowledged, along with a humble apology for being so stubborn, in one of my "Mal and Friends" columns. It was also my belief that the 1951 team was a club team that led me to allow Jim to play four more years of varsity soccer. Now

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that it has been proven that he erroneously received one letter too many, I have determined Jim may keep the five letters but the 1951 team will have to forfeit its season. Despite this minor disagreement, Jim and I are still great friends because we are both of Scottish descent and were born the same year. Jim was employed by PSE&G for 36 years, retiring in 1993 as general manager of purchasing. He has continued his association with NJIT by being an active member of the Alumni Association and the Highlander Athletics Advisory Board.

Kurt played soccer as a youngster in Sweden and for Thomas Jefferson High School in Elizabeth. He was a member of the baseball and bowling teams at NCE and began his soccer playing days in his senior year when his friends on the 1951 team convinced him to come out for the 1952 team. At the first practice, the coach (Alex Rae) commented that Kurt reminded him of "a big Swede named Kurt Carlson he had played against many times." When Kurt told him that was his father, Coach Rae asked Kurt to invite him to the next practice. His father could not refuse, and the two veterans had a great time reminiscing about some of their past battles.

Kurt's engineering career, which was interrupted by two years in the U.S. Army, includes positions with the U.S. Army Corps of Engineers and the New York Urban Development Corporation, which became known as the Empire State Development Corporation, in the Design and Construction Department. The period from 1980 until his retirement in 1998 was an exciting time in Kurt's career as he was actively involved in such projects as the Javits Convention Center, The Carrier Dome at Syracuse University, The Center of Engineering and Physical Science Research at Columbia University and the tramway to Battery Park City.

Enjoy the article that Jim and Kurt have written for this issue about the start of soccer at NCE, and the article about the work that Marty Hammer and his wife have done in Haiti. I hope their journalistic efforts inspire other alumni to share interesting reminiscences and experiences in brief articles.

And keep the news coming to me at mal.simon@njit.edu or coach7157@yahoo.com.

1950

Henry W. Ott (EE) received the 2009 PROSE Award for his book *Electromagnetic Compatibility Engineering*, published by John Wiley & Sons, in the engineering and technology category. The PROSE Awards presented annually by the Association of American Publishers recognize the best in professional and scholarly publishing by honoring distinguished books, journals and electronic content in over 40 categories.

1968

Joseph C. Muscari (IE) has been appointed to the board of management of automotive supplier Dana Holding.

1978

Major General Ellen M. Pawlikowski (ChE) is the commander, Air Force Research Laboratory, Wright-Patterson Air Force Base, Ohio. She is responsible for managing the Air Force's $2.2 billion science and technology program as well as additional customer-funded research and development of $2.2 billion. She is also responsible for a workforce of approximately 10,800 in the laboratory's component technology directorates, the Air Force Office of Scientific Research and 711th Human Performance Wing.

1980

Michael H. Armm P.E. (CE), MS '84 (CE) has been elected chairman of the Board of Trustees of Culpeper Regional Hospital in Culpeper, Virginia. The facility is an acute care teaching hospital affiliated with the University of Virginia Health System.

1986

Henry Duncan (IA) is the deputy head of risk for SG Equipment Finance USA, located in Jersey City. He previously spent 15 years with CIT Group, most recently as the chief credit officer for CIT's major global vendor relationships.

1987

David Hughes MS (Computer Science) writes that his firm, D. Hughes & Co., has been "selected by Digital Foundation Corporation as its exclusive trading partner for project management and related courses. The contract was awarded after a competitive bidding process conducted through the Registered Education Provider RFP system hosted by the Project Management Institute."

1989

Rich Nass (EE) has been appointed director of content for medical device brands at Canon Communications LLC.

1995

Mary "Maureen" Woods P.E. (CE) is the principal and president of Maxwell Consulting Engineers, Inc., based in Florida. She writes, "We specialize in providing non-conventional, cost-effective solutions for coastal engineering challenges."

1998

Bahia Munem MS (PTC) has been awarded one of seven Woodrow Wilson Women's Studies Dissertation Fellowships. She is now a doctoral candidate in the Women's and Gender Studies Program at Rutgers University in New Brunswick.

2002

Gary Dantico (ChE) shares the news that he is working for Nestle, managing the company's cruise ship beverage operations for the U.S. East Coast, the Caribbean, Europe and the Mediterranean area.

The first decade of NCE soccer culminated in 1960 with the team sharing the NAIA National Championship with Elizabethtown College in a 2-2 tie game that was called after four overtimes due to darkness.

STARTING TOWARD A NATIONAL CHAMPIONSHIP

BY JIM BOYLE '58 AND KURT CARLSON '53

1951: That's when soccer took to the field in a serious way at Newark College of Engineering, starting the Highlanders on the road to a national championship.

Spearheaded by Dolph Rotfeld '53, former New York Scholastic All Star, soccer became a varsity sport at NCE in the fall of that year. Comprised of players born in such countries as Austria, Brazil, Costa Rica, England, Greece, Ireland, Scotland and the United States, our team had a very international character. Although we did not win once in a four-game season, the team improved with each match, laying a foundation that future teams would build upon.

Losing to Pratt 0-10, Panzer 1-6 and Stevens 0-8 could have dampened our spirits, but we were having fun and knew we were improving. Our confidence was almost rewarded in our last game against Arnold College. We were leading 2-1 at half time on goals by Spyros Pappidas and Alfredo Serrano. Our lead almost increased to 3-1 in the third quarter, but a goal by Jerry Sorkin was disallowed when the referee ruled that Jerry was fouled and instead awarded us a penalty kick. Unfortunately, the kick was missed and Arnold tied the game, and in the closing minutes got the winning tally.

The many soccer balls we headed over the years have diminished our memory, so we couldn't come up with names for all those able to gather for the 1951 team photo we located. Here's who we could recall: (standing, left to right), Paul Kisciras '53, ?, ?, Steve Rotter '53, Dolph Rotfeld '53, Carmen Verrone '53, Anthony Yannotta, Alfred Serrano '53, Spyros Pappidas, (kneeling, left to right) ?, Jorge Miernik, ?, Jim Boyle '58, Gil Blair '54, Leo Blonarvitch, Jose Dominques-Rego. We'd appreciate hearing from the unidentified players or anyone who recognizes them. Please email either of us: Jim Boyle at deejim1059@optonline.net or Kurt Carlson at kle56@optonline.net.

With more than 12 lettermen returning, the nucleus of the 1952 team was essentially the same as the 1951 squad, and the season's results showed how much the team had improved. We were coached by Alex Rae, a part-time NCE student, and Professor Robert Swanson, chair of the Physical Education Department. Alex, who was born in Scotland and had played soccer for many years, used to watch the team practice at Branch Brook Park and volunteered his services as coach for the next three seasons. Because of our demanding academic schedule and the time needed to travel from NCE to Branch Brook Park by car or subway, we never had a full team at any practice.

With team captain Alfredo Serrano and Andy Latawiec on the forward line, and Dolph Rotfeld, Steve Rotter, Carmen Verrone and Jorge Miernik supplying defensive strength, we went from losing every game in the initial season to a 4-3-2 record in 1952. The opening game was a good indication of things to come as we upset highly favored Stevens 3-2. Prior to the game, Coach Rae implored us to do better than last year and try to keep the score to a reasonable 1-3 or 1-4. We said we expected to win – and we did.

After losing to Arnold College and Panzer College, we returned to the win column with a 4-3 victory over Long Island University. Following a loss to the U.S. Merchant Marine Academy, we pulled another upset, this time over a strong Trenton State Teachers College, 2-1. Our season ended with a 2-1 win over Pratt, and 1-1 and 0-0 ties with West Point and Queens College. Latawiec became the first player selected to the Eastern Area of the All-American Soccer Team.

(continued)

The 1951 soccer team

New Jersey School of Architecture alumnus Martin Hammer '80 and his physician wife Miriam Shipp visited Haiti for three weeks in April and May to contribute their professional expertise.

The 1953 team, captained by Anthony Yannotta, lost quite a few seniors from the 1952 team, so it was almost like starting over again and the season ended with a disappointing 1-7 record. 1954, led by co-captains Latawiec and Jon Ross '56, was another rebound year that ended with a 3-3-2 record.

In 1955, Mal Simon joined the Physical Education Department and took over the coaching reins from Alex, becoming NCE's first full-time soccer coach. His debut was as inauspicious as our first season, ending with a losing record. The team soon improved and, following three winning seasons, went on a tear of 22 games without a loss. The first decade of NCE soccer culminated in 1960 with the team sharing the NAIA National Championship with Elizabethtown College in a 2-2 tie game that was called after four overtimes due to darkness.

Today, NJIT is known nationally as a team not to be taken lightly. We take pride in knowing we were there in the beginning.

Dr. Miriam Shipp helped to meet Haiti's medical crisis.

REBUILDING AND HEALTH IN HAITI

The magnitude 7.0 earthquake that devastated the most densely populated area of Haiti in January 2010 killed 230,000, injured 300,000, and left over a million homeless. To help answer the enormous and urgent needs of the Haitian people, New Jersey School of Architecture alumnus Martin Hammer '80 and his physician wife Miriam Shipp visited Haiti for three weeks in April and May to contribute their professional expertise.

It was architect Hammer's second visit – his first was in March with a 25-member reconnaissance team from the Earthquake Engineering Research Institute (EERI) and the American Society of Civil Engineers (ASCE) to evaluate buildings and infrastructure in and around Port-au-Prince. The second trip was with a five-member historic preservation team from the World Monuments Fund to assess over 200 Victorian-era buildings in the "Gingerbread District" of Port-au-Prince.

During that time, Miriam Shipp attended patients in underserved tent encampments in Port-au-Prince and Carrefour, and at a free clinic at the Aristide Foundation. She saw up to 50 patients a day as a primary care physician, treating conditions such as malnutrition, hypertension and infectious disease. Shipp worked with the Haiti Emergency Relief Fund in conjunction with both Haitian and American clinicians. (www.haitiaction.net/About/HERF/HERF.html for more information).

Hammer continues his work in Haiti supporting sustainable

reconstruction as a representative of Builders Without Borders. This includes finding more sustainable alternatives to the prevalent concrete and block buildings that fared so poorly in the earthquake. Reviving vernacular building traditions will be an important part of this initiative, combining them with new understanding and technologies to create shelter that is earthquake-safe, hurricane-safe, resource-efficient and affordable. Pilot projects to involve and train Haitian builders will be an essential part of the effort.

For more information about Builders Without Borders: www.builderswithoutborders.org. ■

Architect Martin Hammer is assisting with reconstruction in Haiti.

IN MEMORIAM

Gene Schmid with his wife, Marie, in 2006

LONG-TIME COACH AND ADMINISTRATOR PASSES

John "Gene" Schmid, head coach of NJIT's baseball team from 1973 to 1997, passed away on June 12 at the age of 74. Schmid has been called the "winningest coach" in school history, having produced 393 career wins against 316 losses, with three ties. He also served NJIT for more than 20 years as director of career planning and placement.

During most of his coaching career, Schmid worked with his student-athletes on a voluntary basis, guiding them through many outstanding seasons while serving NJIT full-time in Career Services. For 25 years, he provided insightful employment counseling and advice on skills vital for job seekers, from writing effective resumes to making the best impression at an interview.

Also affectionately known to players as "Spud," Schmid came to Career Services in 1966 with a BS from St. Peter's College, and he later earned an MS at Montclair State University. In addition to coaching baseball, he was assistant basketball coach for two years and an advisor to Sigma Pi Fraternity. He retired from Career Services in 1991, but coached until 1997.

In 2002, Schmid was inducted into the NJIT Athletic Hall of Fame for his achievements as head baseball coach. The Highlanders won ten Independent Athletic Conference championships and a Skyline Conference championship. They made seven appearances in the Division III playoffs of the Eastern College Athletic Conference and won the championship in 1982, which led to the team's induction into the NJIT Athletic Hall of Fame.

Schmid's commitment to young athletes was not limited to baseball. He officiated at high school and college basketball and football games as well. He was a member of the New Jersey Baseball and Softball Umpires Association, and a member and past president of the New Jersey Football Officials Association and the International Association of Basketball Officials, Northwest New Jersey Board 168.

Schmid's dedication was recognized with many personal honors. He was named Coach of the Year by the Skyline Conference and accorded the same honor ten times by the Independent Athletic Conference. In addition to being a member of the NJIT Athletic Hall of Fame, he was inducted into the Independent Athletic Conference Hall of Fame in 1993 and the National Football Foundation Hall of Fame in 2006. Assistant chair of the Division III National Baseball Championship Committee for ten years, he received the New Jersey Collegiate Baseball Association Award in 1997.

The NJIT community also notes with great sadness the passing of the following alumni:

Arthur Worthington Goodale '37
Frank John Vecchiotti '43
Ned B. Sluyter '52, MS '55

ALUMNI CALENDAR

SAVE THE DATE!

CELEBRATION 2010

Friday, November 12
Pleasantdale Chateau
West Orange, New Jersey

NJIT's annual festive evening of dining and dancing in support of endowed scholarships for students.

Information:
Jacquie Rhodes
973-596-3407 or rhodes@njit.edu

Also visit www.njit.edu/celebration

11TH ANNUAL FLORIDA SOCCER ALUMNI REUNION

Friday-Sunday, March 11-13, 2011
Coral Spring, Florida
Hosted by Hernan Borja and Carlos Restrepo

All alumni, soccer players or not, are welcome.
For information contact Hernan at coachchico@myacc.net or Carlos at restcar@bellsouth.net.

For the most current information about all alumni events – including specific dates – visit www.njit.edu/alumni/events and the Websites of the individual clubs and groups listed.

Information is also available from the Alumni Relations Office: 973-596-3441 or alumni@njit.edu.

CORPORATE CLUBS

NJIT's Corporate Clubs provide valuable networking opportunities for alumni in the workplace while also assisting NJIT students and faculty. Current Corporate Clubs include: Eng-Wong, Taub & Associates, Hatch Mott MacDonald, PSE&G, Schering-Plough, Turner Construction and United Parcel Service.

Corporate Club information and events:
www.njit.edu/alumni/clubs

REGIONAL CLUBS

NJIT Regional Clubs are planning events across the country.

Check the Alumni Events Calendar and Regional Club pages on the Alumni Relations Website for more information:
www.njit.edu/alumni/clubs

YOUNG ALUMNI CLUB

The Young Alumni Club organizes social gatherings and networking events for alumni who have graduated within the last 20 years.

For information about Young Alumni Club activities, including career-advancement events:
www.njit.edu/alumni/clubs

ALUMNI REUNIONS

Planning for 2010 fifth-year anniversary reunions is under way for all classes whose graduation years end in "0" and "5."

For information about reunions and Alumni Reunion Committee meetings, visit your class Website at **www.njit.edu/alumni/class.**

Reunion information is also available from the Alumni Relations Office: 973-596-3441 or by email to **alumni@njit.edu.**

PHOTO: SCOTT JONES

A KICKOFF WITH HONORS

Dick Sweeney '82 (left), Albert Dorman Honors College Dean Joel Bloom, and Daniel A. Henderson at the colloquium on innovation and invention held in April, the first of the events commemorating the 15th anniversary of the college. Sweeney is co-inventor of the Keurig single-cup coffee machine, a founder of Keurig, Inc., and vice president for contract manufacturing and quality assurance. CEO of Intellect Wireless, Henderson is a sculptor, entrepreneur and inventor who holds 26 U.S. patents for innovations that include major contributions to wireless communications technology.