



► **HSCC 2009**
2009's Regional High School Computer Competition to be held at Bowie State University. **Page 8**



► **FIRST Robotics**
PTTC/Bowie High School Robotics team captures first place at Regionals. Team heads to Nationals in Atlanta. **Page 16**



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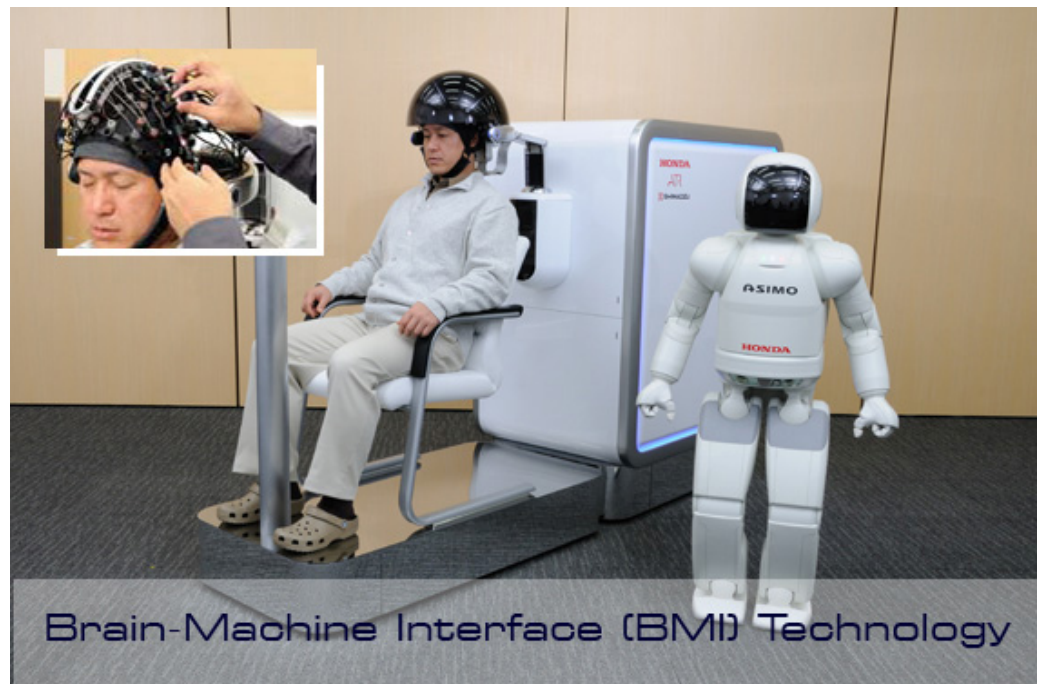
Washington, D.C. Chapter Edition

April 2009

Honda Team Jointly Develops Brain Machine Interface (BMI)

TOKYO—Honda Research Institute Japan Co., Ltd. (HRI-JP), a subsidiary of Honda R&D Co., Ltd., Advanced Telecommunications Research Institute International (ATR) and Shimadzu Corporation have collaboratively developed the world's first Brain Machine Interface (BMI) technology that uses electroencephalography (EEG) and near-infrared spectroscopy (NIRS) along with newly developed information extraction technology to enable

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Brain-Machine Interface (BMI) Technology

photo: © Honda Research Institute



GREENBDPA
SPRING 2009 ISSUE

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- High School Computer Competition | Regional BDPA HSCC
- COMPTIA Certifications | Career Tracks for Network+, RFID+, & more
- **CAREER OPPORTUNITIES** | Expanded Career Section

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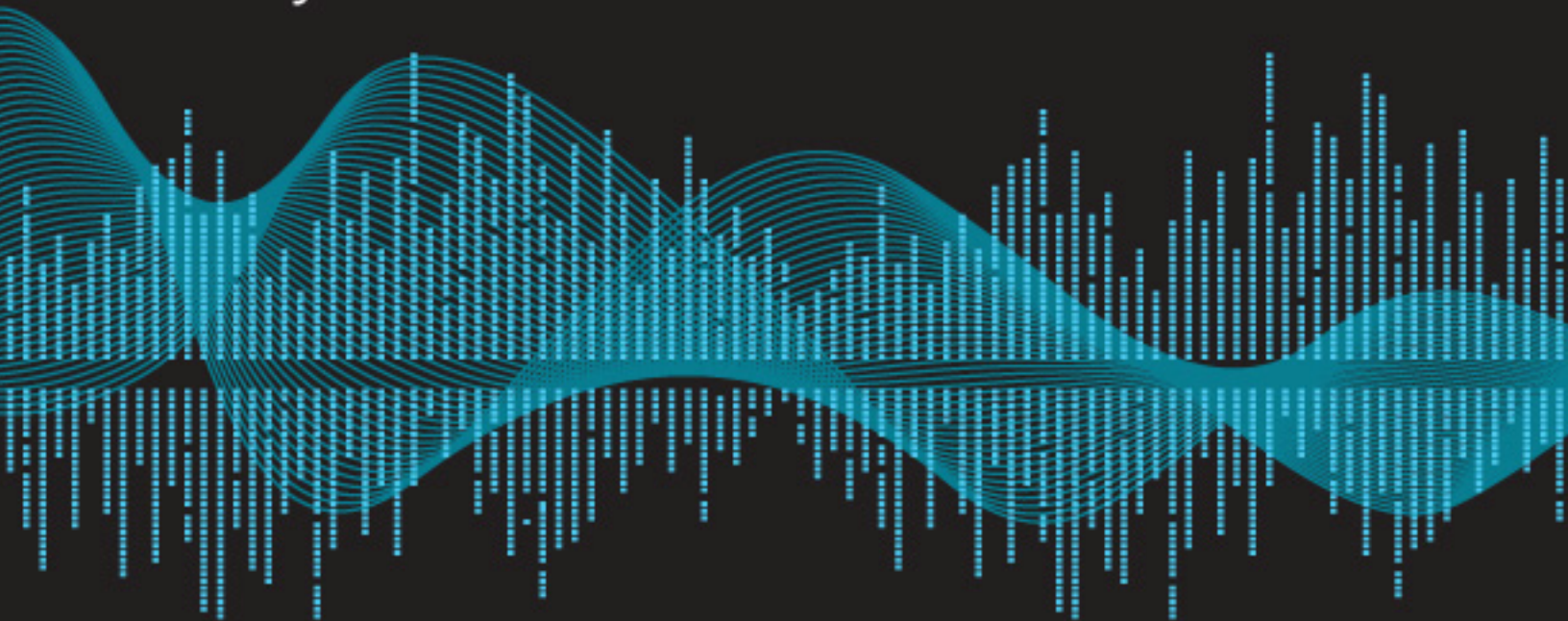
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Technology Awareness Program

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.



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

Black Family Network
www.blackfamilynet.net

La Familia Network
www.lafamilianet.net

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04.22.09 – Growing **IT** Special Interest Groups



**Visit us in Booth 146
@ Spring's Main Event**

On Wednesday, April 22, 2009 the OSDBU Procurement Conference opens as a national conference fostering business partnerships between the Federal Government, its Prime Contractors, HBCU/MIs, and small, minority, service-disabled veteran-owned, veteran-owned, HUBZone, and women-owned businesses. Participating BDPA sponsors, members, and community leaders will use this annual opportunity to network and develop industry-specific Special Interest Groups (SIGs) to expand chapter programs to communities within BDPA regions.

BDPA SIG overtones include growth areas such as High Performance Computing, Modeling & Simulation, Information Assurance, Robotics, and Web 2.0 technologies. Groups form within local BDPA Chapters to provide emerging technology support with professional development services for an entire region. To schedule a BDPA SIG event near you, visit our website at www.bdpa.org for meeting and event locations or call our national office in Largo, MD at **800.727.BDPA (2372)**. **bt**

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NAICS codes for IT Services:

541511 - Custom Computer Programming Services

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ARRA Notice | Visit www.grants.gov Recovery Act and System Alleviation Notice

Washington, DC—Due to the expected increase in system activity resulting from the American Recovery and Reinvestment Act of 2009, the Office of Management and Budget (OMB) has authorized steps to alleviate system strain and quickly increase system capacity. As part of this strategy, select programs may choose to use alternate systems to process grant applications during this heightened period of demand. As a result, once you have identified your grant opportunity, be sure to carefully read the instructions to ensure you are following proper submission procedures for that application, even if you have applied before. Note that Grants.gov will still be the one place to find all available federal grant opportunities. All opportunities posted on Grants.gov will include specific application instructions, including as appropriate, instructions for submitting applications outside of Grants.gov.

The following agencies will be accepting some or all applications outside of Grants.gov:

Corporation for National and Community Service (CNCS), Department of Defense (DOD), Department of Education (DOED), Department of Energy (DOE), Department of Housing and Urban Development (HUD), Department of Justice (DOJ), Department of Treasury, Department of Transportation (DOT), Environmental Protection Agency (EPA), National Air and Space Administration (NASA), the Department of Homeland Security (DHS), and the National Science Foundation (NSF). Please pay close attention to the grant announcements and application instructions for these agencies. Applicants for grant announcements offered by agencies using alternate systems should note that the Grants.gov Contact Center cannot address questions or issues relating to an alternate processing system. For assistance, applicants for these announcements should contact the designated official specified in the grant announcement and application instructions for the agency issuing the opportunity.

—bt

BDPA-DC Regional Technology Conference



June 19-20, 2009

- ✓ BSU Alumni Weekend
- ✓ Technology & Career Workshops
- ✓ Regional High School Computer Competition (HSCC)
- ✓ Regional IT Showcase
- ✓ Advanced Planning Briefing to Industry (APBI) for Fiscal Year 2010
 - Small Businesses and Entrepreneurs
- ✓ Advanced Planning Briefing to Interns (APBi) for Fall 2009
 - College and High School Students

Register Online by June 15
www.ncr-bdpa.org

For more information on BDPA, BDPA's academic, public, and private sector engagements, visit the organization's Groupsites enhanced by CollectiveX.
<http://bdpa.collectivex.com>



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.



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June 22-26, 2009

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www.teragrid.org

Launch a **TeraGrid SIG**
(Special Interest Group)
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Call BDPA or JEF today. Join or co-sponsor student teams **November, 14-20 2009** in Portland, Oregon during this year's Supercomputing Conference **SC09**. BDPA also seeks members interested in forming Supercomputing SIGs and a Portland, OR Chapter Interest Group.

1.800.727.BDPA
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High Performance Computing (HPC) and High School Computer Competition (HSCC) Opportunities for Youth

Washington—BDPA, participating BDPA chapters, and Joint Educational Facilities (JEF) have announced emerging technology opportunities for students. 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

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—In June 2008, 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.

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 this 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. **bt**



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.



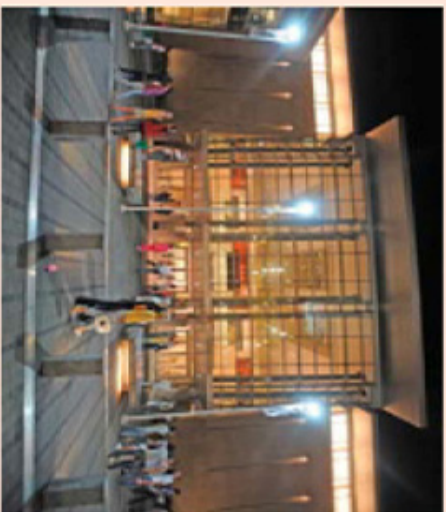
Now accepting enrollments from Junior and High School students for Summer and Fall 2009 sessions. For more information, call (202) 584-1898 to register as a student. Instructor-mentor, parent-student teams, JEF scholarships and internships with JEF also are available.

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

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

JEF | UNITED WAY Campaign: Write-Ins



Salisbury Street View of Raleigh Convention Center - photo by J. Moore

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Main Lobby
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2009 BDPA National Technology Conference

August 5 - 9



Shimmer Wall view at night - photo by Holly Jacques



Meet the 2009 Honorary Chairs



Charles Brandquist
VP, HR & Recruitment
Credit Suisse

Since 2004 Charles Brandquist has been instrumental in leading the growth and development of Credit Suisse's presence in the Research Triangle Park in Raleigh-Durham, North Carolina. Prior to joining Credit Suisse in 2002, Brandquist was a partner in a boutique executive search firm in New York specializing in the Investment Banking, Technology/Publishing, Advertising, and Insurance industries.



Marc Di Francisco
Founder & President
Premier Events
Management

Marc Di Francisco is founder and President of Premier Events Management, producers of The CIO Forum & Executive IT Summit. The CIO Forum & Executive IT Summit works with Regional Chapters of the Society for Information Managers (SIM) to administer programs approved by CIO's in each region.



Russ Mayer
Executive VP & CIO
GE Healthcare

Russ Mayer is the Executive Vice President and Chief Information Officer of GE Healthcare, a \$17B division of General Electric. GE Healthcare is the global leader in medical Diagnostic technology, information systems and Biosciences. Russ is a former Senior Vice President of Information Technology and Chief Quality Officer of NBC.



LaVerne H. Council
VP & CIO
Johnson & Johnson

LaVerne Council accepted her current position at Johnson & Johnson in 2006 as a proven thought leader with a demonstrated track record of achievement that includes a wealth of global experience in information technology, supply chain management, and business operations.



Leroy Hill
President
Yorel

Leroy Hill is President and Chief Executive Officer of Yorel Integrated Solutions, Inc., a company he founded in June 1993. Headquartered in Charlotte, NC, Yorel is a privately held company that works with customers to solve business problems through forward-looking IT optimization solutions.



Gail M. Roper
CIO - City of Austin, TX
Formerly CIO - City of Raleigh, NC

Gail M. Roper has over 25 years experience in the technology industry in the public and private sectors. Roper joined the City of Austin, TX as Chief Information Officer in February of 2009. She is affiliated with various technology organizations that focus on providing technology solutions for community based initiatives.



Martin Davis
VP & CIO
Wachovia Corporation

Martin Davis joined Wachovia in 1985, and has previously held several positions in the technology industry to include but not limited to CIO, Commercial Technology; Senior Technology Officer, Wealth Management; Senior Vice President and Group Executive, Information Services.



Cynthia Marshall
President
AT&T NC

Cynthia Marshall has 27 years of experience in the telecommunications industry, joining Pacific Bell in July 1981 as a Group Manager in Operator Services. After serving as Senior Vice President - Regulatory and Constituency Relations for AT&T California, she was named to her current position in January 2007.



Dr. Lenny Superville
Chairman & CEO
Infosysarchitecture

Dr. Lenny Superville is CEO of Infosys-architecture and has over 30 years of experience in information technology arena with a variety of clients including government, commercial and academic sectors. He formerly served as Certified Government CIO for North Carolina's Office of the State Auditor, and Senior Technology Advisor to the NC State Auditor.

Wednesday, 8/5

Opening Ceremony
Adult & Student Workshops

Thursday, 8/6

IT Showcase
Youth Technology Camps
Adult & Student Workshops

2009 BDPA National Technology Conference Events

Friday, 8/7

Technology Expo &
Career Fair
Adult & Student Workshops
Dignitaries' Reception



Saturday, 8/8

Golf Classic
Technology Expo &
Career Fair
Awards Gala

Sunday, 8/9

Prayer Breakfast

Note: BDPA Conference Events and Workshops will be held at the Raleigh Convention Center, Raleigh Marriott and Sheraton Hotels.

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 held last year in Atlanta, GA.

Call for Papers

Regional BDPA IT Showcase

Bowie State University | MD

June 19-20, 2009

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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 experiences or opportunities with you. 

Conference excerpts provided by *Electronic Village*

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Washington—The OSDBU Council is an informal organization of Federal small business program officials that comes together monthly to exchange and discuss information on acquisition methods, issues and strategies; small business program initiatives and processes; and small business related outreach events that permit their respective agencies to increase their utilization of small businesses as prime and subcontractors to meet their annual requirements for services and goods. The OSDBU Council is led by the Directors of the Federal OSDBUs who individually work closely with the U. S. Small Business Administration in the implementation of the Federal small business contracting programs. Each year the OSDBU Council convenes an OSDBU Directors' Procurement Conference which brings together small business owners and representatives, large corporations, and Federal small business officials from throughout the country. This year's conference will be held on Wednesday **April 22, 2009** (EARTH DAY) at the Dulles Expo Center (North Hall) in Chantilly, Virginia featuring procurement opportunities, teaming, and forecasts primarily in Public Sector. Visit: **www.osdbu.gov**



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:
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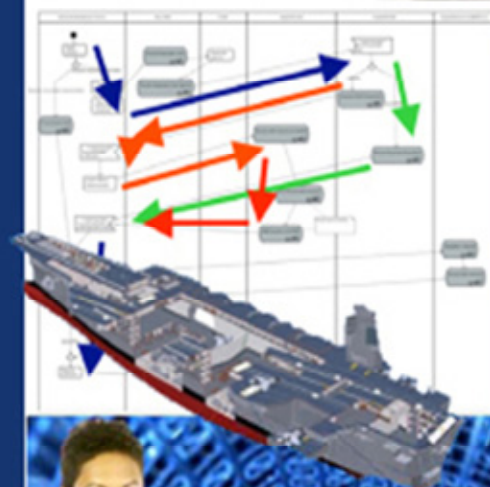
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- **Audit/Finance/Sales/Grants**
Invest in our *trillion-dollar* industry
- **IT Programs/Chapter Events**
Host *Interest Groups* and meetings
- **Membership/Services**
Source *non-IT* members for growth
- **Government Relations/Advocacy**
Track laws 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:

- CES 2009 (Las Vegas)
- America's new 111th Congress
- Inauguration of a new President
- Lotusphere 2009 (IBM | Orlando)
- Black Engineer of The Year Awards
- BDPA Day-On-The-Hill
- ITSMF Symposium and Gala (Dallas)
- SAPPHIRE 2009 (SAP | Orlando)
- FOSE 2009 (Washington)
- TeraGrid '09 (Washington)
- Regional HSCC Competitions
- National BDPA Technology Conference (Raleigh, NC)
- National IT Showcase (Students)
- National HSCC Competition (Youth)
- Legislative Conference (CBCF/ALC)
- BDPA @ HBCU Football Classics
- Supercomputing 2009 (Portland, OR)
- I/ITSEC 2009 (M&S | Orlando)
- 2009 BDPA Chapter Awards Galas

Corporate sponsorships and member discounts are available by joining a local BDPA Chapter:

www.bdpa.org

800.727.BDPA (2372)



Important Dates
Be sure to check the SC09 Call for Participation for important dates and deadlines. Visit SC09.org to download your SC09 CFP.

November 14-20, 2009
Oregon Convention Center
Portland, Oregon

Super.

© SC09

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 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 and promote economic development. **bt**



control of a robot by human thought alone. It does not require any physical movement such as pressing buttons. This technology will be further developed for the application to human-friendly products in the future by integrating it with intelligent technologies and/or robotic technologies.

During the human thought process, slight electrical current and blood flow change occur in the brain. The most important factor in the development of the BMI technology is the accuracy of measuring and analyzing these changes. The newly developed BMI technology uses EEG, which measures changes in electrical potential on the scalp, and NIRS, which measures changes in cerebral blood flow, with a newly developed information extraction technology which enables statistical processing of the complex information from these two types of sensors. As a result, it became possible to distinguish brain activities with high precision without any physical motion, but just human thought alone.

Honda is looking into the possibility of applying this technology to a people-friendly human interface through integration with other technologies such as artificial intelligence technologies and/or robotics technologies. In May 2006, Honda and ATR successfully developed a BMI technology which utilizes a fMRI scanner and achieved the first success in the world to control a robot hand by decoding brain activities without electrode array implants or special training of the user.

bt

Washington, DC—On Saturday March 21st, the joint Patriots Technology Training Center/Bowie High School sponsored robotics team took 1st Place in this Region's Championship. The US FIRST* Robotics competition was held at the United States Naval Academy (USNA) in Annapolis, Maryland from March 19-21. Team 1195 competed against 55 other teams from across the region and the dust settled they were crowned Regional Champions! Team "*New Age Chaos*", as they call themselves, also was awarded the "Judges Award". This unique award is given to the team that displays unique efforts, performance or dynamic merit recognition.

The next stop for the 35 member team is a trip to Atlanta, GA for the US FIRST Robotics National Championship tournament this month, April 14-17. The team is lead by Clay Wilson, Patriots parent volunteer, Terry Haynes, Bowie High School chair of the Engineering Department and host of parents and volunteers. This dynamic team has received support from BAE Systems, Booz Allen & Hamilton, NAVSEA, The United States Navy, H & B, and The National Society of Black Engineers.

For more information on Patriots Technology Training Center (PTTC), call (301) 925-9350 or visit their website at www.patriots-ttc.org.

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