

# PACE IS . . .

Program for Acceleration in Careers of Engineering—Monmouth Branch

April 2012

## NEVER QUIT — NEVER GIVE UP!

### 29th Annual Graduation and Awards Banquet Theme



This theme, “Never Quit—Never Give Up!”, means different things and is executed differently by everyone. It was well presented at the banquet by our Alumni, Ms. Simone N. Perry and Keynote speaker, Mrs. Bertha Williams-Pullen. They took different approaches but came to the same conclusion—when the going gets rough -”Never Quit — Never Give Up!” There is always a light at the end of the tunnel.

Our banquet which was held on Saturday May 14th, 2011 started with the procession of our graduating seniors, David Benjamin II, Karen Melendez and Danielle C. Perry. Our own Monti Cooper lead the singing of the “Negro National Anthem”. He did an extraordinary

performance. I received goose bumps listening to him sing. Well done Monti!

*continued on page 8*



November 10 - 12, 2011  
College Tour Adventure

See full story on page 10



# 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.

$$\frac{dy}{dx} = \lim_{\Delta x \rightarrow 0} \frac{\Delta y}{\Delta x}$$



$$\int_a^b f(x) dx = F(b) - F(a), \text{ where } F'(x) = f(x).$$

### 2011-2012 Events

- Thinkathon October 22 2011
- College Tour November 10 - 12, 2011
- Winter Celebration December 11, 2011
- Engineering Trip February 20, 2012
- Open House March 31, 2012
- Math Bowl April 14, 2012
- Last Day of PACE April 21, 2012
- Graduation & Awards Banquet May 12, 2012
- Picnic/Cookout July 2012

### **PACE-Monmouth Governing Body 2011-2012**

Executive Director	Dr. Jennifer Barnett
Deputy Executive Director	Dr. Andrew Edwards
Secretary	Pauline Anderson-Perry
Treasurer	Carey Perry
Director of Events Planning	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

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### **PACE Is...**

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Printed By	Brookdale Community College

# Graduating Seniors

*and their Legacy Statements*



**David Benjamin II**

**“You tell me, I forget;  
You teach me, I remember;  
You involve me, I learn.”**

**Benjamin Franklin**



**Karen Melendez**

**“Keep your dreams alive.  
Understand to achieve anything require faith  
and believe in yourself, vision, hard work,  
determination and dedication.  
Remember all things are possible for those who believe”**  
**Gail Dever**



**Danielle C. Perry**

**“No one can make you feel inferior  
without your consent”**

**Eleanor Roosevelt**

# 2011 Banquet



# 2011 Student Awards

## Class Awards

Classes	Most Outstanding	Most Improved
Geometry	Amber Salik	Steven Valle
Algebra I		Itohan Obayuwana
Algebra II/Trig	Samira Anifowoshe	
Pre-Calculus	Justus Santana-Simmons	
Calculus	Danielle C. Perry Ayeshia Morris	Ann-Marie Buckley
Intro to Engineering	Amani Pinnock Steven Valle	David Redd
Electrical Engineering	Aderike Adesanya	Ameer Zackery
Computer Science	Ayeshia Morris	Cameron Keyes
Senior Engineering & Leadership Development	Danielle C. Perry	
Student Leadership at an Event	Kwanzaa — Ann-Marie Buckley & David Benjamin, II Banquet MC — Danielle C. Perry & Karen Melendez	
Student Run Eye-Openers	Fall — Ayeshia Morris, Ann-Marie Buckley, Travis Williams & Andrew Wildeman  February – Samira Anifowoshe, Alexander Mirabal Brandon Mirabal & Justus Santana-Simmons  March - Ayeshia Morris, Ann-Marie Buckley, Andrew Wildeman & Travis Williams	
Perfect Attendance Exemplary Attendance	Ayeshia Morris Aderike Adesanya, Darwin Benjamin, Olalekan Odejobi Steven Valle & Ameer Zackery	
Bridge	1st Place — Mario Melendez 2nd Place — Brandon Mirabal 3rd Place — David Redd	
Geometry	Jonathan Burnley	
Calculus	Ann-Marie Buckley, Ayeshia Morris & Danielle C. Perry	

Classes	
Outstanding Sophomore	Aderike Adesanya
Outstanding Junior	Ayeshia Morris
Outstanding Senior	Danielle C. Perry
All Round Student	Ayeshia Morris
Book Grant	Danielle C. Perry

## *A Bird's Eye View of the Banquet!*

Presented by  
Ayeshia Morris - PACE Senior

The graduation and awards banquet in 2011 was yet another to be remembered. Although we said goodbye to some of our own, we did it in a stylish and interesting way. We had performances by Kenneth Simmons who wasn't the only singer that captured our hearts, Monti Cooper sang the Negro National Anthem. Apart from our wonderful performances we enjoyed the meal as a whole. During that time, we took the time to communicate and socialize with people we may see soon or people we may not see for some time.

We had two amazing speakers who took the time out to send us a message about never quitting and never giving up, which was the theme chosen by the graduating seniors. The first speaker was one of our own, Simone N. Perry. Ms. Perry was not just a speaker she was our Alumni speaker, she had participated in PACE herself and came to share an important lesson to us. She read a beautiful poem from her published book titled "My Journey Thru Poetry". Secondly, our keynote speaker was none other than Mrs. Bertha William-Pullen, who is the assistant superintendent of the Neptune township public school. She also spoke about being persistent and never giving up.

The performances, the speeches, and the awards all made the 2011 graduation and awards banquet one to remember. It was nothing like seeing the faces touched by the songs that were sung, the speeches that were spoken or even seeing the satisfaction of receiving that award for their hard work and dedication. Not to forget that we let go of David Benjamin II, Karen Melendez, and Danielle C. Perry.

...from cover page

The MCs, Danielle Perry and Karen Melendez, presented themselves in a professional manner. They kept the function moving.

The awards ceremony was a warm surprise to all its recipients. Their parents must be proud. As usual Mr. Simmons was electrifying rendering two great selections. He had the audiences dancing in their seats and some in front of the audiences.

The torch was turned over to Ayeshia Morris and Jonathan Barnett our 2012 graduates. Overall the Graduation and Awards Banquet was a great success as usual.

See Page 7 for Ayeshia's interpretation of the 2011 Banquet.

*Danielle Perry, PACE Alumnus (class of 2011)*



# What Do We Love About Christmas?

What do we love about Christmas?  
Does one delight reside in things?  
Or are the feelings in our hearts  
The real gift that Christmas brings.



It's seeing those we love,  
And sending Christmas cards, too  
Appreciating people who bring us joy  
Special people just like you!



presented by:  
*Kyla Hughley, PACE Sophomore, at Kwanzaa 2011*



# Who Is Your Cheerleader?

Jasmine Tankard, PACE Freshman

**B**elieve it or not, everyone needs a cheerleader in their life. Whether they wear a uniform and can do crazy stunts is optional. However, everyone needs someone to inspire them and cheer them on. Everyone needs someone that believes in them and they can depend on. Everyone needs someone they can trust and confide in.

**P**eople need a cheerleader in their lives because it's hard to inspire yourself. Whether you are trying to lose weight or write a report, trying to encourage yourself is extremely hard.

**S**ome people select a cheerleader who is someone very close to them. It can be a parent, a relative, or a close friend. This person is there to encourage you and otherwise help you on your journey through life. Just as cheerleaders do on a team, we cheer you on, which is something everyone needs.

**T**ake me for example. I am a cheerleader for Marlboro High School's football and basketball teams. Whether they are behind or in the lead, I cheer them on and try to keep their spirits up. When they try to inspire themselves, they often get angry and frustrated with themselves, their teammates, the other team, and their coach. That's where we come in. We lift their spirits and try to relieve their tension and stress. As cheerleaders, we also strive to inspire the crowd and try to lighten the overall mood of the game. Even when we are losing, we still prevail. During the 2011 football season, our team didn't win one game. We went into every game optimistic and hopeful that they would pull off a win. We tried to keep the players' spirits up through thick and thin. Now apply it to real life. Replace a football game with everyday struggles and replace the school cheer team with someone you can call your cheerleader.

**I** don't know where I'd be without my cheerleader, my mom. My mom has, is, and will always be there for me. No matter what I do or say she is accepting. She gives me advice and helps me in everything I do. She takes me to doctor/hospital visits, she takes care of me when I'm sick, she helps me with anything I need, and she inspires me to be like her. She has seen me at my best and my worst, and I can talk to her about so much.

**I**n closing, think hard and make sure that you have two or three people that you can call your cheerleaders because in the end you'll want someone to have your back.

# College Tour 2011

## PACE College Tour November 2011

**A**t 6:30 am on November 10<sup>th</sup> the bus drove off from the Brookdale campus headed for Pittsburgh. There were a total of twenty five students; a mix of juniors and seniors, sophomores and even a few freshmen. We were excited for this year's college tour - notebooks and pens ready to jot down any and every piece of information that would make our college search experience a simpler one.

**W**e first arrived at Robert Morris University on Thursday. It was cold and windy but that did not hinder our will to learn about their engineering department. We noticed many projects in the manufacturing aspect of engineering and a couple of competition pieces that were created by the students themselves.

**T**he second day of the trip was most exciting. We visited the campus of the University of Pittsburgh and Carnegie Mellon. The day was jam-packed with walking around the city and listening to the exciting stories behind the schools. We took it all in and quite a few students planned to apply to the University of Pittsburgh because we came, we saw, and we liked!

**T**he trip got even more exciting when we decided to stop for dinner. The bus pulled into the parking lot of Wendy's. There was a Subway right across the street for options. We joked around and laughed as we waited for our orders, and finally it was time to get back to the hotel and prepare for the next day's journey. There was one problem; the bus literally got stuck in a rut and was half way in the street! What were we going to do now? Several of us had planned to get into the pool that night before it closed at 10 pm.

**W**e calmed down, and decided to say a breath of prayer as the engineers tried to find a solution to our dilemma. It was all that we could afford at the moment. A group of us walked back to the hotel, a refreshing walk, if I do say so myself. We even raced; our adrenaline levels were so high, we were laughing for no apparent reason. It was fortunate that we got back in time for a fifteen minute dip in the pool.

**T**he third and final day, we visited Duquesne University and learned about their physics department which had 2-3 year programs with the University of Pittsburgh. The campus was small and unique; the perfect setting for a determined student. After our tour, we headed back to the now fully operating bus, so we thought. The trip was concluded with a visit to Dave and Busters where we ate and played games for a portion of the afternoon.

**A** couple hours into our journey home the adventure never stops. Of course, the bus broke down on the dark highway. We had to wait forty-five for the computer to reset itself before continuing our journey home.

**T**he PACE family shared an exciting weekend in Pennsylvania. It was educational and fun filled with little hurdles here and there. But altogether this college tour will be remembered for a very long time.

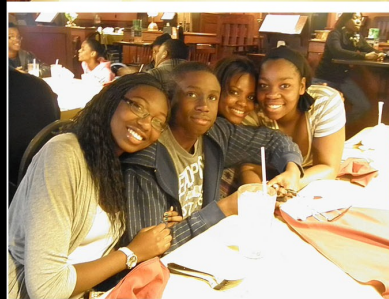
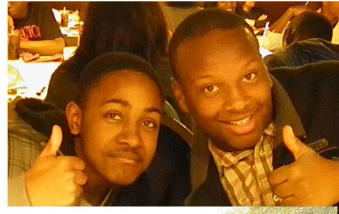
*Ann-Marie Buckley, PACE Senior*

*... from cover page*

LA ROCHE COLLEGE



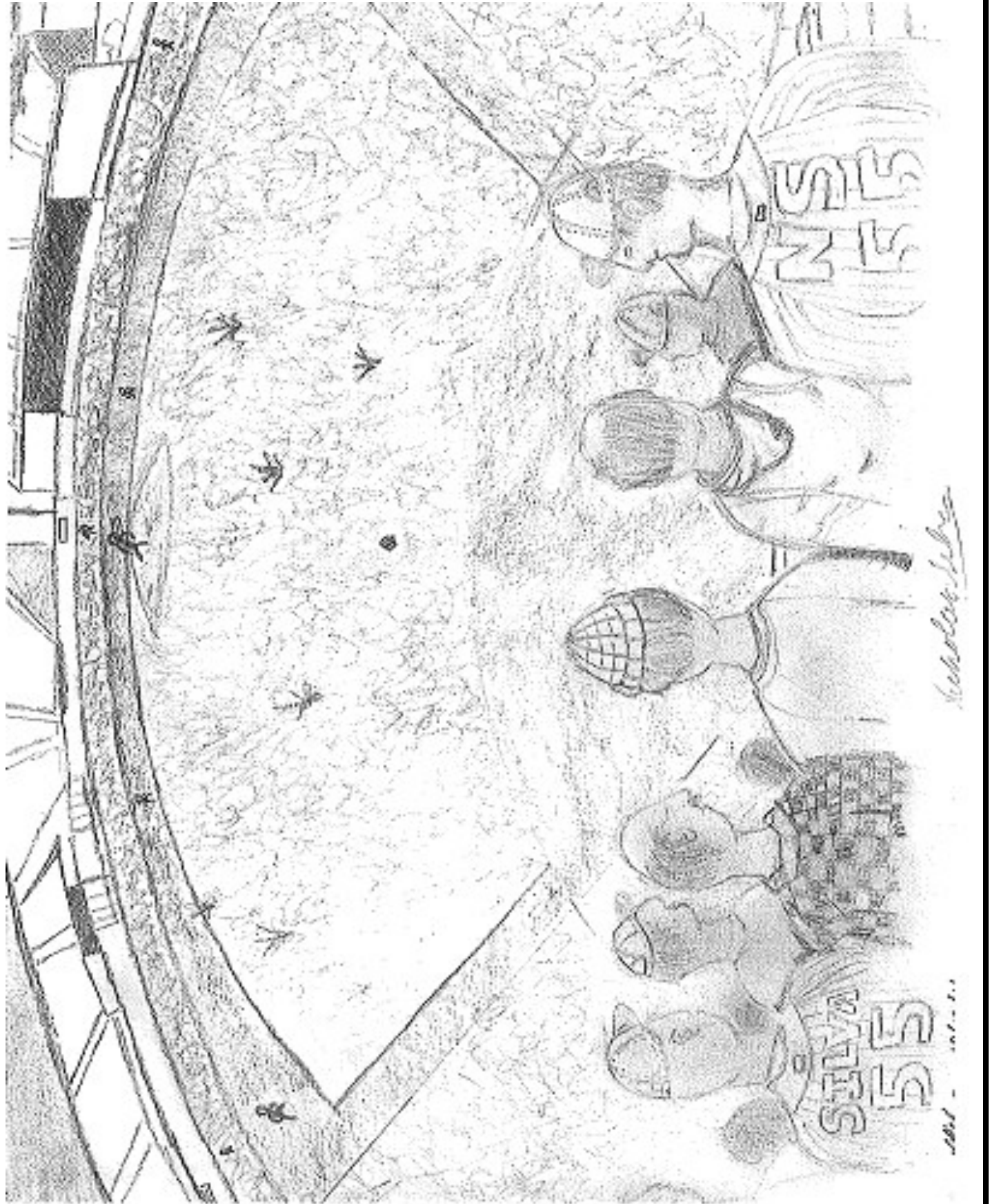
DUQUESNE UNIVERSITY



I Am Because We Are: A Celebration of Spiritans in Africa Gerard Tonti 2011



*PACE Baseball by Nicholas Silva, PACE Junior*



# Springtime Haiku



**The warmth of the sun**

**Calm, sublime noises of birds**

**Buds in tepid light**

**Nathanael Ganthier,**

**PACE Junior**

## ***“Working Hard While Having a Good Time”***

*Alexander Mirabal, PACE Senior*



# Student Eye-Opener 2012



February 11th, 2012

Presented by:

*Ayeshia Morris and Ann-Marie Buckley, Pace Seniors*

*“The Evolution of Music and  
Its Relation to African-Americans”*

## What Is Music?

An art of sound in time that expresses ideas and emotions in significant forms through the elements of rhythm, melody, harmony and color

**How has it changed over time?** Music has changed overtime and stayed the same in numerous ways. Before the internet bands from small towns probably could be found but now that there is the internet, musicians can post audio and videos on sites such as YouTube, MySpace and Facebook.

## Genres of African-American Music:

1. African Diaspora
2. Blues
3. Jazz
4. Gospel and Spiritual
5. Hip Hop
6. Rhythm and Blues/Soul
7. Rock and Afro Punk

## Music’s Influence on African-Americans during the Civil Rights Movement

- Supported them in Struggles
- Helped soothe their pain
- Challenged the status quo
- Set new styles and standards that became the source of succeeding music style
- Also became an avenue through which African-American could express opinions, display critiques and contention and share philosophy

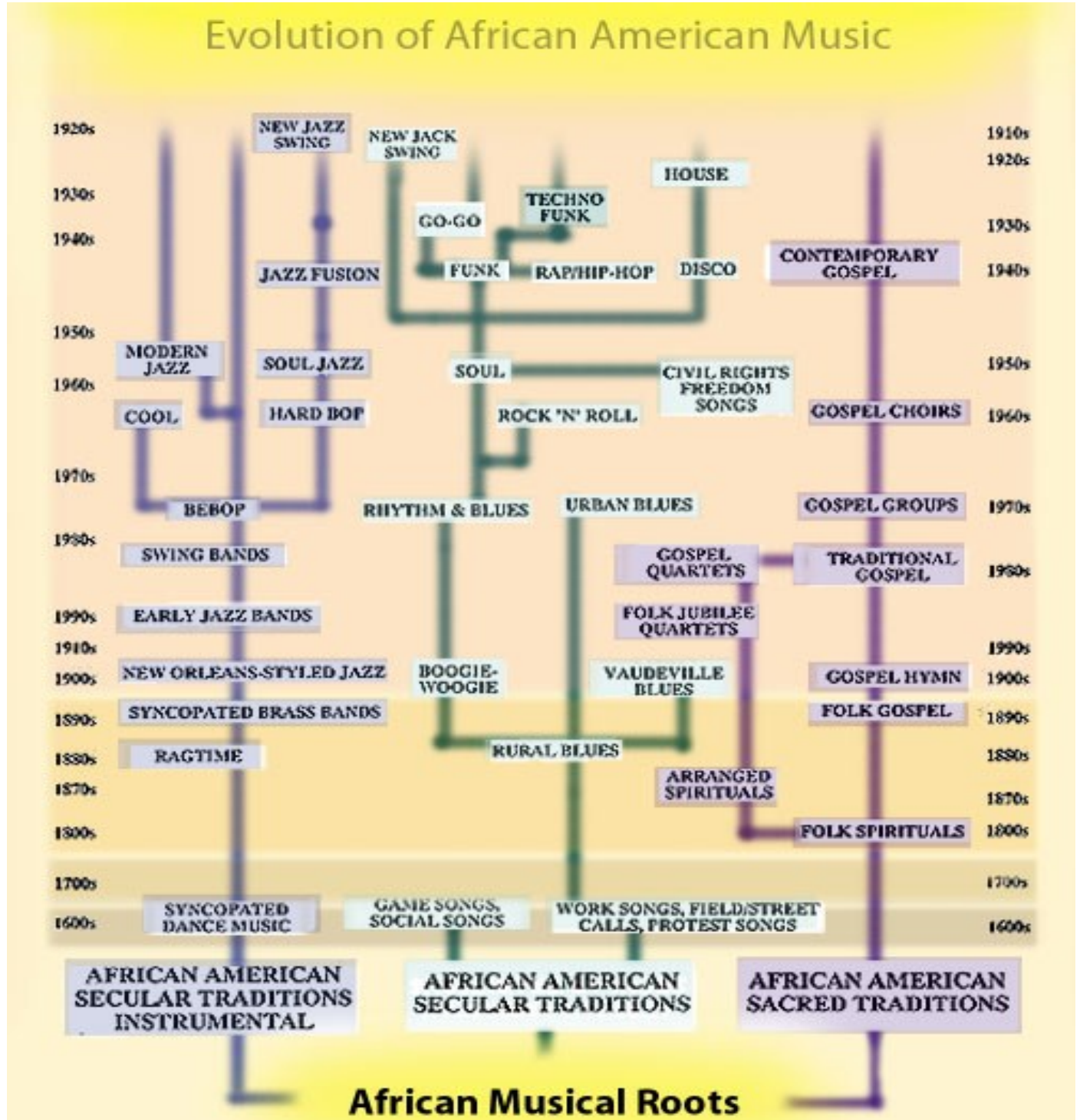
## “Music’s Influence on African-Americans in Today’s Society”

- People are influenced to act violent
- Be disrespectful
- In an inappropriate sexual behavior
- It promotes the development and maintenance of culture and social identity
- It bring us together—at concert through expression of feelings

continue on page 13 ...

## Conclusion:

- It affects your mind and body
- Music has been a part of our culture for hundreds of years
- Music is a great way to express yourself and should never be abused



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# The Engineering Trip 2012

## Spring 2012 PACE Engineering Trip

**O**n February 20, Presidents Day, PACE took an engineering trip to the AT&T GNOC (Global Network Operations Center) in Bedminster, NJ and the New York Hall of Science in Queens, NY. The trip was a fun experience for all of the PACE students, staff, and parents who attended. At the AT&T GNOC, we learned, among many things, the process of making and receiving a phone call. We also learned about the disaster crews that AT&T has set up to be deployed and make sure that when there is a catastrophe (such as Hurricane Katrina) you can count on AT&T's service to be there for you. After visiting and touring the GNOC, we had lunch in the AT&T cafeteria where we were treated with nice food made by their chefs. With our stomachs full, we boarded the bus and made our way to the Hall of Science in Queens.

**A**t the Hall of Science, where it was Engineer's Day, we had tons of fun! When we first entered the building, there was a huge gyroscope hanging from the ceiling. While travelling through the Hall of Science, there were many interesting and exciting exhibits that we were able to visit and experience. In one of the exhibits, there were many microscopes that showed images of living germs in them. Yuck! There was also an exhibit that involved lots of bubbles being made by a bubble machine. The exhibit demonstrated the science and mathematics of how bubbles take on their shape and how this can be used to solve real-life problems. There were lots and lots of hands-on activities at the Hall of Science. All and all, we had a great time while on this engineering trip. I especially loved the GNOC in Bedminster. Overall, it was a great time for all of the PACE students, staff and parents who participated in this event.

*Brandon Mirabal, PACE Sophomore*





# **PACE-Monmouth**

## *30th Anniversary Graduation and Awards Banquet*



### **Keynote Speaker**

**Dr. James Edward West**

**Research Professor at**

**Whiting School of Electrical & Computer Engineering**

**John Hopkins University**

**and Co-Inventor of the**

**Foil Electret Microphone**

**(used in nearly all telephones!!!)**

**Come celebrate our 2012 Graduates and listen to**

**Dr. West's electrifying message on**

**“COMMITTING TO EXCELLENCE”**

**- The Need for Diversity in Science, Technology, Engineering, and Mathematics -**

**Saturday, May 12, 2012**

**12:30 P.M. - 4:00 P.M.**

**Sheraton-Eatontown**

**(Exit 105 off the GSP)**

**6 Industrial Way East, Eatontown, NJ**

**Price:**

**\$40 Adults**

**\$25 H.S. Students**

**\$15 Children (4 - 12)**

**Purchase tickets by April 21<sup>st</sup>, 2012 contact**

**Pauline Anderson-Perry at 732-495-8830 or [simmi\\_danielle@juno.com](mailto:simmi_danielle@juno.com)**

# Understanding Languages can bring the World Closer Together

*Jarrett Walker, PACE Senior*

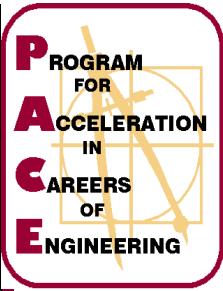
Though English is the dominant language spoken in the US, there are more than 300 other languages spoken in the US. There are so many different languages spoken in the US because the US has a rich history of attracting immigrants from numerous countries. Since I was a toddler, I have been excited about languages, and the excitement has grown over time. I remember vividly that one of my first toys was a computer which spoke in English and Japanese.

Now the global advancement of technology and language continuously occupy my thoughts and dreams because technology and language represent the best chance for a unified world that strives to constantly improve itself for the good of mankind. For example, advances in technology have already revolutionized the world's communication systems: anyone with a telephone can instantly speak with another person any time almost any place in the world.

Similarly, multilingual speakers hold the key to improving communications among the different groups of the world, particularly in some of the most volatile places in the world. Multilingual speakers like me welcome everyone across the globe without regard to religion, ethnicity, income, cuisine, race, ideology, or intellectual heritage. The only requirement is an intense interest in communication and a respect for the other person's native tongue.

I am also intensely interested in computer programming, Japanese animation, English, French and Japanese. In college, I plan to major in Computer Science and French. I plan to link technology and communication to improve the understanding of different cultures and to open new possibilities that eliminate language and cultural barriers. Imagine, for example, an inexpensive holographic phone that translates the language of the caller into the language of the person called and vice versa. This would mean that a person who only speaks English can call a person who only speaks Chinese and each would understand the other.

Hello - English    你好 - Chinese    こんにちは - Japanese    Hola - Spanish    Bonjour - French    Ahoj - Czech    Ciao - Italian  
Love - English    爱 - Chinese    愛 - Japanese    Amor - Spanish    Amour - French    Lásky - Czech    Amore - Italian



# 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](mailto:recruitment@pace-monmouth.org)

Or send inquires to:  
PACE Monmouth  
P.O. Box 493  
Lincroft, NJ 07738  
Attn: Staff Recruitment

## ***PACE IS . . .***

The PACE Is newsletter is a forum for disseminating news of interest to the PACE family and showcasing 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](mailto: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](http://www.pace-monmouth.org)**

## **Acknowledgments**

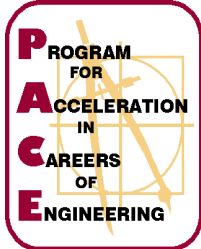
The following companies, organizations and individuals have made donations in the form of cash, goods or services in order to help make PACE-Monmouth a success. We appreciate each and every one of them for forming a partnership with PACE to help develop the technical skills and leadership potential of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

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