

■ **35<sup>th</sup> Annual National BDPA Technology Conference and Career Expo Convened in Washington, D.C.**

▶ Special Tech-Inclusion Programs Featured

■ **What's next for "BDPA" Campaigns?**  
= **Bling, Dominance, and Phat Apps**  
= **Big Data & Predicative Analytics**  
= **Billion-Dollar Programming Agency**

■ **Supercomputing: SC13**

■ **White House Initiatives on HBCUs**

# bdpatoday



36<sup>th</sup> Annual National BDPA  
Technology Conference  
and Career Expo

INDIANAPOLIS, IN

August 5-9, 2014



[www.bdpa.org](http://www.bdpa.org)

Pre-register  
by  
March 31, 2014

## HSCC Teams Tour HP Mobile Data Center at BDPA Tech Expo ▲



▲ Dr. Kyla McMullen, Clemson University (left) with Earl A. Pace Jr., National BDPA Co-Founder—advancing technical careers from America's classrooms to America's Boardrooms.  
*See "BDPA Mentors" on Page 9*

**Washington, DC**—HP, a National BDPA (NBDPA) Platinum Sponsor, showcased one of its mobile data centers during the 35<sup>th</sup> Annual Technology and Career Expo at the Washington Hilton, August 16-17, 2013 as part of National BDPA's week-long 35<sup>th</sup> anniversary technology conference and career outreach events. Above, student members from National BDPA's Twin Cities Chapter of Minnesota visit HP's mobile data center.

According to industry analysts, modern datacenters continue to evolve from distinct uses of separate computing, networking, security, and storage products to creating much more integrated solutions. This evolution is being driven by superior performance, manageability, and cost savings that is enabled by optimizing and leveraging the engineering of above listed components. [bt](#)

[Read more at bdpatoday.org](http://www.bdpatoday.org)

BDPA Members may download newsletters and press releases directly from [bdpa.org](http://www.bdpa.org).



John - Software Developer

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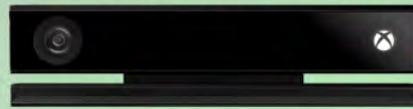
**FOUNDING PUBLISHER**  
Perry Carter



August 2013 **Monthly Mixer** powered by  
**The Microsoft Store** and **BDPA**, Wednesday,  
**August 28, 7pm - 9pm**, The Microsoft Store,  
Fashion Centre at Pentagon City, Arlington, VA.

### Topics:

**New! XBOX One & #BDPA13** Conference Overview



**Great Door Prizes!**  
RSVP: [bdpadc.org](http://bdpadc.org)



**BDPA**

Everything you want to know about **XBOX One**  
and need to ask. Release Date: **November 2013**

BDPA, formerly known as *Black Data Processing Associates*, was founded in 1975 to promote professional growth and technical development to those in or entering information and communications technology (ICT) career fields and related industries. In its 38<sup>th</sup> year (*Volume 38*) National BDPA (NBDPA) Chapters publish quarterly or monthly newsletters. For newsletter or web portal advertising rates, publication schedules, online calendars, and e-newsletters, contact regional or local BDPA Chapters by visiting [www.bdpa.org](http://www.bdpa.org) or by calling **301.584.3135** **bdpatoday** (**ISSN 1946-1429**) is published by participating Local Chapters of NBDPA with their respective chapter Communications Committees, mailed to BDPA members, BDPA corporate sponsors and electronically delivered to BDPA Chapters and Chapter Interest Groups (CIGs) as a benefit of membership. First Class and Periodicals postage paid at Washington, D.C. and additional regional mailing offices. Unless otherwise noted by own copyright, art and graphics ©NBDPA, ©BDPA-DC, ©Corbis, ©Getty Images, © ITSMF and ©JupiterImages™. Conference photos © National BDPA; credits: Charlie Perkins. Cover graphics, photos and logos: National BDPA, BDPA-DC, and **bdpatoday**. **bdpatoday** is available for online publishing of ICT industry, chapter news, and community IT, Cyber, and STEM events. Forward advertisements, articles, calendar of events, or images with captions and credits to: [info@bdpatoday.org](mailto:info@bdpatoday.org). Readers may use NBDPA Groupsite calendars, enhanced by [Groupsite.com](http://Groupsite.com) to review local events or visit [www.bdpatoday.org](http://www.bdpatoday.org). An advertisement, announcement, OP-EDs, tweets, re-tweets, or following NBDPA on social media does not constitute an endorsement. Contributor opinions are not necessarily those of neither National BDPA nor local BDPA Chapters. [www.bdpatoday.org](http://www.bdpatoday.org)





Southern Minnesota Team Wins 2013 High School Computer Competition (HSCC) Championship.

BDPA © 2013 | Photo credit: Charlie Perkins

Visit [bdpa.org](http://bdpa.org) for National BDPA Technology Conference winners from participating BDPA Chapters

## 7 BIG DATA

### Challenges and Opportunities

Highlights include:

- Internal Data
- External Data Sources
- Unstructured Data (sensors, audio, video)
- Big Data and [Predictive] Analytics (BDPA)

**Twitter** hash-tags: [#TechandMedia](#) [#SmallBiz](#) [#BigData](#) [#BDPA13](#) and [#BDPA14](#)

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# Big Data Challenges and Opportunities

## Harnessing Big Data

**FALLS CHURCH, VA**—Data is an organization's lifeblood. Without it, an organization can't function. But data is expanding faster than ever and now we're facing big data challenges too: not just large volumes, but data that changes rapidly, comes in more varieties and from more sources. Structured, internal data is increasingly being supplemented by unstructured data like audio, video and sensors, and data from external sources like the internet, social media and third parties.

The big data opportunities for gaining valuable new insights by blending and analyzing the multiple datasets is enormous; at the same time, the challenges of big data are to store, protect and handle data appropriately, to prevent it from becoming a liability. With big data opportunities come big data challenges.

How organizations find and use data as an asset is changing dramatically. A data-driven economy is emerging, and organizations are beginning to understand and explore the big data opportunities. With so much data becoming available the challenge is harnessing big data in new ways and maximizing the business value it can deliver.

Until recently, it wasn't possible to interrogate unstructured data, like email and conversations, in conjunction with structured data, such as spreadsheets and databases. But now it's becoming easier to combine and analyze vast, rapidly changing datasets, using new technologies and techniques that can mine it in more meaningful ways than before.

The prospect of gaining fresh insights from the new datasets is exciting: if you could generate actionable intelligence, that's delivered to the right people at the right time, your organization could acquire an important competitive edge and even transform the business. But where do you start, when there is simply so much data that's changing and growing all the time?

## Big Data Challenges & Opportunities: Harnessing Big Data

The onset of big data introduces a world of opportunities to harness big data as an asset. Finding new insights by blending and analyzing internal and external data transforms data into a valuable asset for your organization. For example, if an analysis enables the prediction of which customers might defect to a competitor, actions can be taken to prevent that from happening.

Suppose a mobile phone company's customer posts on their social networking site that they've switched to another provider and have a great new handset and call plan. That could persuade others to switch to that provider as well. If the phone company can see who those friends are and match them to its customer records they can quickly take action with an attractive offer to retain the valuable customers before it's too late.

On the other hand, big data challenges can be a liability if data is not stored appropriately or worse if your data gets accidentally or maliciously shared with the competition.

## Why Is Data so Often an Under-Utilized Asset?

We all understand the value of data, in a theoretical way at least. So why don't we exploit it to the fullest? One of the most common challenges of big data is the quality of the data. If an organization's data is variable, inconsistent or incomplete, the insight it could yield becomes suspect, and the

See **Big Data** on **Page 9**

A weather vane is positioned on the right side of the page, pointing towards the top right. It features a central vertical pole with four arms extending horizontally, each ending in a directional arrow. The letters 'N', 'E', 'S', and 'W' are attached to the ends of these arms, respectively. The background is a clear blue sky with some light clouds.

# DOING BUSINESS IN THE CLOUD WHERE TO START?

Most large organizations can benefit from selective use of the cloud. But where to start? As the world's leading independent information technology services company, we can help you reach the right decisions to make the shift to cloud computing successful. [CSC.COM/CLOUD](https://www.csc.com/cloud)

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## Our New 'Everything as a Service' (EaaS) Economy

**Big Data** from **Page 7**

organization might not want to risk acting on it.

Even if there's nothing wrong with the quality of the data, an organization might not have the right tools to analyze the content in a meaningful way; or might not be able to deliver the data in a timely manner to the right person. In addition, combining your own data with external sources will increase the potential for fresh insight. [!\[\]\(c3d993ca47bfe2a953c700506ce31fa0\_img.jpg\)](#)

Excerpts for this article were provided to *bdpatoday* by CSC. 

## BDPA Mentors



Photo credit: Clemson University

**BDPA Greater Columbia, SC**—Of the 56 African-American computer science professors nationwide, a full 10 percent are clustered in one place: Clemson University. Clemson boasts six African-American tenure-track or tenured professors. Its doctoral students account for 10 percent of African-American computer science Ph.D. candidates. BDPA member Dr. Juan Gilbert (above, second from left) is a mentor.

Dr. Kyla McMullen (cover photo), the first African American woman to graduate with a PhD in computer sciences at University of Michigan, joined Dr. Gilbert this year and was one of Clemson University's representatives attending the 35<sup>th</sup> Annual National BDPA Technology Conference and Career Expo. [!\[\]\(cf531ed27e91483460120fcc057b3901\_img.jpg\)](#)

Get the latest from Juan E. Gilbert, PhD on **Twitter** by following ([@DrJuanGilbert](https://twitter.com/DrJuanGilbert)). He is a Presidential Endowed Professor and Chair, Division of Human-Centered Computing at Clemson University.





## Technology Inclusion & Outreach

### White House Initiatives May Outline What's Next for BDPA


**PENTAGON CITY, VA**—For over 35 years, local BDPA Chapters from Boston to Los Angeles have collaborated with sponsors, stakeholders, and community leaders to provide technical workforce development programs and professional development workshops for underserved communities. Leading up to this year's national conference last quarter, SiriusXM Satellite Radio hosted the Chapter's 35<sup>th</sup> Anniversary Kick-Off Mixer and Reception. This past June, BDPA NoVA and BDPA DC Members (above) participated in a National Small Business Week mixer at *The Microsoft Store* and co-hosted an Open House with an Advance Program Briefing for Interns (APBi) at Bowie State University during Father's Day weekend.



BDPA © 2013 | Photo credit: Charlie Perkins

Perry Carter, Host Chapter President, provides welcoming remarks to students, members, sponsors, and local officials during Opening Ceremonies.

BDPA Members are encouraged and invited to partner with national sponsors and co-host **Tech-Inclusion** events with BDPA Chapter Program Committees – for students, for businesses, and for local communities. ICT Industry sponsors, government agencies, and non-profit organizations (NPOs) in the National Capital Region such as *The Microsoft Store*, the United States Navy, SiriusXM Satellite Radio, Best Buy, FireEye, Splunk, Groupsite.com, Joint Educational Facilities (JEF), and the Patriots Technology Training Center (PTTC), also partner with local BDPA chapters to jointly create custom outreach programs, host industry events, and provide economic development and teaming opportunities. To this end, BDPA Chapters meet industry's talent acquisition requests while broadening BDPA Member career paths.

Visit [bdpatoday.org](http://bdpatoday.org) to discover new events this quarter with local BDPA Chapters, visit *The Microsoft Store* near you, or return to a nearby campus to support our favorite **#TechInclusion** or **#TechandMedia** programs. Join today, and follow BDPA's Social Media channels. 



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▲ (Left photo) National BDPA's *Epsilon Award* winners for 2013 showcase individual awards during the annual Founders' Reception hosted by National BDPA Co-Founder Earl A. Pace, Jr. (Right photo) National BDPA's High School Computer Competition (HSCC) finalists from Detroit win scholarships from Platinum Sponsor, Johnson & Johnson. – Photo credits: Charlie Perkins | BDPA © 2013

## 2013 BDPA Individual Epsilon Awards

**WASHINGTON**—National BDPA annually selects and awards the BDPA Epsilon Award to recognize and celebrate key contributions and accomplishments of its members. Nominations are accepted across five categories and are evaluated by a team of National BDPA members in accordance with descriptions outlined below.

**Career Achievement** – Highly experienced professionals who have significant career accomplishments and/or contributions throughout their career

**Community Service** – Individuals who have demonstrated, by meaningful results, strong partnership and collaboration with entities in the communities they reside

**Most Promising Technologist** – Individuals who have been recognized as future technology leaders based on their drive, commitment and results thus far in their careers

**Outstanding Technical Contribution** – Individuals who have pioneered new or leveraged existing technology to solve a critical business or technical problem

**Professional Achievement** – Individuals who have reached or realized a significant milestone in their career, corporate or otherwise, that is noteworthy

## Team Dominance – BDPA's Southern Minnesota Students Regain HSCC Title

**WASHINGTON**—National BDPA's High School Computer Competition (HSCC) Student Members on BDPA's Southern Minnesota HSCC team won scholarships from Johnson & Johnson and HP Envy Tablet PCs from HP, National BDPA Platinum Sponsors, upon capturing first place during National BDPA High School Computer Competition (HSCC) scholarship rounds. This is the team's seventh HSCC title in nine years.

Rounding out this year's top five are HSCC Teams from ***BDPA Los Angeles (BDPA-LA)***, ***BDPA Atlanta***, ***BDPA Washington, D.C. (BDPA-DC)***, and ***BDPA Cincinnati***.

The Student Information Technology Education and Scholarship (SITES) program is designed to introduce K-12 students and under-served communities to the field of Information Technology through hands-on training. National BDPA encourages these students to seek higher levels of education by providing incentives through scholarships. Many of these young people have shared with us how important it is for them to be groomed by NBDPA toward becoming our next generation of IT professionals.

BDPA has grown these programs since inception in 1986 by Dr. Jesse Bemley. There were over 600 students from 46 local BDPA chapters who began this year with hopes of winning the 2013 NBDPA HSCC championship. Only 17 teams made it to the National HSCC Championship Round. **it**



See **Leader Board** on **Page 14**





Walmart hires Science, Technology,  
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A photograph of four business professionals in a meeting. A man in a dark suit and purple tie stands in the center, leaning over a large wooden conference table. Three other people (two women and one man) are seated around the table, looking at documents. They are all smiling and appear to be in a collaborative work environment.

[Walmart.com/ITCareers](http://Walmart.com/ITCareers)


# BDPA CONFERENCE NEWS & INDUSTRY EVENTS



**Backgrounder** | [About NBDPA](#)

**Leader Board** from [Page 12](#)

Founded in 1975, National BDPA (formerly, *Black Data Processing Associates*) is an internationally recognized organization of IT professionals whose goals include preparing young people who are interested in becoming the next generation of 'Information Technology Thought Leaders' in academia and corporate America. The regional and national HSCC championships are part of the BDPA science, technology, engineering and mathematics (STEM) pipeline summarized in its motto, 'From the Classroom to the Boardroom'.

At the national level, NBDPA hosts computer competitions at annual conferences and each chapter is invited to bring a five-member team to compete. Winners at the national level are rewarded with scholarships and sponsor-donated items, up to and including desktop or notebook computers. 

This year, National BDPA is pleased to honor the following 24 individuals with Epsilon Awards:

1. **Dr. Reginald Brothers**, *Department of Defense*, Professional Development
2. **Dr. Craig Brown**, *Nexeo Solutions*, Community Service
3. **Eugene Cook**, *Wal-Mart*, Outstanding Technical Contribution
4. **Victoria Cotton**, *American Airlines*, Outstanding Technical Contribution
5. **Adrian Crews**, *Wells Fargo*, Community Service
6. **Dr. Shaundra B. Daily**, *Clemson University*, Most Promising Technologist
7. **Norman Fleming**, *MillerCoors*, Professional Development
8. **Karamu Ford**, *American Airlines*, Career Achievement
9. **Zack Garbow**, *Funeral Innovations*, Most Promising Technologist
10. **Victor Gavin**, *US Navy*, Career Achievement
11. **David Hopkins**, *American Airlines*, Career Achievement
12. **Maria Hutsell**, *Wells Fargo*, Career Achievement
13. **Dr. Tayo Ibikunle**, *JPMorgan Chase*, Career Achievement
14. **Kimberly Jackson**, *American Airlines*, Professional Development
15. **Cedric Jamison**, *American Airlines*, Community Service
16. **Ted Jordan**, *Funutation Tekademy*, Professional Development
17. **Dr. Kyla A. McMullen**, *Clemson University*, Professional Development
18. **Anthony Reed**, *Reed CPA PC*, Community Service
19. **Subrena Robinson**, *State Farm Insurance*
20. **Justin Simpson**, *Wal-Mart*, Most Promising Technologist
21. **Decarlas Smith**, *American Airlines*, Most Promising Technologist
22. **Stacy Stewart**, *Health Care Service Corporation*, Community Service
23. **J. Darrel Thomas**, *HP*, Outstanding Technical Contribution
24. **Patrice Yapo**, *American Airlines*, Outstanding Technical Contribution

Source: [bdpa.org](#)







# BDPA CHAPTER NEWS & INDUSTRY EVENTS

Backgrounder | About BETF



BDPA Education and Technology Foundation (BETF or BDPA Foundation) is a 501(c)(3) non-profit charity, founded in 1992 to support the education and technical programs of BDPA, now formerly known as Black Data Processing Associates.

BETF recognizes that to close the gap of computer and technology literacy, minority youth must participate and compete in today's digital economy. The BDPA Foundation wants students from historically disadvantaged communities and HBCU/MIs to learn advanced computer science and community responsibility from any of the BDPA chapters located around the nation or forming abroad.

Recently, the BDPA Foundation created an Endowment fund with the intent of increasing the number and size of the scholarships awarded these students. The scholarships target our young people seeking a degree in Information Technology or related discipline at accredited colleges or universities. [bt](#)

Source: [betf.org](http://betf.org)

## HBCU Initiatives

On September 24-25, 2013, The White House Initiative on Historically Black Colleges and Universities (HBCUs) will host its annual two-day national conference commemorating National HBCU Week and highlighting the significant contributions which HBCUs have made to the nation.



Photo: © [bdpatoday](http://bdpatoday)

Regional executives were panelists during the 2011 annual Spring Advance Program Briefing to Industry (APBI) at Bowie State University. Panelists supporting industry forecasts and BDPA's CNCI, OPSEC, Cyber, and CS-STEM outreach programs were (l-r): Captain Daniel Lakhani, **U.S. Marine Corps**; Rear Admiral Michelle Howard, **U.S. Navy** and 2011 BDPA Regional Conference Keynote Speaker; Lisa Harbour-Carter (seated), **Comcast**; and Keith Scott (standing), Federal Defense/Intel Account Executive for **FireEye**.

Mentors and Volunteers. Join or renew memberships with a local BDPA Chapters.



Sign Up. Show Up. Step Up.



[www.bdpa.org](http://www.bdpa.org)

# CAREER NEWS & EVENTS



@bdpatoday | Hash Tags: #ITJobs #Careers #Internships #BDPA


**Chicago, IL**—National BDPA’s **ITDiversityCareers** is an excellent job resource connecting IT professionals with employers. Job seekers can search nationwide for technology careers in many sectors. NBDPA is recognized as the premier organization for African American information technology professionals. Corporate Sponsors ranging from entrepreneurial start-ups to 'Fortune 100' corporations regularly post **job opportunities** and have access to a resume database of diverse technical talent. The number of job postings and resumes continue to grow.



NBDPA’s updated site is user friendly with new registrations being quick and easy. Even the most passive job seeker may have an exciting job meeting their search criteria created by *My Job Search Agents*, then conveniently e-mailed to them or sent via RSS feed. The same person can “anonymously” post resumes and Recruiters can easily find them while sourcing resumes.

More active job seekers may want to utilize tools available to stay organized by tracking saved jobs and their job application history. The candidate dashboard is simple to navigate. There is even a function to add a photo to your profile if you wish!

Employers and IT professionals are successfully connecting and collaborating using **ITDiversityCareers**. It is a benefit of **BDPA Membership** shared with all technology professionals across all STEM domains. Login to create new accounts today. Collaborate directly with ICT industry executives and BDPA Members via [bdpa.org](http://bdpa.org).

*Portia Westbrooks, BDPA-Chicago, contributed to this article. She and members of other National BDPA Chapters are expected to attend next year’s National IT Career Fair when it returns to Washington, D.C. In addition to being a BDPA Member, Portia is a recruiting and diversity consultant. You may follow Portia on Twitter: @IT\_Head\_Hunter1 *

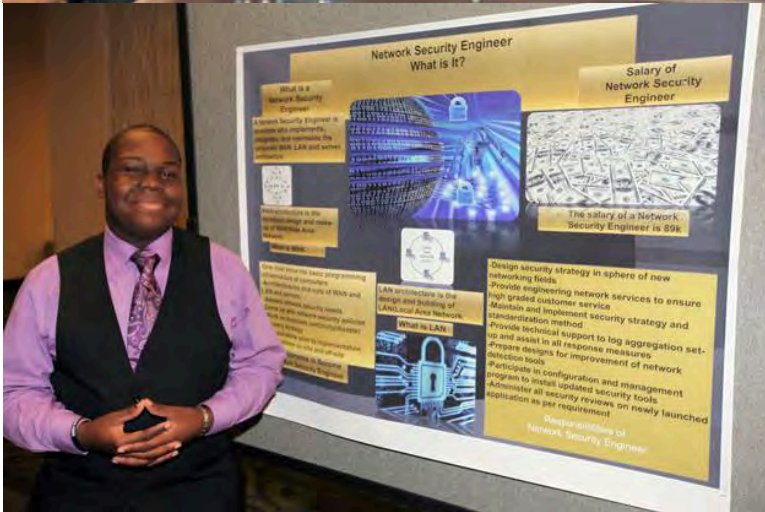


Information Technology Careers for Diverse Professionals





◀ **2013 National BDPA #YTC**  
**Youth Technology Camps & Workshops**  
Wednesday, August 14



◀ **2013 National BDPA #ITSC**  
**IT Showcase | College Module**  
**IT Showcase | High School Module**  
Thursday, August 15

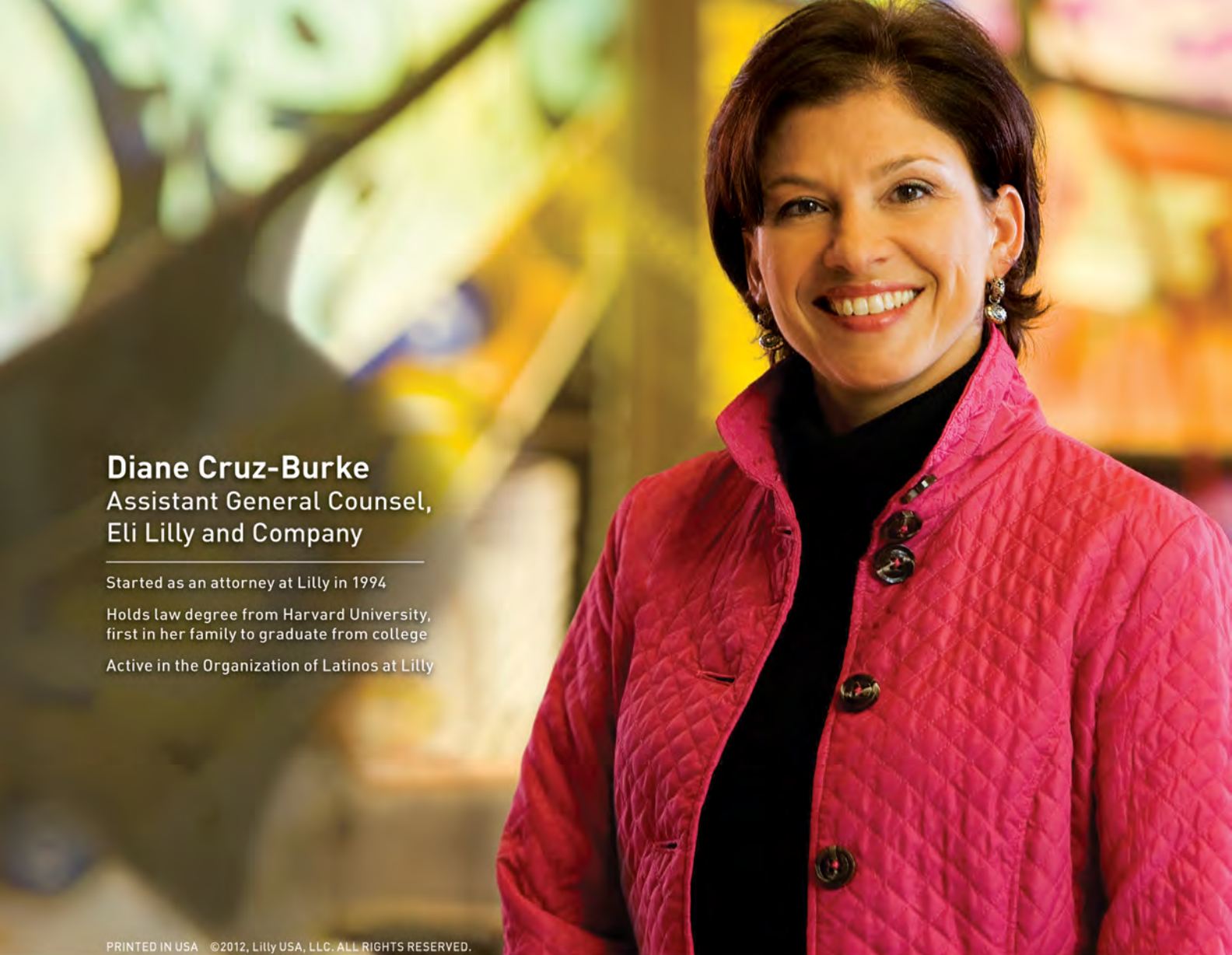


◀ **2013 National BDPA #HSCC**  
**High School Computer Competition**  
Thursday, August 15

BDPA © 2013 | photos by Charlie Perkins



Not a Member? Visit [www.bdpa.org](http://www.bdpa.org) to join or renew.



**Diane Cruz-Burke**  
Assistant General Counsel,  
Eli Lilly and Company

Started as an attorney at Lilly in 1994

Holds law degree from Harvard University,  
first in her family to graduate from college

Active in the Organization of Latinos at Lilly

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## Part of my fabric.

Both of my parents come from large families that migrated to the mainland U.S. from Puerto Rico when they were very young. They watched their parents struggle and never get ahead. But, they were determined that one day their own children could realize a better future.

Growing up in a close, extended family exposed me to a variety of challenges. We depended on one another, and for me that meant taking on huge responsibilities, even at a young age. At times, this

could be emotionally draining, but it taught me how strong I really was. With the support of my family, I learned that problems are really opportunities to reshape the things we're not happy with. Anything is possible with persistence and focus.

This is an important part of my fabric. It's what makes me passionate about life and our mission to affect improved patient outcomes. Just as I have personally overcome challenges, I hope to use these experiences to positively impact the lives of others.

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## BDPA and Local ICT Industry Events

### Information & Communications Technology (ICT)

#### ► 35<sup>th</sup> Annual National BDPA Technology Conference

August 13-17, 2013 ► **July 31, 2013** for Rooms & Pre-Registration  
 Washington, DC | Host Chapters: **BDPA-DC/BDPA NoVA**

#### ► White House Initiative on Historically Black Colleges and Universities (HBCUs)

September 26-27, 2013 ► **August 31, 2013** for Pre-Registration  
 Visit: <http://www.ed.gov/edblogs/whhbcu/>  
 Washington, D.C. | Host Chapter(s): **BDPA DC/BDPA NoVA**

#### ► National Cyber Security Awareness Month 2013

October 1-31, 2013 ► **Plan Now** | Resource kits available  
 Visit: <https://wiki.internet2.edu>  
 U.S. | Host Chapter(s): **Participating BDPA Chapters**

#### ► 18<sup>th</sup> Annual Women of Color STEM Conference

October 17-19, 2013 ► **September 2013** for Rooms & Pre-Registration  
 Dallas, TX | Host Chapter: **BDPA Dallas**

#### ► LISTA's Silicon Valley Emerging Technology Leadership Summit & National Latino Tech Awards Gala

December 5-6, 2013  
 Redwood, CA | Host Chapter: **BDPA Bay Area**



## 35<sup>th</sup> Annual National BDPA Technology Conference & Career Expo

AN ICT INDUSTRY EVENT | Washington, DC • AUG 13-17, 2013

**Washington, D.C.**—This year's National BDPA Technology Conference Host Chapters are Washington (BDPA-DC) and Northern Virginia (BDPA NoVA.) Members, Professionals, and Students attending this year's career fair soon will discover top employers from our Information and Communications Technology (ICT) industry's high growth market segments. Attendees are afforded the opportunity to take full advantage of National BDPA's resources designed to enhance relationship building with hiring managers from corporate sponsors. Moreover, senior IT and cybersecurity career opportunities with national job searches are provided to enhance professional and academic IT careers.

BDPA Sponsors and Exhibitors will leverage opportunities to enhance their visibility across STEM, ICT, Cloud, Big Data, and Cybersecurity special interest groups (SIGs) to identify and recruit new hires directly from top talent pools available within the National Capital Region.

Our National High School Computer Competition (HSCC) and collegiate IT Showcase (ITSC) programs also provide opportunities for industry and academia to directly connect with students from local BDPA chapters, including qualified HSCC and ITSC student pipelines, to close digital divides and develop tomorrow's IT workforce. Whether you are in the job market or not, don't miss National BDPA's 36<sup>th</sup> Annual Technology Conference, Career Expo, reunions, and anniversary events in Washington this month!

*Source: [bdpa.org](http://bdpa.org)*



# Seattle, Washington

## February 5-8, 2014

### BDPA Northwest Region

## Save the Date: **2014 ACM Richard Tapia Celebration of Diversity in Computing**

Richard Tapia is a mathematician and professor in the Department of Computational and Applied Mathematics at Rice University in Houston, Texas. He is internationally known for his research in the computational and mathematical sciences and is a national leader in education and outreach. Tapia's current Rice positions are University Professor (only the sixth individual afforded this title in the 100-year history of Rice University), Maxfield-Oshman Professor in Engineering, Associate Director of Graduate Studies, and Director of the Center for Excellence and Equity in Education.

Tapia was born in Los Angeles to parents who separately emigrated from Mexico as young teenagers in search of educational opportunities for themselves and for future generations. The first in his family to attend college, Tapia went on to receive B.A., M.A. and Ph.D. degrees in mathematics from the University of California, Los Angeles. In 1967 he joined the Department of Mathematics at UCLA and then spent two years on the faculty at the University of Wisconsin. In 1970 he moved to Rice University where he was promoted to associate professor in 1972 and full professor in 1976. He chaired the department from 1978-1983. He is currently an adjunct faculty member of both Baylor College of Medicine and the University of Houston. Tapia has authored or co-authored two books and more than 100 mathematical research papers.

While at Rice, Tapia has directed or co-directed more underrepresented minority and women doctoral recipients in science and engineering than anyone in the country, and has led several programs that have brought recognition to the university's commitment to diversity. Since 1996, 60 underrepresented minority students have received Ph.D.s in science and engineering at Rice University. Tapia directs programs that are supported by the Alfred P. Sloan Foundation, the National Science Foundation, and other organizations that are designed to increase the number of underrepresented minorities obtaining graduate degrees in science, technology, engineering and mathematics and enhance the preparation of underrepresented minorities for faculty positions in academia. At Rice, the NSF-supported Alliances for Graduate

Education in the Professoriate has developed a supportive community of students and faculty members that gives advice on admissions to departments and provides students with formal and informal resources, support, and professional development. Professor Tapia is recognized as a national leader in diversity and has delivered numerous invited addresses at national and international mathematics conferences, served on university diversity committees, and provided leadership at a national level. Two professional conferences have been named in his honor, recognizing his contributions to diversity: Richard Tapia Celebration of Diversity in Computing conference and the Blackwell-Tapia Conference, whose founders described Tapia as a seminal figure who inspired a generation of African-American, Native American and Latino/Latina students to pursue careers in mathematics.

### 2014 Sponsors


#### National Science Foundation

The National Science Foundation (NSF) is an independent federal agency created by Congress on 1950 "to promote the progress of science; to advance the national health, prosperity, and welfare; to secure the national defense..." The funding from NSF for Tapia 2013 was made possible by a grant, CNS 1050330, from the CISE Directorate.

#### Beyond Broader Engagement

The Beyond Broader Engagement at SC is funded by the NSF Broadening Participation in Computing program within the CISE directorate. Led by Dr. Raquell Holmes, the effort looks to engage participants of the Broader Engagement program with other efforts in BPC as well as to invite participants of other BPCs to utilize the SC broader Engagement program.

#### XSEDE (Formerly TeraGrid)

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**Atlanta, GA**—The annual XSEDE conference brings together the extended community of individuals interested in advancing research cyberinfrastructure and integrated digital services for the benefit of science and society. XSEDE14 will place a special emphasis on recruiting and engaging under-represented minorities, women, and students as well as encouraging participation by people from domains of study that do not traditionally use high-performance computing.



*IT Showcase* | BDPA photo © 2012

Sessions will be structured to engage people who are new to computational science and engineering, as well as providing in-depth tutorials and high-quality peer-reviewed papers that will allow the most experienced researchers to gain new insights and knowledge. 

Sources: XSEDE and SC13



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Organization/Agency	STEM Focus	Projected Deadlines	*Established BDPA Relationships
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Army Corps of Engineers	Most STEM majors	Winter 2013	BDPA Baltimore, BDPA Huntsville
U.S. Coast Guard	All Majors	<b>September 2013</b>	NBDPA CONUS, USCGA, OCS, or CSPI
CSC	Computer Science, STEM-IC (Intelligence & Cyber), C5ISR, able to obtain security clearances	Fall 2013/Winter 2014	BDPA Cincinnati, BDPA-DC, BDPA Northern Virginia, BDPA Hartford
Freddie Mac	Finance & Accounting, Instructional Design, HR	April 2014	BDPA-DC, BDPA Northern Virginia – Grad Student members with 3.3 GPA or higher
HBCU/MI Project Office	CS-STEM or STEM-IC; able to obtain security clearances	Fall, Spring, & Summer	BDPA Atlanta, BDPA-DC, BDPA Houston, BDPA Huntsville
<b>HCSC**</b>	Associate Intern(s)	March 2014	<b>National BDPA Platinum Sponsor</b> Illinois, Oklahoma, New Mexico & Texas
<b>HP**</b>	CS-STEM	Winter 2013	<b>National BDPA Platinum Sponsor</b> BDPA-DC, BDPA NoVA with 3.2 GPA
IBM	CS-STEM   “Extreme Blue”	Fall, Spring, & Summer	BDPA-DC, BDPA Greater Columbia, BDPA Southern Minnesota, BDPA Triangle (RTP)
<b>Johnson &amp; Johnson**</b>	All Majors	Winter/Spring 2014	<b>National BDPA Platinum Sponsor</b> Speak with J&J reps at Regional Events
Northrop Grumman	C4ISR, Engineering, Health IT, Manufacturing, STEM-IC	Fall, Spring, & Summer	BDPA-DC & BDPA Northern Virginia; Interns must have strong GPAs
Department of the Navy	All Majors	Fall 2013	NBDPA CONUS or NROTC
Raytheon	C4ISR, STEM-IC, Systems Engineering, Communications	Fall, Spring, & Summer	BDPA Huntsville, BDPA-LA, BDPA Mass-Metro West (Boston)
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TASC	Analytical, Computer Science, STEM-IC	Spring 2014	BDPA-DC & BDPA Northern Virginia

**\*\*BOLD** text indicates National BDPA Platinum Sponsors now accepting BDPA Student applications with strong GPAs and updated resumes. NBDPA **HSCC and IT Showcase** Student Members and Alumni are encouraged to apply each semester.



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