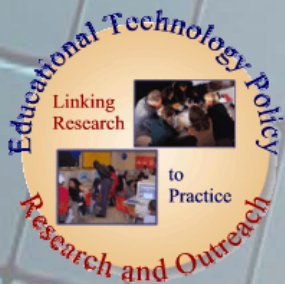


**Information Assurance -  
Information Security -Digital Forensics  
Career Preparation and Opportunity Workshop  
For Guidance Counselors  
& STEM Coordinators**

**Thursday, May 7, 2009  
9:00 am – 3:30 pm**

**National Electronics Museum  
1745 West Nursery Road Linthicum, Maryland**



***NORTHROP GRUMMAN***

**Organized by: Educational Technology Policy, Research, and Outreach  
[www.edtechpolicy.org](http://www.edtechpolicy.org)**



The Goals of the School Counselors Workshop are to:

- Increase counselor awareness of the workforce needs of the United States in IS/IA and related fields (digital forensics, homeland security, network security, systems administrator, cybersecurity)
- Inform counselors & STEM coordinators about career pathways including 2 and 4 year degree and/or certification tracks.
- Describe security clearance levels, and the process for obtaining them
- Increase counselor awareness about the Regional CyberWatch Center and its benefits to students and the future technology workforce.
- Share the connection between the CyberWATCH program and post-secondary success at partnering colleges and universities.

School counselors are critical in the career choices of students. This 1 day workshop will introduce counselors to IS/IA, Cybersecurity and Digital Forensics career opportunities, and choices within these categories, as well as, the multiple pathways to enter the workforce in these areas. Industry employers will speak to participants about career opportunities, student internships, externships and other related opportunities.

School counselors will learn about current and future career trends in IS/IA, receive updates and current promotional materials for distribution to interested students and parents, and discover how to use the CyberWATCH Regional Center Web site to find answers to questions from parents, students, and other educators.

Special for All Workshop Attendees  
Come to the October 1-2, 2009 C3 Conference FREE  
<http://www.edtechpolicy.org/C32009/>



## Educational Technology Policy, Research and Outreach Outreach- STEM Initiatives [www.edtechpolicy.org](http://www.edtechpolicy.org)

Dear Participants:

Educational Technology Policy, Research and Outreach (ETPRO) takes great pleasure in hosting its annual *Information Assurance/Information Security/Digital Forensics Career Preparation and Opportunity Workshops*. The core mission of the IA/IS/Cybersecurity workshop series is to increase counselor awareness of the workforce needs of the United States in IS/IA and related fields (digital forensics, homeland security, network security, systems administrator, cybersecurity), inform counselors about career pathways including 2 and 4 year degree and/or certification tracks and describe security clearance levels, and the process for obtaining them. This workshop will begin with an opening snapshot of the growing demand of workers in information security, and then move on to situate the requirement within the larger US context of the need for technology and engineering to help employee pipeline in the future. A panel will then share insight from the perspectives of large and small institutions and through the lens of diversity and opportunities for minorities and women. Information will be provided from large and small business entities about current and future job opportunities, and an Electronic Crimes Special Agent from the US Secret Service will share the connection to digital forensics opportunities through Criminal Justice career pathways and/or government agencies. We will conclude with help deciphering the various mazes of certification programs and talk about the security clearance process.

This workshop opportunity stems from the need to have educators and career counselors learn more about the growing need for IA/IS careers particularly in this geographic location. Indeed, the U.S. Bureau of Labor Statistics projects a 48 percent increase in jobs for computer software engineers and a 55 percent growth in jobs for network system and data communications analysts by 2014. Projections for Maryland mimic the same trend. While computer operators and computer programmers are projected to decrease, computer software engineers, network systems and data communications analysts, and network and computer systems administrators are projected to go up between 40 and 50%, and computer and information systems managers are projected to grow by 23%. Much of this is fueled by the growing IT industry, which is in particular demand in MD, DC, and VA, because of the large federal infrastructure including intelligence and Department of Defense government agencies and related contractors, and will be increased by upcoming BRAC movements to Ft. Meade and the Aberdeen Proving Ground.

At the closure of the workshop, we hope that each participant has left with new knowledge and insights into the opportunities for their students and the vast resources that will help students and parents understand these exciting career opportunities. We also hope participants will continue to take part in and share with parents and students other exciting events scheduled throughout the year, including: The Annual C3 (Cyberethics, Cybersafety and Cybersecurity) Conference, the *Cool Careers in Cybersecurity* program targeting Middle School girls, the *Young Scholars Mindtools Summer Program* for high school students, and the new After-School *Mindtools* Enrichment Programs.

Sincerely,

Davina Pruitt-Mentle, Ph.D.  
Director  
Educational Technology Policy, Research and Outreach  
Outreach - STEM Initiatives Division

ETPRO is committed to encouraging today's youth to expand their knowledge of science, technology, engineering and math (STEM) and 21st Century Skills. ETPRO's outreach STEM programs are designed to introduce or re-engage youth to STEM using culturally savvy, community connected activities, in an informal fun fashion while bridging informal activities to classroom content.

May 2009

**The Information Assurance/Information Security/Digital Forensics  
Career Preparation and Opportunity Workshop  
Agenda**

- 8:45 AM**            **Check In**
- 9:00 – 9:10 AM**    **Welcome**
- 9:10 – 10:00 AM**   **Background/Need:**  
                              Statistics from the Most Recent Intelligence Careers,  
                              Department of Labor Survey, and Global IS Workforce  
                              Study - *Lynn McNulty: (ISC)<sup>2</sup>*  
                              *"Information Security: A Growth Career"*
- 10:00 – 10:45 AM** **Public Safety & Homeland Security Practice: CyberWarfare**  
                              *Paul M. Joyal*  
                              Managing Director, National Strategies, Inc.
- 10:45 – 11:00 AM** **BREAK**
- 11:00 – NOON**      **Panel Discussion & Open Forum:**
- Two Year Pathway/Certificate Programs and Options
  - Four Year Track Programs
  - Promoting Women in STEM fields
- Panel Members:**  
*John Baker: JHU*  
*Spencer Berk: (Capitol)*  
*Jim Chen: (UMUC)*  
*Ken Crockett: (Capitol)*  
*Alana Johnson: (MAGiC/UMD)*  
*Sally Sullivan: (PGCC)*  
*Vini Nithianandam: (HCC)*
- 12:00 – 1:15 PM**   **Working Lunch/Speaker:**  
                              *G. Mark Hardy: President, National Security Corporation*
- 1:15 – 2:45 PM**    **Overview of Computer Crime and Digital Forensics:** (participants  
will break up into groups and rotate through)  
                              *Sean McDowell: US Secret Service*  
                              Tour of Museum & connection to IS/IA Careers
- 2:45 – 3:15 PM**    **Clearance Processes and Requirements:**  
                              *Tim Sullivan: DISA*
- 3:15 – 3:30 PM**    **Digital Reputation management**  
**CyberWATCH Regional Center Resources/Closure**  
**Briefing for Stipend Participants**

BIOGRAPHICAL SKETCHES  
In ALPHABETICAL ORDER

Information Assurance/Information Security/Digital Forensics  
Career Preparation and Opportunity Workshop

May 7, 2009

Educational Technology Policy, Research and Outreach  
CyberWATCH



**John Baker, Sr.** has spent the first 18 years of his career in the information technology industry, designing and developing information systems, and managing technology operations for a diverse set of organizations. These have included the World Bank, Lockheed Martin, Coopers and Lybrand, and Commercial Credit Corporation. In the last 20 years Mr. Baker has directed both the Graduate and Undergraduate Technology programs, and non-credit training offerings for the **Carey Business School at John Hopkins University**. Currently serving as Director for the program, he is responsible for designing, implementing and managing the School's Undergraduate Business and Technology degree programs. He has 24 years teaching experience at the university level.



The Carey Business School builds on the Johns Hopkins University tradition of excellence in practice and research with MBA programs in the Baltimore-Washington area, as well as master's degree and certificate programs, and undergraduate programs. <http://carey.jhu.edu/itsprograms/>

- **Organization:** The Carey Business School of Johns Hopkins University is one of nine schools within the Johns Hopkins University.
- **Accreditation:** Johns Hopkins University is fully accredited by the Middle States Association of Colleges and Universities, the accrediting body for all colleges and universities in the mid-Atlantic region.
- **Master's and certificate programs offered:** The Carey Business School offers flexible format MBA programs, as well as master's degrees in finance, real estate, information and telecommunications systems, organization development and human resources, and marketing. Certificates offered include the Leadership Development Program for Minority Managers, Investments, as well as other innovative graduate certificate programs.
- **Joint Programs offered:** The Carey Business School of Johns Hopkins University offers several specialized degree and certificate programs in conjunction with the School of Medicine (the Business of Medicine), the School of Nursing (MBA/Master of Science in Nursing), and the School of Arts and Sciences (MBA/Master of Science in Biotechnology, MBA/Master of Arts in Communication, MBA/Master of Arts in Government).





**Spencer Berk** is a 2006, University of Maryland-College Park graduate with a degree in Art History. Not wanting to leave the academic world, he joined Capitol College as an Admissions Counselor. As an undergrad student, he experienced the tremendous whirlwind of changing academic majors; from what he has learned, he enjoys helping students plan their academic careers.

### **Capitol College**

Capitol College fills a unique niche through a program that integrates scientific theory with hands-on experience. The curriculum is designed so students gain practical knowledge, ensuring they are immediately prepared for their professional careers. All undergraduate programs are enriched by liberal arts courses that provide every student with an enhanced sense of self and society. The college has been designated a National Center of Academic Excellence in Information Assurance Education by the Department of Homeland Security and the National Security Agency and operates the Space Operations Institute as a partnership with NASA.

- Undergraduate students come from 11 states and several foreign countries, ranging in age from 17 to 58. Fifty-eight percent of Capitol undergraduates are ethnic and racial minorities.
- Faculty members are recognized in their fields and are well-connected to the industry. With small classes and a 12:1 student-to-faculty ratio, students can interact closely with instructors. Students get individualized attention early and often.
- Programs of Study - Capitol offers bachelor of science degrees in 12 undergraduate areas of study and six master's degrees. All majors are in the areas of engineering, computer science, information technology and business. All of the master's degrees are available online using software that delivers live, real-time audio lectures.

Capitol College is accredited to confer bachelor of science (BS) degrees in astronomical engineering, business administration, computer engineering, computer science, electrical engineering, information assurance, management of information technology, software engineering and software and Internet applications. The BS programs in business administration and management of information technology are fully accredited by the International Assembly for Collegiate Business Education. The college is also authorized to confer master of science (MS) degrees in computer science, electrical engineering, information assurance, information and telecommunications systems management and Internet engineering and master of business administration (MBA) degree.



University of Maryland University College

**Jim Chen** is Professor and Program Director of Information Assurance in



the Department of Information and Technology Systems in the Graduate School of Management & Technology at the **University of Maryland University College**. He is also in charge of the Network Systems and Security Laboratory, which he created in 2002.

Dr. Chen received his Ph.D. degree from the University of Maryland at College Park in 1996. He received the Graduate Certificate of Information Assurance and Security, Information Assurance Education from Purdue University in 2004. This program was sponsored by the National Security Agency. Dr. Chen received the Certificate of Leadership and Management Development Program from the University of Maryland University College in 2006.

After joining the faculty at the University of Maryland University College in 1997, he has taught graduate courses in network and Internet security, intrusion detection and intrusion prevention, computer and network forensics, enterprise continuity and information assurance, data communications, telecommunications, networking, and network management, and Internet technologies. He has also taught a doctoral course in enterprise continuity and information assurance in addition to serving as chair of a doctoral dissertation committee and member in several doctoral dissertation committees. Since 2006, he has been managing the Graduate Information Assurance Specialization, which was re-certified by the National Security Agency as a National Center of Academic Excellence in Information Assurance Education.

Dr. Chen has received several awards in teaching. In April 2008, he received the prestigious University System of Maryland (USM) Board of Regents' Faculty Award in Teaching. In October 2008, he received the University Continuing Education Association (UCEA) Mid-Atlantic Region Outstanding Faculty Award. In April 2009, he received the University Continuing Education (UCEA) Association-Wide Excellence in Teaching Award.



**Kenneth Crockett** serves as Director of **Capitol College's** Critical Infrastructures and Cyber Protection

Center. He is a results-oriented higher education administrator with extensive experience delivering services and providing operational support to students, faculty, and executive leaders. Ken has proven leadership in program development, enrollment management, academic and career advising, marketing and recruiting, and admissions.



He began his career in higher education at the University of Maryland University College (UMUC), where he remained for six years providing exceptional customer service to working professionals seeking advanced degrees and certificates. UMUC provided him with an excellent introduction to continuing education operations through exposure to all aspects of planning, managing, and delivering academic degree and training programs to diverse client groups at multiple locations.

In 1997, Ken was hired by Capitol College to help grow the graduate curricula and transform the student service model to accommodate on-line learning. Ken was directly involved in supporting efforts to develop what was then Capitol's proprietary on-line course delivery software, launched in the summer of 1998. In 2000/2001, Ken played an important support role in helping to develop and launch the nation's first full master's degree program in network security. Since then, he has been responsible for managing unprecedented enrollment growth while providing thorough and responsive services to students and faculty. Between 2007-2009, Ken served in two academic leadership positions (interim), where he managed and mentored faculty, directed degree and course content initiatives, and continued to ensure effective delivery of programs and services – most of which in the department of information assurance.

**G. Mark Hardy, CISSP, CISM, CISA**, is the President of the **National Security Corporation**. He has been providing information security expertise to government, military, and commercial clients for over 25 years. A long-standing industry veteran, he is a perennial speaker at major industry trade shows. As president of National Security Corporation, he directs the efforts of the information security consulting firm he founded in 1988.



Mr. Hardy's professional background includes information security planning and policy development, managing security assessment and penetration teams, data encryption and authentication (including "breaking" commercial cryptographic algorithms), software development and strategic planning for e-commerce, and writing commercial risk assessment software. He has developed information security plans for four U.S. Military commands, and wrote the communications security encryption requirements for an experimental military satellite program.

Mr. Hardy is the author of over one hundred presentations and articles on information security. He presents dozens of security seminars and speeches each year, and is popular for his entertaining and informative style. He serves on the Advisory Board of CyberWATCH, a National Science Foundation funded consortium of universities, government agencies, and businesses. He is a Captain in the United States Navy Reserve, and has been privileged to serve in command eight times. His current assignment is Deputy Commander, Navy Region Mid-Atlantic Reserve Component Command. In addition, he is the national President of the Naval Reserve Association, a non-profit military service organization.

He is the author of the Information Security Handbook for Enterprise Computing, Client/Server Security Handbook, a contributing author to Network Security Secrets, and has provided pre-publication review for a number of security books, including Bruce Schneier's Secrets and Lies, and Winn Schwartau's Time-Based Security. Mr. Hardy has served on three ANSI committees (X9F, X9E9, and X12) writing security standards for financial and e-commerce industries. A graduate of Northwestern University, Mr. Hardy holds a BS in Computer Science, a BA in Mathematics, a Masters in Business Administration, and is designated as a Certified Information Systems Security Professional (CISSP), a Certified Information Security Manager (CISM), and a Certified Information Systems Auditor (CISA).





**Alana Johnson** is Coordinator for the Recruitment and Outreach efforts of the Women in Engineering Program (WIE) at the **University of Maryland’s Clark School of Engineering**. Her primary responsibility is to increase



young women’s awareness of and exposure to engineering, facilitating higher enrollment levels in the Clark School. In this capacity, Ms. Johnson establishes and nurtures relationships with elementary and secondary school administrators, teachers and students and executes a variety of precollege programs working with professional engineers and Clark

School faculty. Johnson also serves on the leadership team of MAGiC, the Mid-Atlantic Girls Collaborative, a regional extension of the National Girls Collaborative Project. Prior to this role, Johnson was a Project Manager for the Eastman Kodak Company in Rochester, NY. As a PM, Johnson worked with the team responsible for the market release campaigns of all digital cameras in North America. Prior to that, she worked in Research and Development prototyping, testing and commercializing products and applications. Johnson also volunteered as a Kodak Recruiter and served on the executive committee of a Kodak Employee Network. Johnson earned a bachelor’s of science degree in computer engineering from the University of Pittsburgh and is pursuing a master’s in business administration degree from the Robert H. Smith School of Business at the University of Maryland.

**MAGiC**

The Mid-Atlantic Girls Collaborative (MAGiC) connects girl serving and supporting organizations across Maryland, Virginia, and Washington, DC that are committed to increasing the number of young women pursuing science, technology, engineering, and math (STEM) careers. MAGiC is the local collaborative of the National Girls Collaborative, an initiative funded by the National Girls Collaborative.



**Women in Engineering Program**

The Women in Engineering Program at the University of Maryland is focused on the recruitment, retention and advancement of women in the field of engineering. Established in 1995 through a grant from the Sloan Foundation, WIE provides outreach to educate k-12 students about engineering and offers a variety of retention programs including mentoring, experiential opportunities, and a living and learning community to retain current engineering students.



**Paul M. Joyal** is managing director for **NSI’s** Public Safety and Homeland Security Sector, and directs the law enforcement and public safety practice.



Currently, Mr. Joyal serves on the Prince Georges County Law Enforcement Task Force and Governor Martin O’Malley transition team for Public Safety. Mr. Joyal was elected and currently serves as the president of the State of Maryland

Chapter of the FBI InfraGard and was recently selected as delegate for the State of Maryland at the annual national InfraGard conference. Mr Joyal serves on the GOVSEC, government security conference and CyberWATCH Advisory Boards.

In 1998, Mr. Joyal represented the Georgian Government before the U.S. Congress and Departments as its first lobbyist. Mr. Joyal also served as expert advisor to the Security and Defense Committee of the Georgian Parliament and the Chairman of the National Security Council and Minister of Defense. He is the recipient of the Georgian government's highest civilian award, "The Order of Honor" for his service promoting Georgian independence, security and integration with the West. Prior, Mr. Joyal held the position of operations director for Remington Elsas Law Enforcement Systems in its national rollout.

In 1991, Paul founded his own company Intercon International USA Inc. and established joint ventures in telecommunications with AT&T and air transportation (Caucasus Airlines) in Russia and Georgia respectively. As editor-in-chief of Intercon's Daily Report on Russia and the former Soviet Republics, Mr. Joyal published a daily intelligence newsletter for ten years and offered a range of consultation services to a number of Fortune 100 firms pursuing opportunities in the former Soviet Union, Turkey and Iraq.

Mr. Joyal has expertise in business development with law enforcement and national security entities nationwide and served as a federal law enforcement officer and as director of security for the United States Senate Select Committee on Intelligence from 1980 to 1989.

Paul is a frequent commentator on ex-Soviet Union, counter-terrorism and intelligence affairs for BBC, ABC, NBC, Dateline, Nightline, Cross Fire, TIME, Newsweek and other media outlets. Recently, he was featured in the award nominated NBC Dateline program in February of 2007, "Who Killed Alexander Litvinenko—Death of a Secret Agent." Mr. Joyal's professional associations include the International Chief's of Police Association; the American Society for Industrial Security International; and the FBI's InfraGard organization. He has been a featured speaker in the GovSec convention in May of 2007, presenting "Net Centric Public Safety, How Technology and Intelligence methods are changing Law Enforcement Management and Operations for Homeland Security." and in April 2008 "The Threat of State Sponsored Terrorism."

Mr. Joyal received a Masters Degree in International Relations from Catholic University. He was recognized as one of principal leadership awardees by the Respect for Law Alliance along with Attorney General Michael B. Mulkasey and NYPD Police Commissioner Raymond W. Kelly, with the Golden Eagle Award, "Defender of Counterintelligence and Homeland Security."

**Sean McDowell** serves as an Electronic Crimes Special Agent. He received his BS in science with a minor in Spanish from Pennsylvania State University and his MBA from the University of Baltimore, focusing on International Business. He also has 10 years Military Reserve service in Army and Navy and has served 6 years as a Special Agent, U.S. Secret Service (3 years as a Computer Forensics Technician).



**Lynn McNulty, CISSP** is an independent information security consultant at **McNulty and Associates**. He provides government affairs, business development, information security policy and program management consulting services to private and public sector clients. Mr. McNulty is also associated with McConnell International, a business development and sales assistance firm that specializes in the civil agency market.

He serves as the Director of Government Affairs for the **International Information Systems Security Certification Consortium (ISC)<sup>2</sup>**. He also represents the Information Systems Security Association (ISSA) on the Executive Board of the Information Technology Sector Coordinating Committee—one of the industry sector specific councils established by the Department of Homeland Security to implement the private/public cooperation model for protecting the nation’s critical infrastructure components.

In March of 2005, he was appointed to the Information Systems Security and Privacy Advisory Board, established under the provisions of the Federal Information Security Management Act. This body advises the Director of the Office of Management and Budget, the Secretary of Commerce and appropriate Congressional committees of emerging issues that impact the security of federal information systems and the protection of personal information resident on these systems.

Mr. McNulty retired from the federal government in May of 1995. He spent most of his thirty-two year government career working in the information security field at a variety of agencies.

He is a native of Oakland California, and graduated from the Berkley campus of the University of California with a Bachelor in Political Science. He also received a Master of Arts in International Relations from San Jose State University, San Jose, California, and a Master of Science in Administration from the George Washington University in Washington, DC.

Mr. McNulty is a Certified Information Systems Security Professional (CISSP) and served on the Board of Directors of (ISC)<sup>2</sup>, the governing body for the CISSP certification program from 1998 to 2005. He is the Co-Chair of the (ISC)<sup>2</sup> Government Advisory Board, and serves and the Consortium’s Director of Government Affairs. He was awarded the “Industry Citation” at the 2007 meeting of the Colloquium for Information Systems Security Education in recognition to his contributions to the field in information security, and was recently inducted into the ISSA “Hall of Fame”.



**Vini Nithianandam**

**Education:** Electrical Engineering Guindy, Chennai, India  
M.S in Electronics, University of Scranton, Pa

**Position:** **Howard Community College** 1989-Present  
Professor of Computer Support Technology;  
Co-director of Computer Forensics program

**Awards:** 2007 - HCC Outstanding Faculty of the Year  
2002 - HCC Outstanding Faculty of the Year  
2002 - Outstanding Educator, Howard County Chamber of Commerce

**Experience:** Taught information technology courses for the past 20 years in academia and in business organization and has numerous IT certifications in the field. Teaching computer forensics courses for the past three years at Howard Community College. Taken the following training related to computer forensics, network intrusion, Cell phone and Hand held devices forensics and Ethical Hacking from Guidance Software, Access Data, Paraben, CyberWatch, CCE boot camp and NTI and have CCE( Certified Computer Examiner) certification.



**Computer Forensics Program - Howard Community College**

The computer forensics courses at Howard Community College (HCC) fulfill requirements for both the Criminal Justice Degree option and the Information Technology program. The computer forensics series allows students to conduct forensic investigations, forensically preserve electronic evidence, and examine electronic drives and media formats with modern computer forensic software tools such as Encase, FTK, Win Hex, and NTI which emphasize developing practical competencies in working with computer file systems; learning how electronic data is stored, manipulated, retrieved, and deleted; basic encryption file systems; using basic password recovery tools; tracking and recovering forensic data from the Internet, examining cell phones and PDA's, handling privileged and confidential communications; examining email account and windows system artifacts; and implementing the computer forensic process in a networked environment.



**Sally Sullivan** is a professor of Computer Information Systems at Prince George's Community College. After earning a Master of Arts degree in English and teaching English for a number of years, she became interested in personal computers in the 1980's. This interest led her to pursue education in Computer Information Systems and earn an Associate of Applied Science in Computer Management from PGCC. At that time, learning to program in Cobol was still cutting-edge.

Since then, she has worked as a corporate personal productivity software trainer, a database developer and, since 1994, a full time professor at PGCC. In that position, she teaches a variety of courses, including computer literacy, operating systems, software applications, database management, Security+ and C++. She also coordinates the department's computer literacy course, lately helping to emphasize security and ethical issues. She recently began serving as CyberWATCH project manager. She earned a Master's degree in Management Information

Systems from Bowie State University in 2004 and in 2007 a graduate certificate from Capitol College in Security Management, her new field of focus. In June, 2007, she became a CISSP (Certified Information Systems Security Professional).

**The Prince Georges Community College Computer Information Systems Department** offers quality instruction through comprehensive degree and certificate options in the areas of programming, computer networking, Web technology, and systems engineering/analysis. It also provides opportunities for all students at the college to gain technology fluency through its general education offering, Computer Literacy. CIS faculty facilitate innovative learning experiences that equip students with the technical and problem-solving competencies required to obtain employment in the computer industry or continue education at a four-year institution. In addition, the faculty work diligently to create partnerships with local technology employers and are active participants in private and government technology initiatives to ensure currency in both instructional methods and curricula. The department also provides student support mechanisms and dynamic programs that foster retention.

<http://academic.pgcc.edu/cios/mission.htm>



**Tim Sullivan** is the Chief of Security for the **Defense Information Systems Agency** and is responsible for providing core security service support operations, developing and providing oversight for policy pertaining to traditional special security programs.

His duties also include management and security oversight of the planned construction project under the Base Realignment and Closure (BRAC) initiatives.



Tim retired from the United States Air Force where he served in various security functions and disciplines, to include postings as an Adjudicator, Special Security Officer, and a tour in the Intelligence Community. Tim has been with DISA since April 2003 and served as the DISA Chief, Special Security Office, Chief, Security Operations, and was promoted to his current position in July 2006.



**Davina Pruitt-Mentle** a researcher and policy analyst at Educational Technology Policy Research & Outreach, has worked in the field of STEM education & educational research since 1990. She holds a PhD from the University of Maryland in educational technology policy and has spent over 9 years conducting research on K12 cyberethics, safety and security awareness programs, & developing programs to help increase the IS/IA workforce pipeline. Davina's educational experiences include research and program evaluation, project management, presentation delivery, and teacher workshop/college course design and

instruction. She has also been instrumental in developing ETPRO's K-12 STEM Outreach model which introduces or re-engages youth to STEM using culturally savvy, community connected activities, in an informal fun fashion while bridging informal activities to classroom content. She



serves as K12 PI for the NSF funded CyberWATCH Center, PI for the CyberWATCH/UMD Digital Forensics Lab, PI of the MD BRAC (Base Realignment and Closure) –EIS-C MD grant & serves on numerous Task Force/Advisory Boards including NCSA, CLICKS, and the MD ED Technology Advisory Board.

Her research and development interests have focused on constructivist learning and teaching via technology, through her Young Scholars Mindtools Program, Digital Fluency curriculum and professional development through gaming theory. The Mindtools Program provides a means for students to explore technology applications essential to college success while also focusing on career possibilities that connect engineering, science, math and technology. Critical need areas are emphasized such as IT/IA/IS and digital forensics with a special focus on exposing students to the plethora of career opportunities in cybersecurity. A main research initiative looks at technology as an empowerment vehicle by investigating the meaning of technology in the lives of minority students with specific focus on recent Hispanic immigrants.

She has served as faculty lecturer within the College of Education at UMCP since 2001. She served as Director of Educational Technology Outreach within the College of Education at UMCP from 2001-2007. Before joining the College, she taught Chemistry (general through AP) at Oxon Hill High School in Prince George's County, Wheaton High School in Montgomery County, and Charles County Community College, Montgomery College and Central Virginia Community College. She also worked as a contractor in the Fuels Science Division at the Naval Research Laboratory. She has acted as consultant to a number of technology and education-related organizations, and has authored and presented at numerous national, regional and state conferences. Her PhD dissertation at UM in Educational Policy: *Community and Educational Opportunity in the U.S.: The Relative Utility of Technology and Digital Literacy in a Transcultural Community*.

**George H. Walls III** is Director of Admissions at Capitol College. With 10 years experience in college marketing/consulting and 7 in College Admissions/Enrollment Management, George Walls has navigated every facet of the college search and application process. Over the years, he has presented workshops and motivational speeches to students, families and educators to inform them of the strategies and inside perspective necessary for a success full college and scholarship search.



A Gulf War veteran of the U.S. Army from 1989-1993 as a Signal Communications Circuit Controller, he has worked in the technology fields of fiber-optic and satellite communications systems. After graduating from North Carolina Central University with a BA in Visual Communications, he began a college events and marketing consultancy in Raleigh, NC working with clients such as Duke, UNC Chapel Hill, NC State and the CIAA athletic conference.

Moving into college admissions in 2002, he has focused on student advocacy issues for underrepresented populations in Illinois, Ohio, Michigan, Virginia, Maryland and DC. He has enjoyed tenure at Albion College as Coordinator for Multicultural Recruitment, Trinity University as Associate Director of Admissions and now enjoys his current position as Director of Admissions and Recruitment at Capitol College in Laurel, Maryland.

The Information Assurance -Information Security -Digital Forensics Career Preparation and Opportunity Workshop for Guidance Counselors was organized by:



Educational Technology Policy, Research, and Outreach

with support from



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Professional Development  
After-school Enrichment Programs

Davina Pruitt-Mentle, Ph.D. ♦

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