

critical infrastructures and  
cyber protection center

**Capitol College**

**The Centers of Excellence**

space science  
education and  
public outreach

space operations  
institute

innovation and  
leadership institute



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CAPITOL COLLEGE

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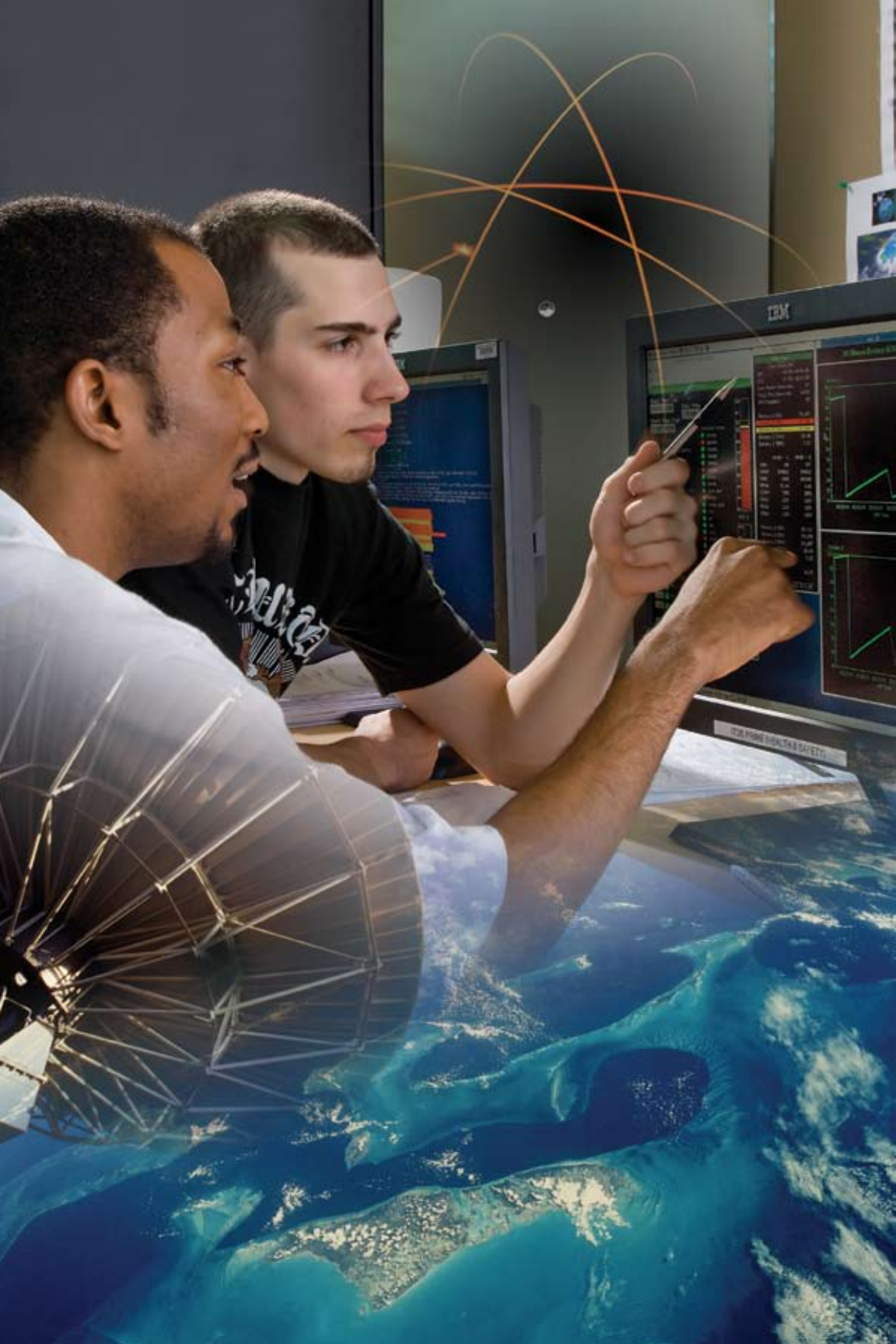


How will  
**Capitol College**  
meet the country's needs...

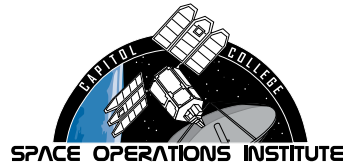


Capitol College has a vision, mandated by industry leaders, government officials, and education policy makers, to answer the call to provide a new generation of engineers and technology professionals who have higher levels of innovation and leadership in order to ensure the national workforce is competitive in **science, technology, engineering, and mathematics** along with business.

STEM education  
**cyber security**  
space science education  
**innovative leadership**



# space operations institute



The Space Operations Institute, established at Capitol College in 2002 with a grant from the National Aeronautics and Space Administration, is a consortium of NASA, industry, government and education partners. The Institute combines the infrastructure necessary to manage satellite operations with an educational program that prepares students for careers in all aspects of space mission operations. SOI builds upon Capitol's established engineering foundation and works closely with NASA to understand the aerospace industry's changing skill requirements.

- Full-time students enrolled in one of Capitol's engineering disciplines may apply for NASA and industry sponsored co-op positions as early as their freshman year.
- SOI co-op students work in one of the NASA satellite control centers or development labs to gain practical experience that supplements their academic learning.
- SOI students often work at NASA Goddard Space Flight Center, just down the road from campus.
- Having experience at SOI is like having a passport into the small, exclusive world of highly qualified aerospace professionals.


## \$2 Million in Industry-Leading Satellite Software

Analytical Graphics, Inc.'s (AGI) Educational Alliance Program provided a gift-in-kind contribution of 20 educational software licenses in early September 2009 to Capitol College, valued at over \$2 million, which provides faculty the opportunity to introduce a new dimension to the astronautical engineering curriculum by giving students hands-on experience with the industry-leading satellite software product.

To partner with the  
Space Operations Institute,  
visit: [www.capitol-college.edu/soi](http://www.capitol-college.edu/soi)  
email: [soi@capitol-college.edu](mailto:soi@capitol-college.edu)



Pictured: Dr. W. Victor Maconachy, vice president for academics; Brigadier General Peter C. Hinz; Dr. Michael T. Wood, president; and Dr. Michael G. Gibbs, vice president for advancement

 Business Operations

# innovation and leadership institute

With a mission to respond to both the regional and national need for developing students with the technical leadership skills for careers in private industry and government, the Innovation and Leadership Institute draws upon the resources of the Schools of Business and Information Sciences and Engineering and Computer Science to act as an interactive forum for actively studying the current challenges of the national technical workforce, and for developing state-of-the-art programs for both the professional enlightenment and instruction of our nation's technical leaders.

The ILI will achieve its vision of educating Capitol graduates who have the experience and knowledge needed to succeed and flourish in our global economy by:

- Hosting government and business leaders to teach and mentor students
- Fostering a climate for innovation and leadership development
- Offering cutting-edge degree and certificate programs
- Bringing together the most influential minds in engineering, information assurance, computer science and business for President's Forum lecture series

To partner with the  
Innovation and Leadership Institute,  
visit: [www.capitol-college.edu/ili](http://www.capitol-college.edu/ili)  
email: [ili@capitol-college.edu](mailto:ili@capitol-college.edu)

## “The Meaning of Leadership”

ILI President's Forum hosted Brigadier General Peter C. Hinz (pictured left), the assistant division commander – Support, 29th Infantry Division and chief of staff to the adjutant general for Maryland.

From a military perspective, General Hinz recounted acts of leadership from the annals of American history, citing those 21- and 22-year-old men who had the weight of the country on their shoulders in 1962, the beginning of the Vietnam War.

“Military leadership is no different from leadership in academics, society and family,” said General Hinz. “This student body is at the forefront of change, and difficult times are the true test of leaders. Your accomplishments today mean you already have leadership skills, so I challenge you to take up the mantle of leadership in your life.”





# critical infrastructures and cyber protection center

The Critical Infrastructures and Cyber Protection Center addresses the technical and managerial needs of the information assurance workforce, particularly working professionals who do not desire or have the resources to participate in formal degree-bearing academic programs. CICPC programs provide the Information Assurance (IA) professional, or those seeking to enter the IA workforce, with technical skills training, focused professional development, certifications in various specialty areas, and examination review opportunities for individuals and organizations seeking industry recognized security certifications.



CICPC program offerings include:

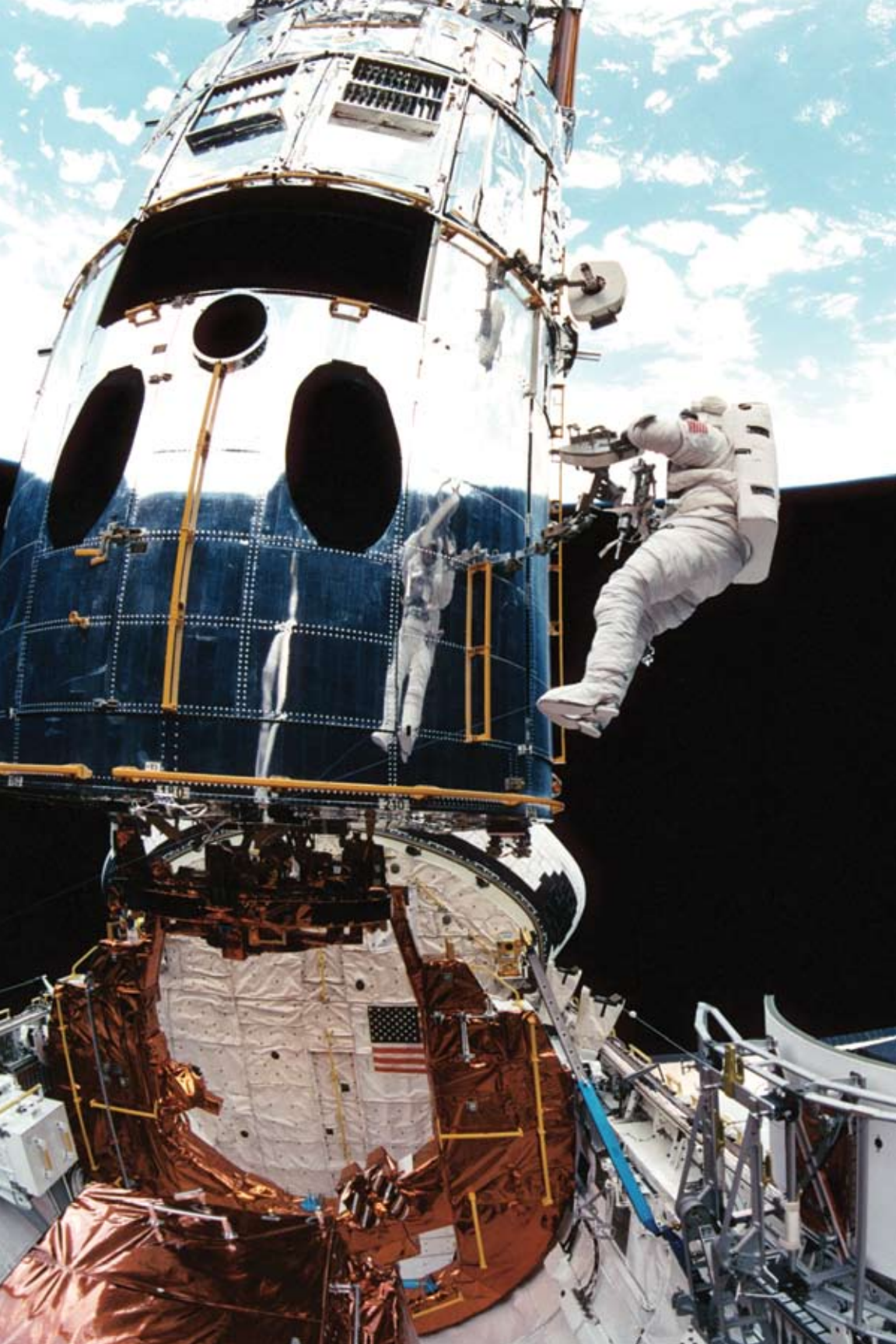
- Industry certification preparation (CISSP, SSCP, Security+, IdM)
- Certification and accreditation certificate tailored for government, DoD, or the commercial sector
- FISMA compliance certificate
- National information assurance training standards certificates
- Digital forensics certificate
- System life cycle security testing and evaluation certificate

Capitol College is a DHS/NSA nationally designated Center of Academic Excellence in Information Assurance Education.

To partner with the Critical Infrastructures  
and Cyber Protection Center,

visit: [www.capitol-college.edu/cicpc](http://www.capitol-college.edu/cicpc)

email: [cicpc@capitol-college.edu](mailto:cicpc@capitol-college.edu)



# center for space science education and public outreach

The Center for Space Science Education and Public Outreach provides hands-on education and workforce development experiences for students in K-12, community colleges, colleges or universities and those who support them in achieving leadership careers in the science, technology, engineering and math (STEM) fields.

The Center's vision is to assist in educating and developing the future leaders of the STEM career fields through utilizing space science, astronomy and other related areas of study at Capitol College to engage students of all ages.

Working at the local, regional, and national levels, the Center will:

- Assist the Capitol College Space Operations Institute in fulfilling their mission
- Provide hands-on educational experiences for middle school, high school, community college, and college students to both introduce them to the STEM fields and continue to expand their interest in these fields as possible career choices.
- Provide leadership development opportunities, in conjunction with the Innovation and Leadership Institute, to enable students to be future leaders within the STEM fields.
- Support the dissemination of information regarding STEM workforce and leadership opportunities.

## Fellows

Tom Bagg  
Dean Helen Barker  
Mike Bennett  
Melinda Bunnell-Rhyne  
Dr. Chuck Conner  
Dr. Michael G. Gibbs  
Assoc. Prof. Andrew Mehri  
Dr. M. Jean Russell  
Dr. Ashit Sanyal  
Dianne Veenstra  
George Walls  
Assoc. Prof. Angela Walters

To partner with the Center for Space Science  
Education and Public Outreach,

visit: [www.capitol-college.edu/ssep0](http://www.capitol-college.edu/ssep0)

email: [ssep0@capitol-college.edu](mailto:ssep0@capitol-college.edu)



Partner with the  
Centers of Excellence at  
**Capitol College**



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