Superstorm Sandy

Less Certain
Long-Term

Bermuda

Model Western
Edge

Model Eastern
Edge

Certain
Short-Term

BDPA

35th Annual National BDPA
Technology Conference
and Career Expo

WASHINGTON, D.C.

August 14-17, 2013

2013 NATIONAL BDPA TECHNOLOGY CONFERENCE
Washington DC - Hilton

BDPA

www.bdpa.org

Pre-register and reserve
rooms by December 15, 2012

NBDPA SPECIAL REPORT

Featured Site
READY.gov
What to do before, during, and after an emergency

Washington, DC—Launched in February 2003, *Ready* is a national public service advertising (PSA) campaign designed to educate and empower Americans to prepare for and respond to emergencies including natural and man-made disasters. The goal of the campaign is to get the public involved and ultimately to increase the level of basic preparedness across the nation.

Ready and its Spanish language version *Listo* ask individuals to do three key things: (1) build an emergency supply kit, (2) make a family emergency plan and (3) be informed about the different types of emergencies that could occur and their appropriate responses.

5th anniversary bdpatoday

Readiness Win Themes: Pledge to Prepare.

Theme 1: Be informed
Know what to do before, during, and after emergencies

Theme 2: Make a plan
Prepare, plan, communicate, stay connected and informed

Theme 3: Build a kit
Build a disaster supply kit to be prepared

Theme 4: Get involved
Through local **BDPA Chapters**, find opportunities to support community awareness, outreach, preparedness, continuity of operations, and local disaster recovery initiatives

Theme 5: Business
Continuity of operations (COOP;) plan for and protect your business.

Theme 6: Kids & Pets
Plan for fun and games with the kids and pets

New Challenges
Call for New Leaders

itsmf **INFORMATION TECHNOLOGY SENIOR MANAGEMENT FORUM**
Fostering the career growth of African-American executives

November 8 – 10, 2012   Orlando, FL

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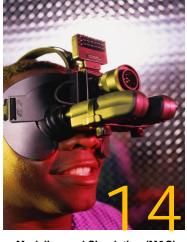
For Event Registration and Hotel Information
Visit: itsmfonline.org

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2013 NATIONAL BDPA TECHNOLOGY CONFERENCE
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7 Opp Centers Yield Accurate Forecasts

14 Modeling and Simulation (M&S)

23 POTUS: Commander In Chief with emergency and disaster relief staff

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2013 Conference Call

By virtue of the authority vested in me as National President of NBDPA and in accordance with the mandates of Article IX, Section 3 of the National By-Laws of the NBDPA; it is my distinct pleasure to announce the call for assembly of the 2013 Annual Delegates Meeting and anniversary celebrating our 35th National BDPA Technology Conference.

Our site for next year's National BDPA Technology Conference shall be Washington, D.C.—with BDPA's Washington, D.C. Chapter serving as our distinguished Host in honor of their 35th Anniversary. The Hilton Washington is the official headquarters hotel for our assembly, 35th Anniversary Events, Career Fair, Technology Expo, National High School Computer Competition (HSCC) scholarship round, National IT Showcase (ITSC) scholarship round, Youth Technology Conference (YTC,) and annual Golf Classic.

Said National BDPA Technology Conference shall take place during the time period August 13th through August 17th, 2013—with our formal Banquet and Gala on the evening of August 17th. The President of the United States will formally be invited as our distinguished guest of honor and keynote speaker.

All BDPA Chapters, BDPA members, corporate sponsors, agencies, and stakeholders are hereby notified of the time and place for your 2013 National BDPA Technology Conference and Career Fair. Take full advantage of your annual memberships, discounts, and color sponsorships made available to your organization in this year's portfolio. BDPA Chapters are directed to make appropriate plans to ensure their Executive Committees, Delegates, new members, student members, participating High School Computer Competition teams and IT Showcase teams have successfully made room reservations and pre-registered prior to the end next quarter.

I look forward to our 35th Anniversary Reunion and ICT Industry outreach events next August in our Nation's Capital!

Monique F. Berry

Monique F. Berry
National President
National BDPA

Ready, *from Cover Page*

The campaign's messages have been distributed through: television, radio, prints, outdoor and Web (PSAs) developed and produced by The Advertising Council; brochures; www.Ready.gov and www.Listo.gov Web sites; toll-free phone lines 1-800-BE-Ready and 1-888-SE-Listo; and partnerships with a wide variety of public and private sector organizations.

In 2004, The Department of Homeland Security (DHS) and The Federal Emergency Management Agency (FEMA) launched *Ready* Business, an extension of the *Ready* campaign that focuses on business preparedness. *Ready* Business helps owners and managers of small- to medium-sized businesses prepare their employees, operations and assets in the event of an emergency. The campaign's messages are being delivered through *Ready* **Business section** of this Web site, brochures, radio, print and internet PSAs and key partnerships.

In 2006, FEMA launched *Ready* Kids, a tool to help parents and teachers educate children ages 8 - 12 about emergencies and how they can help get their family prepared. The program includes family-friendly **Web pages** and online materials developed by Sesame Workshop and Discovery Education.

FEMA has also worked with a variety of public and private sector organizations to develop tailored preparedness information for specific Americans. The Department worked with American Kennel Club, American Society for the Prevention of Cruelty to Animals, American Veterinary Medical Association and The Humane Society of the United States to create materials that highlight the key steps pet owners should take to prepare themselves and their animals. FEMA also worked with AARP, the American Red Cross, the National Organization on Disability and the National Fire Protection Association to create emergency information for seniors and Americans with disabilities and special needs. Materials developed for these specific Americans include brochures and instructional videos available at our **publications page**.

In 2008, The *Ready* Campaign added a section on their web site for military families. The entire Department highlights emergency preparedness through National Preparedness Month (NPM), a nationwide effort held each September.   **bt**

Source: **ready.gov**

Storm Models | Accurate Predictions

Photo credit: National Hurricane Center

Cover photo (NOAA): Computer models on 26 OCT 12 of then-Hurricane Sandy show different predictions for the storm's path. For more on **STEM** careers at NOAA or Meteorology fields, visit: http://www.careers.noaa.gov

Washington—National Public Radio (NPR) reported scientists are acknowledging better satellites, smarter computer models and faster computers helped government forecasters correctly predict devastation from Hurricane Sandy

It is unlikely the forecast would have been nearly as accurate just a couple of decades ago, they say. Industry attributes improved high-performance computing (HPC) for big-data, modeling and simulation (M&S), and predictive analytics.

NPR quoted Sharan Majumdar, an associate professor of meteorology and physical oceanography at the University of Miami saying, "The National Hurricane Center did a fantastic job, particularly with the track forecast and the intensity forecast as it was moving toward the Northeast."

Days before the storm hit, the National Hurricane Center (NHC) was warning people about the power and reach of the storm and the potential for an extreme storm surge in New York City.

"We're going to have a very, very large area that's affected by strong winds, storm surge, heavy rainfall, and inland flooding, and, in fact, even snowfall," forecaster James Franklin said in one of the NHC's numerous broadcasts to the public.

The accuracy of those forecasts was especially impressive because Sandy was a very odd storm. It turned left when most hurricanes turn right. It maintained its strength even as it struck land. And ultimately, it joined forces with another winter storm as predicted.

One reason the forecasts were so good is that the models used to predict weather around the globe are more accurate now and run on much faster computers than they used to, Majumdar says.

"What that means is that we can run the global models at a much higher resolution," he says. "So in the same way that our TV sets are going more high-def, computer models of the globe are also becoming more high-def."

And higher definition leads to higher accuracy. A week before Sandy arrived, one of the major computer models was already showing that Sandy would make a sharp left turn toward New Jersey.

Collecting Near Real-Time Data

All the computer models now get more and better data than they used to, Majumdar says. One source of these data is **dropsondes**, which are capsules dropped from air craft or drones directly into a hurricane. As they fall, they transmit constant streams of weather data.

"The dropsonde data tend to improve hurricane forecasts by up to 30 percent," he says. "So there's been some real significant improvements to the track forecasts over the last 15 years or so through the deployment of these dropsondes."

Government scientists already use more dropsondes than they did just a few years ago. But during Sandy, they put extra dropsondes into the storm to help resolve early differences in their forecast models.

NASA graphic: NASA Global Hawk unmanned aerial vehicle (UAV) outfitted for hurricane reconnaissance.

NPR also reports satellites are playing a very large role in improving forecasts, says Tom Renkevens from the National Oceanic and Atmospheric Administration (NOAA.) During Sandy, he says, satellites that sit over the equator were churning out high-quality pictures.

"We were taking images every 7 1/2 minutes continuously through the storm," he says. In the 1990s satellites took 30 minutes to produce an image, he says. Improvements to special satellites that orbit the Earth's poles also helped forecast Sandy, Renkevens says. He says these satellites report things like sea surface temperatures and humidity in the atmosphere at different altitudes.

"It's the information from these satellites that really is what drives a lot of the forecast models and the hurricane models," Renkevens says.

All of these technological improvements allow hurricane centers and operations centers to accurately predict extraordinary events during Sandy's brief life and future storms.

As the hurricane's rotating winds moved north, they began to approach the rotating winds of a cold winter storm, says Adam Sobel of Columbia University. "As the two got close to each other they both got caught up in the other's circulation," he says.

This complicated interaction helped steer Sandy sharply to the left and transform it into a monstrous winter storm, Sobel says.

NPR also reported It was remarkable that the Hurricane Center was able to see this coming several days before it happened, he says, adding that this probably would have been impossible just a couple of decades ago.

"The models could have simulated it in some sense," Sobel said. "But we wouldn't have seen a forecast being accurate that far ahead of time." **bt**

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Mel Karmazin - CEO

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35th Anniversary Kick-off and Fundraiser for Cyber & STEM Programs

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2012 Annual Awards Banquet
Wednesday, November 7th, 2012
Washington Navy Yard Conference Center

6 pm - 9 pm

Cyber Security and STEM Keynotes presented by Vice Admiral Manson K. Brown,
U.S. Coast Guard's Deputy Commandant for Mission Support and Pamela Gilliam,
CEO, INFOTEK International, DoD High Performance Computing Modernization Programs.

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- Family Websites
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VentureBeat

David Adewumi, contributing writer, Venturebeat

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Modeling and Simulation

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. **bt**

Source: **bdpa.org**

Orange County Conference Center | I/ITSEC 2012
December 3 - 6, 2012 - BDPA Orlando, Host Chapter

Orlando, FL **–** The National Training and Simulation Association (NTSA) increased its STEM efforts to capitalize on the natural interest of young people in using technology in their daily lives and our various programs—centered around the **Interservice/Industry Training, Simulation and Education Conference** (I/ITSEC)—to leverage that interest to stimulate enthusiasm for the sciences themselves and the exciting things that can be done with them. For NBDPA members in the South Region, the I/ITSEC conference promotes cooperation among the Armed Services, Industry, Academia and various Government agencies in pursuit of improved training and education programs, identification of common training issues and development of multiservice programs. With the **Serious Games Challenge & Showcase**, I/ITSEC is the world's largest modeling, simulation, and training conference featuring technologies and new mobile apps one will see deployed across all industry sectors in the very near future.

Initiated in 1966 as the Naval Training Device Center/Industry Conference, the conference has evolved and expanded through increased participation by other entities. The Army, Air Force, Marine Corps, Coast Guard, Industry and Academia have joined with the Navy in sharing leadership of the conference and in 1979 the title of the conference was changed to the Interservice/Industry Training Equipment Conference. The Services have steadily evolved toward a total systems philosophy in the acquisition of training equipment and training delivery systems. In 1986 the Conference name was further refined to the Interservice/Industry Training Systems Conference (I/ITSC) to recognize the increased importance of Manpower, Personnel, and Training aspects in the systems acquisition process.

In 1992 the name was further changed to the Interservice/Industry Training Systems and Education Conference (I/ITSEC) to reflect the consolidation of the Manpower and Training Committee (MTC) and the Technology and Innovations in Training and Education (TITE) Conference with I/ITSEC. This change emphasizes the importance of education and the man-machine interface in meeting force-training requirements through simulation training.

In 1997, to reflect continued growth and changes in the industry, the conference name was refined to the Interservice/Industry Training, Simulation and Education Conference (I/ITSEC). *Source and photo*: **iitsec.org**   **bt**

BDPA CHAPTER NEWS & INDUSTRY EVENTS

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**

TECHie Clubs Kick-Off in Ohio and Texas

BDPA Cincinnati chapter (led by Chapter President Clarence Larcarte) is proud to support two TECHie Clubs in Cincinnati, Ohio

Columbus, OH – Research has shown that offering hands-on, project-based learning that makes Science, Technology, Engineering and Mathematics (STEM) come to life not only inspires and engages students; it also builds the necessary skills and proficiency for future success in the workplace. Overwhelmingly, the afterschool setting is becoming the platform for such student experiences.

Last week, TECH CORPS' launched one of its signature programs – TECHie Club. This program includes over 40 hours of hands-on, interactive lessons for 3rd – 5th grade students. The goal of TECHie Club is to expose students to different technology concepts, to incite interest and encourage exploration.

This year, more than 20 TECHie Clubs are being implemented in Ohio and Texas. Nearly 100 tech savvy professionals will share their time and talents each week with more than 400 elementary students. TECH CORPS has recruited and trained tech-savvy volunteers from a myriad of companies and technology organizations.

"Our longstanding partners such as American Electric Power, **BDPA**, Information Control Corporation, and Safelite and have been instrumental in executing the TECHie Club program in Ohio," said Carla Thompson, TECH CORPS' Central Ohio Regional Director. "This year, we're also excited to welcome several new company and school partners like IBM, Resource Interactive, and KIPP Journey Academy."

"I love technology and working with kids; so, becoming a TECH CORPS TECHie Club volunteer was an easy decision for me," said Matt Grover, Director of Technology at Resource Interactive. "I'm excited about being a new volunteer and working with the students at Holy Spirit."

"After hearing about the TECHieClub program, I definitely wanted to bring it to my school," said Anita Mullins, Afterschool Coordinator for KIPP Journey Academy. "TECHie Club seemed to offer the technology component that was missing in our program."

The majority of the TECHie Clubs kicked off last week with more to launch in the upcoming weeks and months.

TECHie Club students will learn about everything from browsers to hardware, from the basics of translating their names into binary language, to writing code in HTML and programming in *Scratch*.

CAREER NEWS & EVENTS

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 or create new accounts today.

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   **bt**

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November 2012 | On the Surface, Build New Windows 8 LOB Apps

The Clubs will continue each week through May 2013 and wrap up the year by participating in techieloka, a student technology competition developed by TECH CORPS in 2011. "Loka" is Sanskrit word for "world; therefore, "techieloka" means techie world. Techieloka is an exciting and competitive event where students present projects on different computing and engineering topics to a cadre of technology-savvy judges from the community.

"Our team can't wait to get started with TECHie Club and preparing for techieloka," said Kara Byerly, Director of Engineering at IBM Columbus. "We're a pretty competitive group!"

Volunteers are still needed for TECHie Clubs in Cleveland, Ohio scheduled to kick off in January. If you are interested in getting involved with TECHie Club or techieloka – contact us at **www.techcorps.org**. **bt**

COURTESY: MICROSOFT

Tableau Digerati | #BYOD

Redmond, WA bt Newswire–Windows Store App Labs are physical locations in more than 30 cities where developers (#AppDev) can access Windows 8 devices, get design help, and meet with Windows experts to make an app great. All for free—NBDPA members and developers may now get started on developing new enterprise line-of-business (LOB) apps today!

Check out and test on the newest Windows 8 devices

Design and test apps on a variety of screen sizes, input methods, and chipsets with the latest Windows 8 devices including Windows RT tablets, Ultrabooks, All-in-Ones, and more.

Get design guidance from leading edge design agencies

Designers will review app mock-ups or developers' complete app and provide feedback on how one can improve his or her app's layout, navigation, live tile, and other user-interface (UI) elements.

Get technical guidance from Windows 8 experts

Windows 8 experts are on hand to help test apps and offer any technical advice one may need. Microsoft also can help with coding tips, debugging, and prepping apps to submit to the Windows Store. **bt**

Not a Member? Visit **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

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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Upcoming BDPA and ICT Events
Information & Communication Technology

► **2012 Annual BDPA Chapter Scholarship and Award Fundraisers**

November 7, 2012 ► Washington, D.C. Navy Yard Conference Center

Washington, D.C. | BDPA-DC

Nov 8, 2012 ► Galloping Hill Inn ,

Union, NJ | BDPA-New Jersey

Nov 10, 2012 ► Receptions Conference Center ,

Fairfield, OH | BDPA Cincinnati

Nov 17, 2012 ► Sheraton Wilmington North ,

Wilmington , DE | BDPA Northern Delaware

Dec 4, 2012 ► Bourbon Street Bar & Grille

New York, NY | BDPA New York

► 2012 Fourth Quarter Senior IT Symposium

November 8-10, 2012

Orlando, FL | ITSMF + BDPA Orlando

► NNOA Scholarship Deadline (Non-NROTC awards)

November 9, 2012 ► Open to all qualified student members

United States | Download announcement from **bdpatoday.org**

► SC12 | Supercomputing 2012

November 10-16, 2012,

Salt Lake City, UT | SC12 + JEF + BDPA Western Region

► I/ITSEC 2012

World's Largest Modeling, Simulation, and Training Conference

December 3-6, 2012

Orlando, FL | NTSA + BDPA Orlando

► MED Week 2012 | Minority Enterprise Development Week

December 5-6 ► *September 2012 date was changed by MBDA*

Washington, D.C. | MBDA + NBDPA

► **35th National BDPA Technology Conference**

Career Expo, IT Showcase and HSCC Championships, HBCU Roundtable, Youth Technology Conference

August 13-17, 2013 ► **December 2012** for Pre-Registrations, Room Reservations, and Workshop Presentation Abstracts

Washington, DC | Host Chapters: BDPA-DC/BDPA NoVA

Visit bdpa.org Groupsites for new BDPA Chapter events…

February 7 – 9, 2013 | Washington, DC

2013 Black Engineer of the Year (BEYA)

A MULTICULTURAL EVENT | Washington, DC ● FEB 7-9, 2013

Washington, D.C.—Next year's BEYA STEM Conference is hosted by

Professionals will find training, networking, role models, mentors, and inspiring awards events.
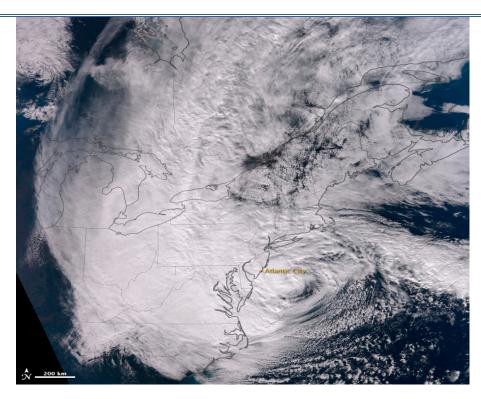
Students can attend the career fair and meet top employers, take advantage of onsite resources designed to enhance job search, to enhance their academic career, as well as to get tools for a successful STEM career.

Sponsors and Exhibitors will have opportunities to enhance their visibility in the STEM community and recruit new hires. Get started by downloading the conference prospectus and contact us to reserve your space today!

Other events at BEYA that you will want to check out are the Science Spectrum's Trailblazers Lunch, the Emerald Honors Dinner, and the Seminars and Workshops. We are especially proud of the HBCU Engineering schools' presentations. It's your opportunity to learn about the cutting-edge research that is taking place at these institutions.

Our K-12 Program also is an opportunity for you to connect with the organizations that are working to build tomorrow's STEM workforce. Whether you are in the job market or not, don't miss the 27th Annual Career Fair. It is often the place to sample new technologies and experience best practices in high growth industry market segments.   **bt**

Source: ccgmag.com

◄ The **Visible Infrared Imaging Radiometer Suite** (VIIRS) on the **Suomi NPP** satellite acquired this natural-color image of *Super Storm Sandy* at 1:35 p.m. Eastern Daylight Time (17:35 Universal Time) on October 29, 2012.

NASA Earth Observatory image by Jesse Allen, using Suomi NPP VIIRS data provided by Cooperative Institute for Meteorological Satellite Studies **(CIMSS).** Suomi NPP is the result of a partnership between NASA, NOAA and the Department of Defense. Caption by Michon Scott.

VIIRS: Visible Infrared Imaging Radiometer Suite

Miami, FL—On October 29, 2012, Hurricane Sandy approached the densely populated U.S. East Coast. An estimated 60 million Americans were expected to be affected by rain, wind, snow, or ocean surges from the storm. The Visible Infrared Imaging Radiometer Suite (VIIRS) on the Suomi NPP satellite acquired this natural-color image of Sandy at 1:35 p.m. Eastern Daylight Time (17:35 Universal Time) on October 29.

At 2:00 p.m. EDT on October 29, the U.S. National Hurricane Center (NHC) reported that Sandy was located about 110 miles (180 kilometers) southeast of Atlantic City, New Jersey, and about 175 miles (285 kilometers) south-southeast of New York City. The storm had maximum sustained winds of 90 miles (150 kilometers) per hour. The storm was moving toward the northwest at about 28 miles (44 kilometers) per hour. The NHC stated that Sandy could transition into a wintertime low-pressure system later in the day, but cautioned that this would not weaken the storm prior to landfall.

The NHC forecast that Hurricane Sandy would come ashore on the evening of October 29, along the coast of southern New Jersey or Delaware. They warned of

multiple hazards associated with the storm. Hurricane-force winds were predicted for the Mid-Atlantic States, including New York City, with tropical storm-force winds from Virginia to Canada. A storm surge, combined with astronomically high tides (at full Moon), promised to flood coastal areas with waters as much as 11 feet (3 meters) above normal. Sandy was forecast to drop as much as 8 inches (20 centimeters) of rain, and the mountains of Appalachia were expected to receive up to 3 feet (1 meter) of snow.

The NHC urged citizens to consult their local National Weather Service forecast offices for more information. Government officials urged people to heed evacuation warnings, and hundreds of thousands fled their homes by October 29, CNN reported. More than 100,000 customers in seven states had already lost electrical power. In the days leading up to the storm, as residents stocked up on supplies and utility companies called in reinforcements from across the country, the U.S. Geological Survey deployed more than 150 storm-surge sensors along the Atlantic Coast to monitor Sandy's effects in real time. **bt**

Source: **earthobservatory.nasa.gov**

Force Majeure — SANDY: The Aftermath

White House—President Barack Obama and New Jersey ▶ Governor Chris Christie look at storm damage along the coast of New Jersey while flying aboard *Marine One*, Oct. 31, 2012.

(Official White House photos by Pete Souza)

◄ **White House**—President Barack Obama receives an update on the ongoing response to Hurricane Sandy, in the Situation Room of the White House, Oct. 29 2012. Participating (via teleconference) clockwise from top left, are: Secretary of Homeland Security Janet Napolitano; FEMA Administrator Craig Fugate; Rick Knabb, Director of the National Hurricane Center; Secretary of Transportation Ray LaHood; and Secretary of Energy Steven Chu. Pictured, from left, are: Clark Stevens, Assistant Press Secretary; Emmett Beliveau, Director of the Office of the Chief of Staff; John Brennan, Assistant to the President for Homeland Security and Counterterrorism; Richard Reed, Deputy Assistant to the President for Homeland Security; Chuck Donnell, Senior Director for Resilience; Asha Tribble, Senior Director for Response; Chief of Staff Jack Lew; Alyssa Mastromonaco, Deputy Chief of Staff for Operations; Press Secretary Jay Carney; and David Agnew, Director for Intergovernmental Affairs.

◄ **Washington, D.C.**—In a rare airlift, the Pentagon announced it flew 17 large cargo aircraft from California to New York loaded with power generation equipment and crews to help restore electricity to the millions of homes and businesses devastated by Superstorm Sandy. After a conference call with FEMA and the Energy Department, the Pentagon said 630 tons of equipment is being provided by Southern California power companies. Several generators (left photo) were used to help recharge mobile devices for displaced residents.

Source: **military.com**

SC12: Supercomputing 2012

Salt Lake City, UT—For 24 years, SC has been at the forefront in gathering the best and brightest minds in supercomputing together, with our unparalleled technical papers, tutorials, posters and speakers. SC12 will take a major step forward not only in supercomputing, but in super-conferencing, with everything designed to make the 2012 conference the most 'you' friendly conference in the world. SC12 is streamlining conference information and moving to a virtually real-time method of determining technical program thrusts. No more pre-determined technical themes picked far in advance. Through social media, data mining, and active polling, organizers will see which technical interests and issues emerge throughout the year, and focus upon the ones that are of interest the most.

Broader Engagement (BE)

The goal of SC's Broader Engagement (BE) Program is to increase the participation of individuals who have been traditionally underrepresented in high performance computing (HPC). The program offers special activities to introduce, engage, and support a diverse community in the conference and in HPC. Competitive grants will be available to support travel to and participation in the SC'12 technical program. Consideration will be given to applicants from groups that traditionally have been underrepresented in HPC, such as African Americans, Hispanics, Native Americans, Alaska Natives, Native Hawaiians, Pacific Islanders, and other underrepresented groups around the world, including women and people with disabilities. SC12 encourages applications from people in all computing-related disciplines—from research, education and industry.

Mentoring Program
Linking Conference Veterans to Newcomers

Initiated and organized by BE, the Mentor-Protégé program supports the growth of a vibrant HPC community by connecting the newcomers at the SC conference with experienced conference attendees. The mentors share their experiences from previous SC conferences and their expertise in High Performance Computing (HPC) discipline with the protégés who are participants of the communities programs (HPC Educators, Student Volunteers, BE, and Student Cluster Challenge participants).

The SC12 Broader Engagement (BE) program will host its Student Job/Opportunity Fair from 10 a.m. - 12:30 p.m. and 1 - 3 p.m. on Wednesday, November 14. This face-to-face event is open to all students participating in the SC12 conference and is an opportunity for students interested in graduate fellowships, internships, summer job, graduate school assistant positions or permanent employment to meet with potential employers.

The 2011 Student Job/Opportunity Fair had employers from research labs, academic institutions, recruiting agencies and private industry who met with students to discuss about research, employment, internship and co-opportunities. This year's event is expected to be equally successful. Participating organizations will have the opportunity to interact with students in computer science, information systems, scientific computing and high performance computing related fields. **bt**

Source: **sc12.supercomputing.org**

BDPA Student Memberships ▶ $cholarships ▶ Internships

Organization/Agency	STEM Focus	Projected Deadlines	*Established BDPA Relationships
Allstate**	All Majors	Winter 2013	**National BDPA Platinum Sponsor** BDPA Chicago
Amtrak	Engineering, Mechanical, and Transportation	Fall 2012/Winter 2013	BDPA-DC & BDPA Philadelphia – Student members with 3.0 GPA or higher
Army Corps of Engineers	Most STEM majors	Winter 2013	BDPA Baltimore, BDPA Huntsville
CSC	Analytical, Computer Science, STEM-IC (Intelligence &	**Fall 2012**/Winter 2013	BDPA Cincinnati, BDPA-DC, BDPA Northern Virginia, BDPA Hartford
Freddie Mac	Finance & Accounting, Instructional Design, HR	April 2013	BDPA-DC, BDPA Northern Virginia – Grad Student members with 3.3 GPA or
HBCU/MI Project Office	CS-STEM or STEM-IC; able to obtain clearances	**November 2012**	BDPA Atlanta, BDPA-DC, BDPA Houston, BDPA Huntsville
HP**	CS-STEM	Winter 2013	**National BDPA Platinum Sponsor** 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
Johnson & Johnson**	All Majors	Winter/Spring 2013	**National BDPA Platinum Sponsor** Speak with J&J reps at Regional Events
National Naval Officers Association	STEM, CS-STEM, & STEM-IC	**November 9, 2012**	Download announcement and forms from **bdpatoday.org**
National Security Agency (NSA)	Analytical, (CSIP) Computer Science, SIGINT, STEM-IC	**November 15, 2012**	BDPA Baltimore and BDPA-DC Chapter STEM-IC (Intell & Cyber) SIGs
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 2012**	NBDPA CONUS or NROTC
Raytheon	C4ISR, STEM-IC, Systems Engineering, Communications	Fall, Spring, & Summer	BDPA Huntsville, BDPA-LA, BDPA Mass-Metro West (Boston)
SiriusXM Satellite Radio	Communications, CS-STEM, Multimedia, SATCOM	Fall & Spring	BDPA-DC & BDPA-NY
TASC	Analytical, Computer Science, STEM-IC	Spring 2013	BDPA-DC & BDPA Northern Virginia
United States Air Force	All Majors	**Fall 2012**	NBDPA CONUS or AFROTC

**BOLD text indicates National BDPA Platinum Sponsors; NBDPA *HSCC and IT Showcase* Alumni encouraged to apply

College graduate and undergraduate STEM majors with cumulative GPAs greater than 3.2 are invited to establish broader professional STEM, Cyber, and ICT Industry networks by joining BDPA <u>and</u> actively participating in National BDPA Technology Conferences and Career Fairs. Join us **August 14-17, 2013**, in Washington, D.C., at the Hilton Washington. Your next internship is one step closer with your *Student Membership* (**$25**) by visiting **www.bdpa.org** . **bt**

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