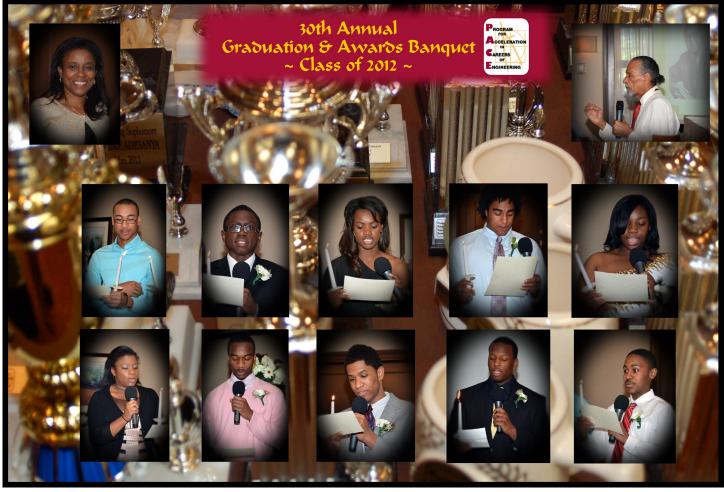
## PACE IS

Program for Acceleration in Careers of Engineering—Monmouth Branch

November 2013

## COMMITTING TO EXCELLENCE





Alexander Mirabal 30th Anniversary Logo Contest Winner



## About US

PACE (Program for Acceleration in Careers of Engineering), is a science and engineering awareness program in which professionals volunteer their time to work with local African-American and Latino high school students to help prepare them for technical careers. Emphasis is placed on mathematics instruction, engineering orientation, college preparatory skills, and cultural awareness. PACE was founded in October 1982 by members of the National Technical Association at Brookdale Community College.

The primary objectives of the program are to offer:

- Increase African-American and Latino students' awareness of and desire to pursue career opportunities in mathematics, science and engineering
- Enhance each student's academic preparation for such careers
- Mathematical and technical skills development
- Leadership development
- College exploration and preparation
- Hands-on learning experiences
- Understanding of the use and role of technology
- Mentoring relationships with scientists, engineers and other technical professional and
- A supportive learning environment that fully engages students, parents and staff

We achieve these objectives through a variety of methods including classroom instruction, mentoring, science projects, college trips, workshops, and guest speakers. In addition, we encourage parental involvement in all activities. Sessions are held on Saturday mornings (8:30 AM to 12:30 PM) from September through May at Brookdale Community College in Lincroft, NJ. Each Saturday students attend PACE according to the following schedule:



8:30 AM - 9:25 AM Eye-Opener Sessions 9:30 AM - 10:30 AM Math Classes

10:35 AM - 10:55 AM Break

11:00 AM - 12:30 PM Engineering Classes

Eye-Opener sessions provide college preparatory skills and introduce socially and culturally relevant discussions. These discussions have included such topics as: choosing colleges, resume writing and interviewing skills, coping with peer pressure, male-female relationships, and technical achievements of African-Americans, Africans, and Latinos. Guest speakers also deliver talks on leading edge technologies exposing students to possible career tracks.

Mathematics classes aim to reinforce the math skills the students are learning in school. Classes are offered in the following five (5) subject areas: Algebra I, Geometry, Algebra II and Trigonometry, Pre-Calculus, and Calculus.

Engineering classes expose students to engineering fundamentals. There are four (4) engineering classes that are taken in the following sequence by any student that joins PACE in the ninth grade: Introduction to Engineering, Electrical Engineering, Computer Science, and Senior Engineering and Leadership Development. Intro to Engineering covers a variety of basic engineering skills such as units of measure, drafting, circuit analysis, and an introduction to the Internet. Electrical Engineering covers basic electronics, both analog and digital. Computer Science teaches software design and programming concepts. Senior Engineering and Leadership Development offers students the opportunity to work on robotics projects. Senior Engineering also teaches leadership concepts drawing upon the highly acclaimed model, *7 Habits of Highly Effective People*, developed by Stephen Covey.

New in 2008-09 is the Scientific and Engineering Projects class, an elective, which teaches student how to conduct research.

Competitions and extra-curricular activities engage students in challenging, interesting, and fun ways. PACE - Monmouth holds an annual Thinkathon, Math Bowl, and Science Forum.

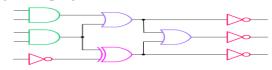
In the fall students participate in the Thinkathon, a team competition that tests the students reasoning ability. In the spring, the students participate in the Math Bowl. This team competition challenges the students' mathematical abilities. Both events tend to be fun activities for the students as well as the staff.

The Science Forum is a chance for students to work on a long-term (several months) research project. A staff member will act as an advisor, providing ideas for possible projects and guiding the group of students throughout the project. The students are required to complete the project, write a report, and present their results to staff, students, and parents at the annual Science Forum.

Other special activities include SAT workshops, career days, field trips, community service and cultural celebrations. Student leadership is encouraged and developed through activities such as student-run eye openers, Student Take-Over Day and student involvement in the governing of the program.







#### 2012-2013 Events

ZU1Z-ZU13 EVEIUS			
• Thinkathon	October 27 2012		
• College Tour	None		
• Winter Celebration	December 8, 2012		
• Engineering Trip	March 2, 2013		
• Open House	March 23, 2013		
• Math Bowl	April 13, 2013		
• Last Day of PACE	April 27, 2013		
• Graduation & Awards Banquet	May 11, 2013		
• Picnic/Cookout	July 2013		

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#### **PACE-Monmouth Governing Body 2012-2013**

Executive Director	Dr. Jennifer Barnett
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Treasurer	Carey Perry
Director of Events	Desery Benjamin
Director of Eye-Opener Program	Oswald Barrimond
Director of Mathematics Program	Dr. Silvano Brewster
Director of Engineering Program	Michael Perry
Parent Representative	David Benjamin

#### PACE Is...

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# 2012 Graduation

Graduates and their Legacy Statements





#### Jonathan Barnett

"There is no such thing as a 'self-made' man. We are made up of thousands of others. Everyone who has ever done a kind deed for us, or spoken one word of encouragement to us, has entered into the make-up of our character and of our thoughts, as well as our success."

George Burton Adams

Samira Anifowoshe

"Never mistake knowledge for wisdom.
One helps you make a living; the other helps you make a life."

— Eleanor Roosevelt

#### Ann-Marie Buckley

"Our deepest fear is not that we are inadequate. Our deepest fear is that we are powerful beyond measure. It is out light, not our darkness that most frightens us. We ask ourselves, who am I to be brilliant, gorgeous, talented, and fabulous? Actually, who are you not to be? You are a child of God."

Marianne Williamson











Monti D. Cooper

"The Lord is my light and my salvation; whom shall I fear.

The Lord is the strength of my life, of whom shall I be afraid."

Psalm 27:1.



Brandon Edwards



Ayeshia Morris

"Never be devastated or give up because of a loss, once you've tried you've automatically succeeded. Always strive for the best and reach for the highest stars because whatever is worth reaching for is worth having. So trust and believe in your friends, family, and most importantly yourself. Never forget that you are in charge of your life and your destiny so mold it how you want it to be."



Alexander Mirabal
"Always be your best, never
give up"

# and Awards Banquet



Justus Santana-Simmons

"There are millions of concepts and famous quotes that can be written and said to impart knowledge on the generations ahead. But quite frankly knowledge is power and many like to take the road of the hard fought and well earned knowledge that only comes from experience. That is all fine and dandy. I personally encourage the pursuit of knowledge. But what good is knowing but never using? Jay-Z once said "Ain't in this for the fame that dies within weeks, ain't in this for the money can't take it when you leave, I'm hear to be remembered long after I leave." It isn't important to be the richest or the smartest or the most popular. What the real goal in life? Its to make a positive impact on the people around you with the short amount of time that you have here on this earth."



Jarrett Brandon Walker

"If you are going to achieve excellence in big things, you develop the habit in little matters.

Excellence is not an exception, it is a prevailing attitude."

General Colin Powell



Ameer Dariel Javon Zackery

"Don't overlook great opportunities no matter how challenging the circumstances may seem. Just stick with God and He will see you through!"

Professor James Edwards West John Hopkins University Co-Inventor Foil Electret Microphone



## Guest Speakers Awe 2012 PACE Graduating Class

magine having the opportunity to be at your graduation banquet and during that event a person who you learned about in your history book emerges from that history book and brings history to life. Recall your personal history and look back to the time when you first entered PACE as a 14-year old and were asked in your Introduction to Engineering class to project yourself to the future and imagine the career you would be involved in as a 25-year old and how much money you would be making.

he PACE graduating class of 2012, the PACE undergraduates, the PACE parents, and the guests who attended the PACE Graduation and Awards Banquet, held at the Sheraton Inn in Eatontown, NJ on May 12<sup>th</sup>, 2012, had the opportunity to "look back" and listen to a keynote speaker who made some of the history they had read about in their history books. The students also had the opportunity to "look forward" to what their lives might become when they turn 25 years old via an alumni guest speaker who once sat in the same seats and attended the same program in which they are now attending in PACE. What these speakers had in common is that their educational journeys and their work careers epitomized the theme chosen by the graduating class of "Committing to Excellence."

Who was the famous keynote speaker who brought history to life on this momentous day in the lives of PACE students? It was the highly esteemed and legendary inventor, Mr. James West. It was the same Mr. James West who has been inducted into the prestigious National Inventors Hall of Fame. It was the same Mr. James West whose contributions to science and technology are prominently featured and on display at the Benjamin Franklin Institute in Philadelphia, where he was honored with that institution's 2010 Medical Award in Electrical Engineering.

or those who may not have heard of Mr. West, he is the holder of more than 200 United States and foreign patents on various microphones and techniques for making polymer electrets and transducers. More than 90% of all the microphones built and used in telephones, toys, and professional equipment today are based on Mr. West's contributions to the development of the electret microphone. What is the significance of Mr. West's invention? You need not go any further than to just look at any smartphone for the answer. It is the work by Mr. West in the development and invention of the electret microphone that helped make smartphones as we know them today possible.

r. West is currently a Research Professor at Johns Hopkins University. Prior to joining Johns Hopkins, he had a distinguished career as a scientist at Bell Laboratories, where he holds the honor of being a Bell Labs Fellow. Being named a Bell Labs Fellow is the highest honor that can be bestowed on a person in Bell Laboratories. Recipients of this award are not only recognized by the Bell Laboratories research community, but by the worldwide research community as well.

ates for their accomplishments and their pursuit of careers in Science, Technology, Engineering and Mathematics (STEM). As part of his presentation, he provided all of us with a history lesson on the many contributions African-Americans, Hispanics, and other underrepresented minorities have made to the STEM fields. He implored the students to learn more about the rich history of their predecessors and to become history makers themselves. He closed by providing the PACE family and their guests with biographical and contact information on some contemporary history makers, many

continue on page 10 ..

of whom Mr. West contributed prominently to their success, and who are now part of his network. Mr. West extended an open invitation to the graduates to make these movers and shakers part of their networks as well.

hat could have been a better way to send the 2012 PACE Graduating Class off to the next phase of their careers to pursue their dreams of becoming engineers, doctors, and scientists, as well as to inspire the next generation of PACE graduates to work harder so that they too can graduate from PACE and launch their careers, than to have the opportunity to see and hear a history making speaker who has lived the dream and has risen to the top of his profession. It was indeed an honor and a privilege to have Mr. West as our keynote speaker and help us celebrate our own 30 years of enriching the lives of our youth and inspiring them to become movers and shakers in the STEM field.

S to a vision of the future for PACE students, what better way to imagine it than to have a former student who once sat in the same classrooms they are sitting in now on Saturdays in PACE at Brookdale Community College, who had many of the same instructors, who took many of the same classes, and who did many of the same projects (including designing and building bridges) that many of them are doing now, come back for the 30<sup>th</sup> Anniversary PACE Graduation and Awards Banquet and provide them with insight on how PACE influenced his career. Who was this person who gave the students a vision of who they could become as PACE graduates? It was non-other than our own Class of 1998 PACE graduate, Mr. Folu Okunseinde.

PACE, and through college, Folu has blazed a path that has led him to become a Vice President at Goldman Sachs. At Goldman Sachs, he has taken the knowledge and skills inspired from his years in PACE to become the person responsible for computing systems that exchange money and securities with values in the billion plus dollars and transactions that take place in milliseconds or less for money markets that span the globe. His journey is indeed a fantastic story. It is a journey whose path included four years as a student in PACE, where at one time his plan was to major in Aerospace Engineering with an ultimate goal of becoming an astronaut.

olu is a present day mover and shaker whose success was envisioned by the staff at PACE as a high school student. Upon graduating from PACE, Folu attended the Massachusetts Institute of Technology where he received a B.S. degree in Computer Science and Electrical Engineering, then on to the University of Texas at Austin, where he received his M.S. degree in Computer Science. Folu is acknowledged as a Subject Matter Expert for high performance computing in the financial markets. In 2010, at the age of 29, he was recognized by Black Enterprise, and featured in their magazine as one of the 40 Next: Emerging business leaders under 40 who are shaping the future.

In his address to the PACE family and their guests, Folu relived his years in PACE from the time he came in as a freshman until his graduation, provided an overview of his career as a college student and at IBM, and gave us insight on his current responsibilities at Goldman Sachs. He also talked about his experiences as an intern at Hewlett Packard. He expressed his gratitude to the PACE staff for their contributions to his success, and extended a special thank-you to Mr. John Jones. It was Mr. Jones who saw the potential in Folu as a student in his computer science class and worked to get him an internship at Hewlett Packard. Who could have thought that being a student in Mr. Jones's computer science class would have sparked the flames and ignited the beginning of such an illustrious and phenomenal career?

e were indeed awed by our keynote and alumni speakers on a Saturday that happened to be Mother's Day Eve. As such we acknowledged the mothers in attendance and provided them well wishes, but this particular day in May belonged to the truly "special guests" of the banquet. These

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were the members of the graduating class. Every PACE graduating class is a special class. The graduating class of 2012 was no exception. They will be remembered as a class who elevated the standards for students currently in the program and students who will be attending the program going forward.

Holmdel High School who plans to become an Orthodontist and an Oral Surgeon; Mr. Jonathan Barnett, a graduate of Allentown High School whose passion and plans include Politics, and who as a senior in high school created his own Political Action Committee; Miss Ann-Marie Buckley, a graduate of Neptune High School who plans to become a Physician or an Obstetrician; Mr. Monti Cooper, a graduate of Colts Neck High School, who plans to expand his musical horizons by majoring in Communications and minoring in Performing Arts/Music; Mr. Brandon Edwards, a graduate of Howell High School who plans to major in Computer Science; Mr. Alexander Mirabal, a graduate of Matawan-Aberdeen High School, who plans to become a Computer Scientist; Miss Ayeshia Morris, a graduate of Neptune High School who plans to become a Pharmaceutical Chemist; and Mr. Justus Santana-Simmons, a graduate of Matawan-Aberdeen High School who plans to become a Mechanical Engineer.

ords cannot say enough about this graduating class. Even to say that they were outstanding could be construed as an understatement. They came into PACE as a freshmen class of fifteen plus students and from Day 1 started to display their talents and skills. They demonstrated, not just by words, but deeds that they planned, and were going to do, great things in PACE and beyond. As the eight remaining members of the initial class of fifteen plus, they not only lived up to the expectations, but exceeded them, as evidenced by their unprecedented accomplishments in PACE, in high school, and in their extracurricular endeavors. History is still being written on this class, but if their PACE years can serve as a gauge for their futures, their futures will be very bright to say the least.

and for those who think PACE is just about engineering, think again. PACE is about fun too! What better way to illustrate this than to close a banquet that featured a legend in STEM as the keynote speaker, an alumnus who is a rising star in the field of business utilizing his STEM background, an outstanding graduating class whose PACE legacy is second to none, and the diligent and hardworking PACE students who rose to the top of their individual classes as awardees for being the "best of the best" in the program, than to have a dynamic closing. The dynamic closing was provided by a parent of a member of the graduating class. It was the one and only Mr. Kenny Simmons. Mr. Simmons, who once performed with the legendary group the Commodores featuring Lionel Ritchie, wooed us with ballads and got the crowd on its feet with dance music that even awed a bridal reception that was being held in an adjacent ballroom at the Sheraton. What a way to end a great day!

The 30<sup>th</sup> Annual PACE Graduation and Awards Banquet was indeed a special moment in time to pause, to celebrate, and to remember. It was an occasion when the past, the present, and the future came together for only a few hours, but in the process created what became a great and exciting day, and in the end, provided a vision into what is expected to be many prosperous and rewarding years to come.

#### **About the Author:**

Michael Perry is the Lead Instructor (and architect) of the PACE-Monmouth Introduction to Engineering Class, and the

## 2012 Student Awards

#### **Class Awards**

Classes	Most Outstanding	Most Improved
Geometry	Kaitlyn Hyppolite	Mario Melendez
Algebra I	None	None
Algebra II	Steven Valle	None
Pre-Calculus	Samira Anifowoshe	None
Calculus I	Justus Santana-Simmons	Alexander Mirabal
Calculus II	Ayeshia Morris	Ann-Marie Buckley
Intro to Engineering	Kaitlyn Hyppolite	Jasmine Tankard
Electrical Engineering	Nicholas Silva & Steven Valle	None
Computer Science	Aderike Adesanya	Nathanael Ganthier
Senior Engineering & Leadership Development	Ayeshia Morris	None
Student Leadership at an Event	Kwanzaa MC Ayeshia Morris & Jonathon Barnett Banquet MC Ann-Marie Buckley & Justus Santana-Simmons	
<b>Student Run Eye-Openers</b>	Fall — Jasmine Tankard, Kaitlyn Hyppolite, Marcus Seitz & Isaiah Devereaux	
	February – Ann-Marie Buckley & Ayeshia Morris	
	March - Steven Valle, Jonathan Burnley & Mario Melendez	
Perfect Attendance Exemplary Attendance	Ayeshia Morris Kaitlyn Hyppolite & Taline Stewart	
Bridge	1st Place — Kaitlyn Hyppolite 2nd Place — Taline Stewart 3rd Place — Jasmine Tankard	
<b>Geometry Project</b>	Kaitlyn Hyppolite & Jasmine Tankard	
Calculus Project	Ayeshia Morris & Ann-Marie Buckley	
Thinkaton	Jonathan Barnett, Darwin Benjamin, Brandon Edwards & Amani Pinnock	
Math Bowl	Justus Santana-Simmons, Steven Jasmine Tankard	Valle, Brandon Mirabel &

Classes	
Outstanding Freshman	Jasmine Tankard
<b>Outstanding Sophomore</b>	Mario Melendez
<b>Outstanding Junior</b>	Aderike Adesanya
<b>Outstanding Senior</b>	Ayeshia Morris
All Round Student	Ayeshia Morris
<b>Book Grant</b>	Ayeshia Morris & Ann-Marie Bunkley

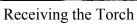




2012 Banquet Master & Mistress of Ceremony

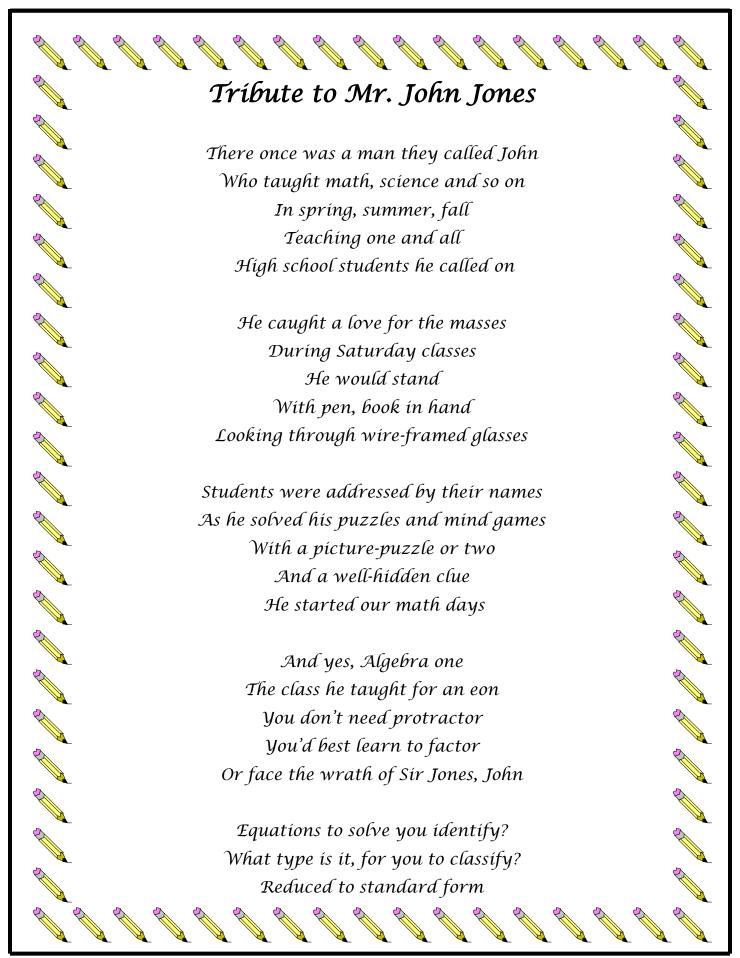
Trophies







Place Cards



Compared to one of the norms Factor it, solve it, and then verify! No bricks no mortar, no hammer But statement with syntax, no stammer Not Lisp, Cobol or Mathematical But coding in C, C++ or Java With skill as a master programmer A teacher with mental proclivity For algebra he had a propensity Dusk, noon until dawn The legend lives on He taught mathematics with profundity He takes attendance each morning at PACE Engages students face to face With an encouraging talk And a marker not chalk Training youth to finish the race John Jones we would like to salute you You know, you go guy, and you do! Impart your knowledge Prepare them for college Stay smart, stay true, We thank you!!! By: Dr. Andrew Edwards



## David Benjamin, II

**Air Force** 

Graduation

March 1st, 2013





Lackland
Air Force Base
San Antonio, Texas





**HURRICANE SANDY — OCTOBER 29, 2012** 

Hurricane Sandy was the deadliest and most destructive tropical cyclone of the 2012 Atlantic hurricane season, as well as the second-costliest hurricane in United States history. Picture depicted by *Nicholas Silva* 

#### How Hurricane Sandy Affected Our Community

hen Hurricane Sandy hit NJ, it was a lot worse than anything people were expecting. It did not help that we lost power for so many days. However, one thing that I thought about during the power outage was how there are probably people who were a lot worse off than I was. Therefore, the first opportunity that I had I went to see how I could help people. At first it was difficult with communications being spotty, it was hard to find where help was needed the most. Alas, I was able to coordinate with a friend to volunteer at a food and clothing distribution site in Union Beach. When I got their I was rather surprised to see that although there were many adults, there were also quite a lot of kids my age and some a bit younger there at nine in the morning willing to help out on a Saturday. As the day progressed, people came and left but the amount of youths stayed relatively constant. It was nice to know that there were a lot more kids out there that had a sense of community with people they did not even know and help them when they needed help the most. Who knows, maybe by helping out the people who came, they in turn may be able to help others who they may meet. After this experience, I can clearly see that even though it was a rough time for a lot of people we came together, especially the youth, to try and help others through this tough time. I think that even though youths played a role at this event in Union Beach, the youths as a whole could be a lot more helpful in the communities that they grow up in. I also volunteer with my local Youth Group, and I have recently realized that even though there are quite a lot of youths willing help out, there are also a lot that do not really try to help anyone besides themselves. Now this can be very problematic for them and the community. For starters, with some of the youths not setting a good example it will lead to the generation after them having a bad precedent to have to follow. However, if all the youth do in fact learn how to think of others before themselves then it can turn out a lot better for them than they could probably ever know. When they learn to care about others before themselves, they will learn how to make sacrifices. They will also learn how to lead others toward a common goal whether it will affect them or if it is just for the greater good of the community that they live in.

By: Darwin Benjamin

# Community Service - 2013



# Lunch Break, Red Bank, NJ

- n Saturday, May 18th, 2013 nine members of the PACE family went to Lunch Break in Red Bank and helped stock the Pantry with food received from their Community Food Drive.
- The following individual were involved, in the front row are Simone Perry, Jasmine Tankard and Yvette Tankard. In the back row are Nicholas Edwards, Pauline Perry, Petro Mirabal, Brandon Mirabal, Darlene Benjamin and Desery Benjamin.
- Relow is a letter from Lunch Break thanking us for volunteering.



Notation from Pauline Perry



June 6th, 2013

#### CELEBRATING 30 YEARS OF DEDICATED SERVICE

Dear PACE Family,

On behalf of the Board of Trustees, the Community Food Drive Committee, our staff, volunteers, sponsors and our clients who benefit from this tremendous outpouring of generosity, I'd like to say "Thank You!". We thank you for your work during the event and for your foot drop-off.

Because of you and your support, we were able to collect almost 24,000 pounds of food and donors are still dropping off to this day. With hundreds of families coming in every month for an emergency food package, this food drive is a big help for us.

The weather was good, the music was fantastic, the food, the people, the energy and enthusiasm, everything was wonderful.

We hope that you will be a part of this event in 2014.

Thank you again,

Susan Haugenes Committee Chair Board Vice President

## HERITAGE CELEBRATION DECEMBER 8, 2012





### PACE – Monmouth Needs You

#### If you like to:

- •Teach
- Mentor
- •Coach
- •Plan Events
- •Be Creative
- Raise Funds



#### Then get involved with the PACE Team!

**PACE** (*Program for Acceleration in Careers of Engineering*) is a science and engineering awareness program in which professionals volunteer their time to work with African-American and Hispanic high school students to help prepare them for college and technical careers. PACE Monmouth is in need of **new volunteer staff** to help grow the program.

For more information about the PACE program, contact:

John M. Jones

**Recruitment Coordinator** 

recruitment@pace-monmouth.org

Or send inquires to:

**PACE Monmouth** 

P.O. Box 493

Lincroft, NJ 07738

**Attn: Staff Recruitment** 

www.pace-monmouth.org

#### PACE IS . . .

The PACE Is newsletter is a forum for disseminating news of interest to the PACE family and show-casing the talents and accomplishments of the PACE-Monmouth students. We solicit news, articles, essays, poems, artwork and photography, especially from students. Please submit contributions via e-mail to newsletter@pace-monmouth.org or by U.S. mail to

#### PACE Is, P. O. Box 493, Lincroft, NJ 07738

Back issues of PACE Is can be obtained in PDF format from the PACE-Monmouth website:

www.pace-monmouth.org.

#### **Acknowledgments**

The following companies, organizations and individuals have made donations in the form of cash, goods or services in order to help make PACE-Monmouth a success. We appreciate each and every one of them for forming a partner-ship with PACE to help develop the technical skills and leadership potential of our students.

<b>Business and Institution</b>	Individual Contributors	
Sponsors and Contributors	Ms. M. Anifowoshe	Ms. K. McGregory-Barnes
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