Information Technology for Emerging Communities

Charitable Giving & Volunteering

Opening Doors for Youth in Technology ➲ Page 12

Southern Maryland Youth in Technology Summit 2008 Issue

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National Science Foundation

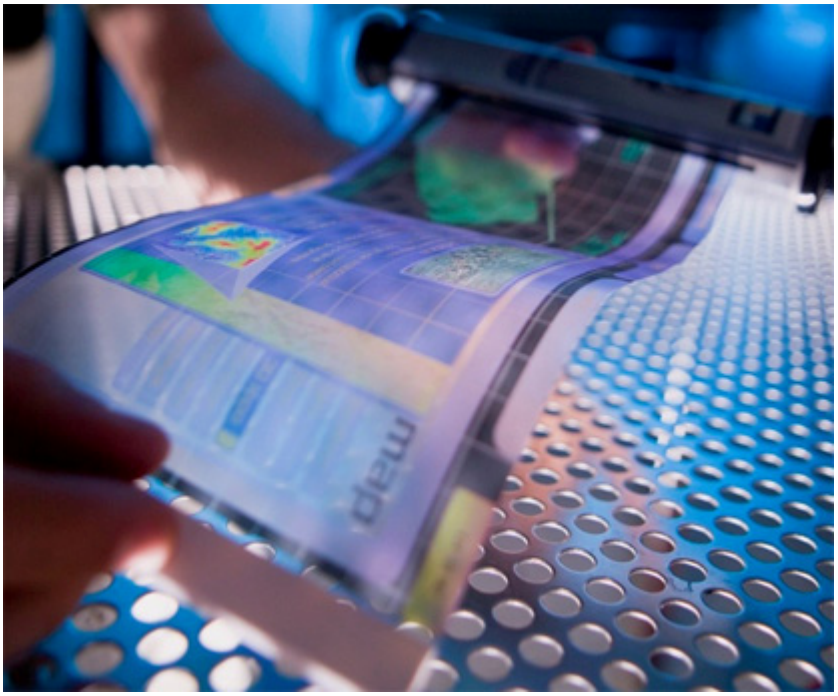
Software Development for Cyberinfrastructure (SDCI) Program

INTERNET2

ARLINGTON, VA—The National Science foundation (NSF) recently awarded funding to the University of Delaware for an SDCI grant. This program supports software development across three major sectors: system software and tools for High Performance Computing (HPC) environments; software promoting NSF's strategic vision for digital data; and software in the form of middleware capabilities and services to support distributed resource sharing and virtual organizations.

Delaware's proposed project addresses development and deployment of a cyberinfrastructure system for network monitoring, measurement, reporting, and debugging that is interoperable and sharable across multiple network domains. The software system, called ***perfSONAR***, is already an international software effort whose architecture has been adopted by the major research and education networks in the United States (Internet2 and ESNet) and abroad.

NSF funds research and education in science and engineering, through grants, contracts, and cooperative agreements. The NSF accounts for about 20 percent of federal support to academic institutions for basic research.



HP and the Flexible Display Center (FDC) at Arizona State University (ASU) are collaborating on flexible display technology, paper-like computer displays made almost entirely of plastic. The technology is easily portable and consumes less power than today's computer displays.
Full story begins on *Page 12*. *Photo credit: FDC at ASU*

Cloud Computing Expo '09

New York | March 30 – April 1, 2009

New York, NY—With the advent of Cloud Computing, the cost of computation, application hosting and content storage and delivery is plunging fast by several orders of magnitude.

This is why many analysts and industry-watchers believe that Cloud Computing is changing not just the technology landscape but also the entire nature of our business models that underpin successful software and hardware companies.

Entrepreneurial opportunities abound as this classic disruptive technology begins to proliferate and the **2nd International Cloud Computing Conference & Expo, being held 30 March - 1 April 2009 in New York City**, is going to be one of the largest conferences devoted to delivering and using massively scalable Enterprise IT as a service leveraging Internet technologies. **BDPA-NY**

http://cloudcomputingexpo.com

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BDPA DC

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Technology Awareness Program

A COMMUNITY TECHNOLOGY DEVELOPMENT & AWARENESS PROGRAM

A community technology development & awareness program TAP provides corporate sponsors with a turnkey program that enables them to advance the value of technology to African-American, Hispanic, and Native American communities *through three programs:* La Familia Technology Awareness Week; Native American Family Technology Journey; and Black Family Technology Awareness Week. The programs are comprised of content designed for audiences from kindergarten through 12th grade and includes their parents and extended families. TAP enables companies to augment their public image among minorities by extending their outreach efforts into those communities.

TAP
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For more information call 410-244-7101 or visit our websites!

Black Family Network
www.blackfamilynet.net

Lafamilia Network
www.lafamilianet.net

Native American Family Network
www.firstpeoplesnet.net

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Welcome 'Class of 2020'

Tomorrow's Software Engineers and Interns are preparing to deliver high performance computing solutions to global customers with emerging science, technology, engineering, and mathematics (STEM) requirements. This year's BDPA HSCC finalists helped raise the bar for them.

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TMI

12.16.08 – Growing *IT* Special Interest Groups

On Tuesday, December 16, 2008 BDPA-DC will participate in Southern Maryland's Youth in Technology Summit 2008. This is a very special after-school event for area youth and families. The College of Southern Maryland (Leonardtown Campus) is hosting this year's venue. Participating BDPA members, guests, and community leaders will be able to develop industry-specific Special Interest Groups (SIGs) and neighborhood Chapter Interest Groups (CIGs) to expand committee services and chapter programs to emerging communities within our region.

BDPA-DC SIG overtones include growth areas such as High Performance Computing, Modeling & Simulation, Intelligent Transportation Systems, Robotics, and Web 2.0 technologies. BDPA-DC CIGs form within the National Capital Region to provide emerging technology support and professional development services for the District of Columbia and counties in Southern Maryland. To schedule a BDPA CIG event near you, visit our website at *www.bdpa-dc.org* for meeting and event locations or call our national office in Largo, MD at 800.727.BDPA (2372).

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BDPA, formerly known as Black Data Processing Associates, was founded in 1975 to promote professional growth and technical development for those in or entering information technology (IT) oriented fields of interest and related industries. BDPA 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** or by calling **1.800.727.2372 (BDPA)**. **bdpatoday** (Washington, D.C. Chapter Edition) is published by the Washington, D.C. Chapter's Communications Committee, mailed to BDPA-DC Chapter 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 mailing offices.
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BOWIE STATE UNIVERSITY
Prepare For Life

AFFIRM President to Host Industry Recruitment Reception

Small Business Executives Invited to Attend Power Networking Event

Reston, Virginia—ITSMF members and BDPA small business executives are invited to Microsoft's office in Reston, Virginia, Wednesday evening, December 10, 2008, to meet Ms. Jackie Patillo. She is president of AFFIRM, the Association for Federal Information Resources Management, a non-profit organization of information resource management professionals from Federal, academia, and private industry sectors. Jackie Patillo is the Deputy Chief Information Officer (DCIO) for the U.S. Department of Transportation (DOT). She currently serves as the principal advisor to the Departmental CIO on matters involving information resources and information services management. Jackie began her role as the DCIO in October 2005, after serving in the role as Chief Information Officer at National Highway Traffic Safety Administration (NHTSA): one of the modals in DOT. Prior to serving at NHTSA, Jackie was head of the infrastructure at the United States Mint, where she was responsible for information technology policy, telecommunications, help desk services, and data center services. She has spent all of her career in public service. In addition to Federal service, she served dual roles as the Chief Information Officer and Director of Data Systems Management for the State of Alabama. Jackie, along with other AFFIRM members on her board are senior IT professionals overseeing major Federal agency technology programs and IT projects.

Jackie Patillo
Deputy CIO
U.S. Department of Transportation

Regulatory Input From 'Main Street'

The Administrative Procedure Act (APA) requires Federal agencies to follow certain steps for formal and informal rulemaking. Federal agencies have joined the Federal Docket Management System (FDMS), our government-wide online e-Rulemaking system which extensively is used by Congress, agencies, lobbyists and advocacy groups to track and comment on proposed rules and regulations. The Internet will continue to help BDPA members participate in advocacy and online e-Rulemaking. AFFIRM recently held an e-Rulemaking panel discussion on Capitol Hill. **RSVP:** ***www.affirm.org***

BDPA DC

2009 Presidential Inaugural Balls

Arizona Presidential Inaugural Gala
Commander-In-Chief Ball
Constitution Ball
Democracy Ball
Freedom Ball
Garden State Inaugural Gala Ball
Hawaii State Society Inaugural Ball
Illinois Presidential Inaugural Gala
Independence Ball
Liberty Ball
Patriots Ball
South Carolina Inaugural Ball
Stars and Stripes Ball

Inauguration Tickets are available from Congressional Representatives. BDPA's Washington, D.C. Chapter will post additional information. Join the Chapter's Newsletter Groupsite for the latest industry news and member updates:

bdpatoday.org

bdpatoday

Presents:

BDPA Day On The 'Hill

Tuesday, January 20, 2009
Inauguration Day
&
Wednesday, February 18, 2009

Participating BDPA Chapters formally will present agenda items to the 111th Congress. To add, modify, or recommend agenda items for consideration, contact local BDPA Chapter Government Relations Subcommittees or BDPA's Washington, D.C. Chapter.

washingtondc@bdpa.org

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TeraGrid 2009 Conference

The TeraGrid is an open scientific discovery infrastructure combining leadership class resources at eleven partner sites to create an integrated, persistent computational resource. Using high-performance network connections, the TeraGrid integrates high-performance computers, data resources and tools, and high-end experimental facilities around the country. How soon your community benefits from these resources directly depends on stakeholder levels of involvement.

TeraGrid '09
June 22-26, 2009

Hyatt Regency Crystal City
Arlington, Virginia

www.teragrid.org

Launch a ***TeraGrid* SIG** (Special Interest Group) within your BDPA Chapter.

Call BDPA or JEF today. Join or co-sponsor student teams **November, 14-20 2009** in Portland, Oregon during this year's Supercomputing Conference **SCO9**. BDPA also seeks members interested in forming Supercomputing SIGs and a Portland, OR Chapter Interest Group.

1.800.727.BDPA
www.bdpa-dc.org

Currently, TeraGrid resources include nearly a petaflop of computing capability and more than 30 petabytes of online and archival data storage, with rapid access and retrieval over high-performance networks. Researchers can also access more than 100 scientific data collections. With this combination of resources, the TeraGrid is the world's largest, most comprehensive distributed cyberinfrastructure for open scientific research. TeraGrid provides resources at eleven partner institutions: Indiana University (IU), Louisiana Optical National Center for Atmospheric Research, National Center for Supercomputing Applications (NCSA), National Institute for Computational Sciences, Oak Ridge National Laboratory (ORNL), Pittsburgh Supercomputing Center (PSC), Purdue University (PU), San Diego Supercomputer Center (SDSC), Texas Advanced Computing Center (TACC), and University of Chicago/Argonne National Laboratory (ANL/UC).

Photo credit: Joint Educational Facilities (JEF)

Las Vegas, NV—This past June, JEF student participants from BDPA's Mid-Atlantic Region participated in advanced computing competitions during the third annual TeraGrid conference, which encourages young people to enter careers in high-performance computing (HPC), scientific visualization, and grid computing. Cadeal Chase [Baltimore], third from left, Bryan Bemley [Washington], fifth from left, stands with Frederick Smith, III [Northern Delaware], fourth from right and Dr. Jesse Bemley [JEF], second from right.

HSCC $cholarship
Awardees Acknowledged at 30th Anniversary Gala

Washington—BDPA-DC's Regional High School Computer Competition (HSCC) Champions and 2009's new student members received awards and certificates on November 12, 2008. The next National HSCC will be held in Raleigh, North Carolina during the **National BDPA Technology Conference, August 5-8, 2009**. Final HSCC teams are comprised of four to six students each. However, remaining students are eligible to participate in BDPA's annual Youth Technology Camp (YTC) during our Conference. Local teams have prepared to travel to the National BDPA Technology Conference. All students are allowed to participate in the Student Youth Technology Camp and all other planned student activities. The competition team will compete with other BDPA chapter teams throughout the United States developing web applications, mastering computer theory, conducting oral presentations and publishing their team's deliverables during written competition. The top five (5) teams will win college scholarships, computer hardware and software. NBDPA likely will extend awards to the top six (6) teams in 2009 due to increased participation in BDPA Regional HSCC events. BDPA student members and HSCC students are afforded an opportunity to participate or attend next year's **TeraGrid '09 Conference** in Washington, D.C. and the **Supercomputing 2009** (SC09) Expo next November in Portland, Oregon. Student memberships are always available to interested students at $15 for high school, community college, vocational school, 4-year college or university attendees.

Serving the District of Columbia and surrounding communities for over 25 years, Joint Educational Facilities (JEF) is an all-volunteer non-profit community-based organization providing instruction, research, and development guidance to Washington, D.C. area middle and senior high school students. Topics in Advanced Computing Sciences, Contemporary Mathematics, Geographical Information Systems (GIS), High-Performance Computing (HPC), Intelligent Technologies, and Robotics are offered. Parent-Student teams are encouraged to enroll this Fall or next Winter and participate on-line via the Internet, in the lab, or during any JEF event.

Now accepting enrollments from Junior and High School students for Winter 2008 and Spring 2009 sessions. For more information, call (202) 584-1898 to register as a student. Instructor-mentor, parent-student teams, JEF scholarships and internships with JEF also are available.

Contact: **Dr. Jesse Bemley**
(202) 584-1898
www.jef.org

2528 Naylor Road, SE., T-3
Washington, DC 20020

JEF | COMBINED FEDERAL CAMPAIGN (CFC) Number: #40978

JEF | UNITED WAY Campaign: Write-Ins

BDPA IT Showcase

During recent Mid-Atlantic Region presentations at Bowie State University, undergraduate and high school students excelled at presenting advanced technical concepts to general audiences. White Papers were published for the National BDPA Technology Conference recently held in Atlanta, GA.

Call for Papers

Regional BDPA IT Showcase
Washington, D.C. | June 2009

2008 Sponsor
Johnson & Johnson

WHO SHOULD ATTEND 2009's NATIONAL BDPA TECHNOLOGY CONFERENCE?

RALEIGH CONVENTION CENTER | AUGUST 5-8, 2009 | RALEIGH, NC

Young Americans are treated to the latest in Information Technology (IT.) Our Youth Technology Conference (YTC) has designed intense, IT related workshops and seminars to encourage and inspire youth to pursue Science, Technology, Engineering, or Math (STEM) careers with an information technology focus. High school teams from across the country annually compete for the High School Computer Competition (HSCC) National Title.

High School Students - Teams of high school students converge at the BDPA national conference to showcase their skills, teamwork, and creativity as they compete in an intensive 3-day competition. Others will be amazed at the talent and intellect of these students as they bond, compete, grow, learn and enjoy a healthy competitive environment laced with the most challenging technology available.

Corporate Sponsors have the opportunity to meet, greet, interview and network with some heavy-hitters in the IT field. Corporations also have the opportunity to showcase their products and services to thousands of members and attendees. This is an excellent opportunity to recruit qualified IT talent.

Senior IT Executives - BDPA has affiliated with the ITSMF to help achieve their objective. Senior information technology executives assist African American women and men in preparing for senior level positions.

IT Professionals have the opportunity to become engaged in "career possibilities". Our conferences offer professionals the opportunity to explore new IT horizons, to network with IT professionals, and to explore new employment opportunities with corporate sponsors.

Entry Level IT - Individuals just entering the IT field (or IT has entered *your* field) cannot afford to miss annual conferences. These annual meetings are "game-changing" experiences to help launch your career. Where else can you find professionals in virtually every concentration of IT? Where else can you find seminars and workshops specifically designed to enhance your skills and boost your career? This is the perfect opportunity to improve your IT career position. Whether you network and find a mentor, or attend a seminar that pushes you in a specific IT direction, everything about our conference will promote positive results in your career. Let's not forget about the Career Fair and Technology Expo, which provides an excellent opportunity to develop or continue to nurture relationships, distribute your updated resumes, and interview on the spot with many corporations that are looking for you!

Parents – Come join us! Share the fun and learning experiences with your children in our BDPA Host Chapter cities.

Community-Based Organizations - There is more to learn at our conferences. Technology is HERE! Don't let your organization fall behind because you were reluctant, or did not have the skills necessary to integrate your organization with technology. Many of our seminar tracks will help you better organize your CBO. Learn how to build your organization using technology, strategy, and team building.

Entrepreneurs – A "platinum" opportunity to network with other established firms and business partners in your market. Attending and presenting at some of our workshops are some of the most aggressive, successful entrepreneurs who are willing to share their experiences or opportunities with you.

Conference excerpts provided by ***Electronic Village***

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small-company environment
big-company impact

We Need a Revolution: Health and Technology (Part 3 of 3)

by Donald George | dgeorge@mindspring.com | CEO, PRISM Communication Systems, Inc. | **BDPA Atlanta**

SOA: Technical Basis for the Health and Technology Revolution

With the growing recognition of inefficient practices, growing demand, and the potential improvement through a revolution, it is important to note that a solid technical foundation is a key part of the goal. The goal is not just to point out the wrongs, but to bring sound abilities, technologies, and skills to implement those technologies. The Service Oriented Architecture (SOA) is a vital technical foundation for a successful revolution in the healthcare system.

A Service-Oriented Architecture (SOA) provides the building blocks and glue to build a health framework that integrates health services across all healthcare settings. From a layman's point of view—the SOA is the technical "engine" that provides a single view of patient care from birth to death. SOA is about the business results that can be achieved from having better alignment between the business and IT. The SOA health framework provides a virtual environment for services and external systems to enable interoperability and data sharing across healthcare enterprises. It is the technical goal (*i.e.* a key enabler) of the revolution, while the "point of delivery" goal is to revolutionize healthcare delivery by making it seamless, accurate, efficient, and effective with our system of doctors, hospitals and clinics.

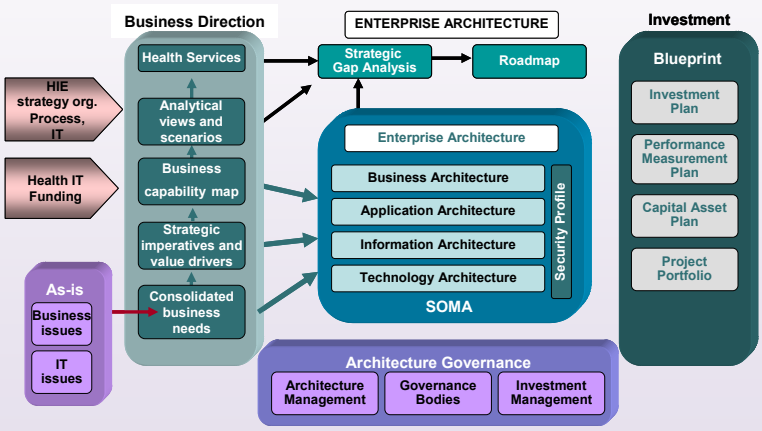
Summary

So, we have a desperate need, an increasing recognition of that need, we have proponents and soldiers and some great technologies. The Healthcare Revolution challenge is a race to design, build and cooperate to implement an infrastructure that anticipates and supports the growing care demands while addressing prevention in an ever-growing population with chronic needs. Health IT is the core tool in the "Digital Healthcare Revolution" and Health IT professionals are needed to bring about a new age of innovation to power breakthroughs in healthcare. It is a revolution, like so many others before it, that will be well worth the fight.

PRISM | Blueprint For Health Transformation

Achieving interoperability through enterprise architecture

and service-oriented modeling and architecture (SOMA)



***PRISM** is on the forefront of the "Digital Healthcare Revolution", and health IT is the engine that is being used to accelerate the transformation of healthcare. For more information on PRISM's consulting and education, visit:* **http://www.prismsolution.com** .

BDPA IT Institute

BDPA U

In 2006, BDPA entered into a partnership with Auburn University to provide an Academic Chair to the BDPA IT Institute and to utilize its Office of Distance Learning to globally deliver our IT Institute courseware and certification content.

Dr. Juan Gilbert is the Distinguished Associate Professor Fellow, Auburn University Center for Governmental Services where he directs the Human Centered Computing Lab and The BDPA IT Institute.

Industry icons such as Deloitte, EMC Corporation, Ernst & Young, and IBM have supported this program since its inception.

Juan Gilbert, Ph.D. T-SYS
Human Centered Computing Lab
The BDPA I.T. Institute

Contact Information:
1.800.727.BDPA (2372)
institute@bdpa.org

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January 2009 Edition

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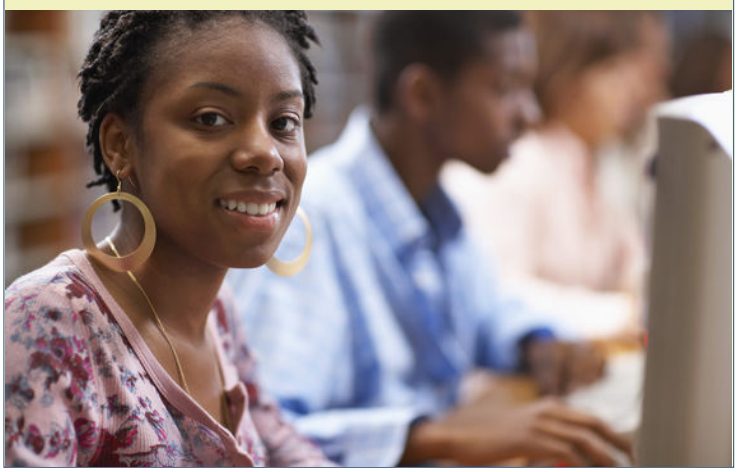

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Career Upgrade Connections

In 2009, BDPA's Washington, D.C. Chapter invites new communities to grow with us for our next 30 years with your professional development, and community outreach programs.

Committees to Chair or Join:

- **Audit/Finance/Sales/Grants**
  Invest in our *trillion-dollar* industry
- **IT Programs/Chapter Events**
  Host *Interest Groups* and meetings
- **Membership/Services**
  Source *non-IT* members for growth
- **Government Relations/Advocacy**
  Track laws in our *high-tech* society
- **Communications + PR**
  Join local BDPA *multimedia* teams
- **Education/Training/Standards**
  Develop *courseware*, be a *Mentor*

What To Look For in 2009:

- America's new 111th Congress
- Inauguration of a new President
- Black Engineer of The Year Awards
- BDPA-Day-On-The-Hill
- ITSMF Symposium and Gala
- FOSE 2009
- Regional BDPA Golf Classic
- Regional HSCC Competition (Youth)
- Regional IT Showcase (Students)
- TeraGrid '09
- National BDPA Tech Conference
- National IT Showcase (Students)
- National HSCC Competition (Youth)
- Legislative Conference (CBCF/ALC)
- Prince George's Football Classic
- Supercomputing 2009 (SC09)
- 2009 BDPA-DC Awards Gala

Corporate sponsorships and member discounts are available by joining the Washington, D.C. BDPA Chapter:

www.bdpa-dc.org

202.659.5367 — or — 703.627.8257

SUPERCOMPUTING 2009 CONFERENCE PREVIEW

SC09 Broader Engagement (BE) Program

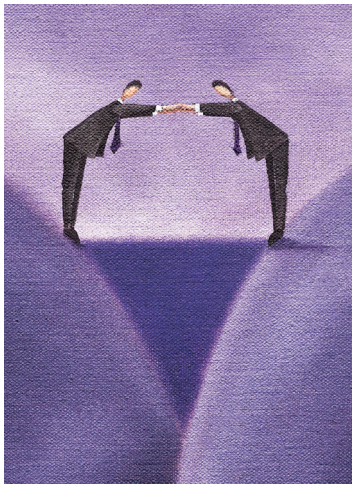
The SC09 Broader Engagement (BE) program is aimed at increasing the involvement of individuals who have been traditionally underrepresented in the HPC field. The program will offer a number of special activities at SC09 to stimulate interest within the SC conferences and the HPC community in general. Competitive grants will be available to support travel to and participation in the SC09 Technical Program by underrepresented groups. We encourage applications from all computing-related disciplines, including research, education, or industry. 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, the physically challenged, and women.

Questions? ➲ **be@info.supercomputing.org**
JEF and BDPA provide additional information for local teams. Visit: **www.bdpatoday.org**

Educational institutions, training companies, not-for-profits such as BDPA and government-funded training organizations can improve services to constituencies by joining CompTIA.

IT Career Upgrades

CompTIA is the leading association representing the international technology community. Its goal is to provide a unified voice, global advocacy and leadership, and to advance industry growth through standards, professional competence, education and business solutions.



BDPA-DC will work with CompTIA in 2009 to make certification testing more accessible with sponsored and discounted student vouchers. This upgraded member service allows BDPA members to keep their own skill sets current with industry requirements. Advanced training and free vouchers for additional CompTIA certifications will be made available for BDPA student and full members.

CompTIA Exam Vouchers for BDPA Instructors

Qualified BDPA members of E2C member schools who are training students in any of CompTIA's current certifications are eligible to receive a voucher for one of the following CompTIA certifications: **A+**, **Network+**, **i-Net+**, **Server+**, **Linux+**, **HTI+**, **RFID+**, **Security+ and Project+**.

Obtaining a CompTIA certification adds to personal credentials and paves the way to more lucrative and challenging leadership positions. Top technology companies like Cisco, HP, IBM, Intel, Microsoft and Novell leverage CompTIA certifications as electives or equivalents for their own certification tracks. BDPA members who achieve higher industry certifications with DoD security clearances attract growth industries to emerging communities, transfer knowledge to local schools while promoting economic development.

HP and Arizona State University Demo Flexible, Unbreakable Displays

PALO ALTO, Calif.--HP and the Flexible Display Center (FDC) at Arizona State University (ASU) announced the first prototype of affordable, flexible electronic displays. Flexible displays are paper-like computer displays made almost entirely of plastic. This technology enables displays to become easily portable and consumes less power than today's computer displays. Popular applications for the technology could include electronic paper and signage. The production feat is a milestone in the industry's efforts to create a mass market for high-resolution flexible displays. Plus, from an environmental standpoint, the displays leapfrog conventional display processes by using up to 90 percent less materials by volume. Mass production of such displays can enable production of notebook computers, smart phones and other electronic devices at much lower costs since the display is one of the more costly components.

The unbreakable displays were created by the FDC and HP using self-aligned imprint lithography (SAIL) technology invented in HP Labs, HP's central research arm. SAIL is considered "self aligned" because the patterning information is imprinted on the substrate in such a way that perfect alignment is maintained regardless of process-induced distortion.

SAIL technology enables the fabrication of thin film transistor arrays on a flexible plastic material in a low-cost, roll-to-roll manufacturing process. This allows for more cost-effective continuous production, rather than batch sheet-to-sheet production.

"We expect the flexible display market to grow from $80 million in 2007 to $2.8 billion by 2013."

By 2011, BDPA student members may have access to SAIL technologies providing flexible multimedia displays for wireless interactive gaming with peers, unprecedented collaboration with e-book publications, online faculty e-tutor "NetProfs", or industry mentors from ITSMF, BDPA, and JEF.

"The display HP has created with the FDC proves the technology and demonstrates the remarkable innovation we're bringing to the rapidly growing display market," said Carl Taussig, director, Information Surfaces, HP Labs. "In addition to providing a lower-cost process, SAIL technology represents a more sustainable, environmentally sensitive approach to producing electronic displays." Production of flexible displays. The first practical demonstration of the flexible displays was achieved through collaborative efforts between the FDC and HP as well as other FDC partners including DuPont Teijin Films and E Ink. To create this display, the FDC produces stacks of semiconductor materials and metals on flexible Teonex® Polyethylene Naphthalate (PEN) substrates from DuPont Teijin Films. * HP then patterns the substrates using the SAIL process and subsequently integrates E Ink's Vizplex™ imaging film to produce an actively addressed flexible display on plastic. E Ink's Vizplex bi-stable electrophoretic imaging film enables images to persist without applied voltage, thereby greatly reducing power consumption for viewing text.

"Producing a photolithography-free, flexible active-matrix display is an excellent example of the Flexible Display Center's world-class development and manufacturing infrastructure," said Shawn O'Rourke, director, Engineering, Flexible Display Center at Arizona State University. "It demonstrates how multiple industry partners can collaborate on innovative solutions, including roll-to-roll compatible technology that addresses the rapidly growing market for flexible electronics." "Flexible electronic displays are playing an increasingly important role in the global high-tech industry, serving as the crucial enabling technology for a new generation of portable devices, including e-readers and similar products designed to combine mobility with compelling user interfaces," said Vinita Jakhanwal, principal analyst, Small and Medium Displays, iSuppli. "We expect the flexible display market to grow from $80 million in 2007 to $2.8 billion by 2013. The Flexible Display Center at Arizona State University is a key participant in helping to develop the technology and manufacturing ecosystem to support this market."

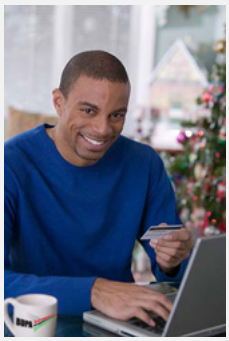
Charitable Giving & Volunteering

Social Capital + Intellectual Capital

Southern Maryland's first Youth in Technology Summit will be held at the Leonardtown campus of the College of Southern Maryland (CSM) on December 16, 2008 beginning at 4 pm. This event is designed to provide students and parents with very exciting STEM (science, technology, engineering, and math) workshops, more information about technology, education, and STEM oriented career opportunities. BDPA-DC along with a few of its STEM sponsors also will be exhibiting.

To deploy successful STEM events, several volunteers, corporate sponsors, and individuals donate time, funds, and materials to assist these and other STEM programs which open new avenues for our youth.

Why volunteer or donate time and cash? Community reinvestment and economic development are primary drivers. Volunteers maximize their opportunities to nurture relationships through professional networking during industry trade events. Moreover, volunteers are exposed to different tasks that may produce new career paths in the same community.



See *page 11* for a list of local BDPA Chapter Committees.

THE 23RD BEYA STEM GLOBAL COMPETITIVENESS CONFERENCE

February 19-22, 2009 , Baltimore, MD

Register before December 31, 2008 for the 2009 BEYA STEM Conference and receive 10% off the published registration fee.

Full Corporate Registration ~~$1200.00~~	$1080.00
Full Government Registration ~~$1100.00~~	$990.00
One Day Registration (Friday) ~~$525.00~~	$472.50
One Day Registration (Saturday) ~~$625.00~~	$562.50

✓ **Mark your calendar for the most important event of 2009.**

Act now!

Offer ends December 31, 2008

P.s. Don't forget to book your hotel room before the January 18, 2009 deadline.

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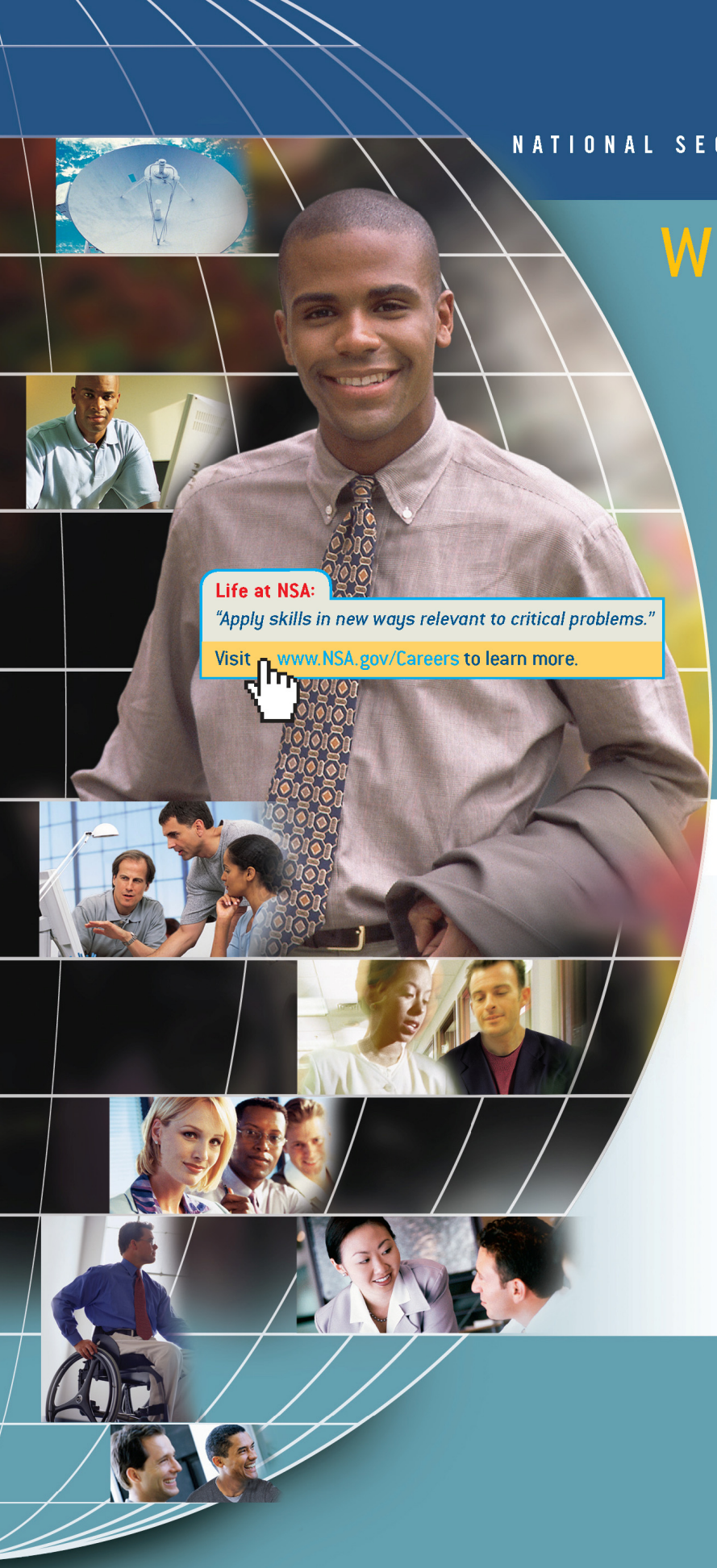

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THE DIGITAL TV TRANSITION

What You Need To Know About DTV

What Is The Digital TV (DTV) Transition?

Currently, many over-the-air stations are broadcasting in both analog and digital TV formats. After February 17, 2009, full – power TV stations will broadcast only in digital. The DTV transition will affect those who watch free over-the-air television (through a rooftop antenna or "rabbit ears"). If you watch over-the-air programs on an analog TV, you must take action before February 17, 2009.

Why Are Broadcast Stations Switching to Digital?

Federal law requires the switch, which will free up the airwaves for police, fire, and emergency rescue communications, allow broadcasters to offer programming with better picture and sound quality and offer more programming choices, and allow for advanced wireless services for consumers.

What Should I Do to Be Ready?

You have three choices:

1. **Connect your analog TV to a digital-to-analog converter box.** Digital-to-analog converter boxes are in stores and have a one-time cost of $40-$70. To help you pay for the boxes, the U.S. Government is offering two $40 coupons per household. (Please note that these coupons will expire 90 days after mailing). For more information on the coupons, visit **www.DTV2009.gov**, or call 1-888-388-2009 (voice) or 1-877-530-2634 (TTY). Plus, you should not need a new antenna if you get good quality reception on analog channels 2-51 with your existing antenna.

Or

2. **Buy a digital television (a TV with a built-in digital tuner).** You do not need a High Definition TV (HDTV) to watch digital broadcast television. You only need a digital TV (or an analog TV connected to a digital-to-analog converter box). Plus, you should not need a new antenna if you get good quality reception on analog channels 2-51 with your existing antenna.

Or

3. **Subscribe to a paid TV service.** If your TV set receives local broadcast stations through a paid provider such as cable or satellite TV, it is already prepared for the DTV transition. Cable companies are not required to transition or switch any of their channels to digital. However, if you have an analog TV that does not receive local broadcast stations through your paid provider, you will need a digital-to-analog converter box to watch digital broadcasts on that TV.

For More Information:

1-888-CALL-FCC (Voice) DTV.gov 1-888-TELL-FCC (TTY)

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Your next issue features articles from your community and industry trade shows, Capitol Hill reviews and other BDPA announcements. Scholarships, grants, and special 2009 intern announcements also are posted. Winter 2009 event information is updated and made available to BDPA Members. To join a BDPA chapter, or BDPA committee, call:

1.800.727. BDPA (2372) or visit:

www.bdpa-dc.org

- **Annual Memberships:** $75
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