

Welcome to the 2021 Palmetto Cyber Defense Competition



The Naval Information Warfare Center (NIWC) Atlantic, the Navy's East Coast Engineering Center, in collaboration with the South Carolina Lowcountry Chapter of the Armed Forces Communications Electronics Association (AFCEA) facilitates a cyber defense competition each spring. The goal is to energize high schools, colleges, and their students to focus on the development of technical skills in the area of networking and cyber security. Pro Day teams use the event for workforce development/training, recruitment and the challenge of competing in the cyber arena

During the competition, participants from each team form Blue Teams of six competitors that are responsible for operating the Palmetto County Digital Cooperative. The cooperative will provide IT staff & services to a number of small businesses including network connectivity, cybersecurity and updated technology. Each of the teams is provided with a mal-configured cooperative business network at the start of the competition and are challenged to properly reconfigure the network, add new services, and respond to additional requirements; all the while defending against a Red Team of Naval Information Warfare Center (NIWC) Atlantic and industry volunteers attempting to disrupt and penetrate their network.

Teams are scored for accomplishing administrative and business tasks while maintaining network/service availability, such as mail, database and web servers, as well as their ability to detect and respond to cyber threats. Teams must also be able to respond to business requests such as the addition or removal of services, and balance security needs against business needs.

The 2021 PCDC will be virtual. Teams will be operating their networks from remote locations using Amazon Web Services Workspaces. The Microsoft Teams collaboration tool will be used for text, audio and video communications during the event.

New this year: The Southeast Region Collegiate Hack Warz® @ PCDC Competition will be held on Saturday, 17 April and will also be virtual. Up to twenty teams will be competing in Hack Warz® South Carolina High Schools will compete on 17 April, colleges on 18 April (including the US Navy Academy and cyber security professionals from DoD, academia and industry will compete on 19 April. The 2021 PCDC participants are:

South Carolina Colleges and Universities	South Carolina High Schools
<ul style="list-style-type: none"> University of South Carolina Charleston Southern University College of Charleston United States Naval Academy Horry Georgetown Technical College Trident Technical College ECPI University The Citadel Clemson University 	<ul style="list-style-type: none"> Academy for the Arts, Science & Technology, Myrtle Beach Porter Gaud, Charleston Home School Network Palmetto Scholars Academy, North Charleston South Aiken ROTC, Aiken SC Governor's School for Science for Science & Mathematics Hanahan High School Wando High School, Mount Pleasant

Professional Day Participants – DoD

- US Naval Facilities Engineering Command
- Navy Cyber Defense Operations Command

Corporate

- SAIC
- Dominion Energy
- SRC
- ECS

The competition, awards, scholarships and prizes are made possible through the generous support of many industry and institutional sponsors and over 100 volunteers from NIWC Atlantic and the Armed Forces Communications and Electronics Association (AFCEA) South Carolina Lowcountry Chapter, as well as many cyber security industry supporters & volunteers both in South Carolina & throughout the United States. This is PCDC's eight year. PCDC continues to draw the best cyber security talent amongst South Carolina high schools and colleges to the competition. Jeff Sweeney, a Division Head at NIWC Atlantic, serves as the Director of PCDC. Jennifer Greenwell is President and Greg Blackburn is the PCDC Lead for AFCEA

2021 PCDC Schedule of Events

Follow us on twitter @palmettocyber, and <https://www.facebook.com/PalmettoCyberDefenseCompetition>

Saturday, 17 April, PCDC High School Competition, SE Collegiate Hack Warz® @ PCDC

7:45 A.M. – 8:15 A.M.	Connectivity Checks (PCDC Network & MS Teams)
8:15 A.M. – 8:30 A.M.	Blue Teams Briefing/Opening Ceremony
8:30 A.M. – 10:00 A.M.	Competition begins/Initial Injects/Secure the Network
8:30 A.M. – 8:50 A.M.	Hack Warz continuity checks
8:50 A.M. – 9:00 A.M.	Hack Warz opening ceremonies
9:00 A.M. – 2:30 P.M.	Hack Warz at PCDC competition
10:00 A.M. – 3:00 P.M.	Operate PCDC Network Under Hacker Attacks
3:00 P.M. – 3:05 P.M.	Break
3:05 P.M. – 3:25 P.M.	Red Team Q&A with Blue Teams
3:25 P.M. – 3:35 P.M.	Break
3:35 P.M. – 4:15 P.M.	Blue Team Presentations
4:15 P.M. – 4:25 P.M.	Gold Team Debrief: Common Mistakes
4:22 P.M. – 4:35 P.M.	Speaker: Greg Lancaster, Dept Head, acting, Fleet C4I Readiness
4:35 P.M. – 5:05 P.M.	Awards / Closing Ceremony (Hack Warz & PCDC)

Sunday, 18 April, Collegiate Competition

7:45 A.M. – 8:15 A.M.	Connectivity Checks (PCDC Network & MS Teams)
8:15 A.M. – 8:30 A.M.	Blue Teams Briefing/Opening Ceremony
8:30 A.M. – 9:00 A.M.	Competition begins/Initial Injects/Secure the Network
9:00 A.M. – 3:45 P.M.	Operate PCDC Network Under Hacker Attacks
3:45 P.M. – 3:50 P.M.	Break
3:50 P.M. – 4:05 P.M.	Red Team Q&A with Blue Teams
4:05 P.M. – 4:20 P.M.	Break – Upload Blue Team Briefs
4:20 P.M. – 4:45 P.M.	Blue Team Presentations
4:45 P.M. – 4:55 P.M.	Gold Team Debrief: Common Mistakes
4:55 P.M. – 5:10 P.M.	Speaker: Charles Onstott, SAIC CTO
5:10 P.M. – 5:30 P.M.	Awards / Closing Ceremony

Monday, 19 April, Pro Day Competition

7:45 A.M. – 8:15 A.M.	Connectivity Checks (PCDC Network & MS Teams)
8:15 A.M. – 8:30 A.M.	Blue Teams Briefing/Opening Ceremony
8:30 A.M. – 8:45 A.M.	Competition begins/Initial Injects/Secure the Network
8:45 A.M. – 4:00 P.M.	Operate PCDC Network Under Hacker Attacks
4:00 P.M. – 4:05 P.M.	Break
4:05 P.M. – 4:25 P.M.	Red Team Q&A with Blue Teams
4:25 P.M. – 4:35 P.M.	Break
4:35 P.M. – 5:10 P.M.	Blue Team Presentations
5:10 P.M. – 5:20 P.M.	Gold Team Debrief: Common Mistakes
5:20 P.M. – 5:35 P.M.	Keynote Speaker: Lt. Col. Saheba B Dehenre, USAF AMC 628CD/CC
5:35 P.M. – 5:50 P.M.	Awards / Closing Ceremony



Saturday Keynote Speaker: Greg Lancaster, Department Head, acting, Fleet C4I Readiness, Naval Information Warfare Center, Atlantic

Greg Lancaster oversees all business operations and project execution within the Navy C4I domain. The department manages \$1.3B per year within Integrated Produce Teams which execute over 130 projects to deliver engineered new C4ISR capabilities that give our Fleet and advantage over adversaries; installed C2, Intel, communications, Networks and Applications for the Fleet; integrated C4ISR systems into the Navy's newest and most advanced ships and submarines. Mr. Lancaster began his government career in 1995 as an electrical engineer working for the Naval In-service Engineering Command-East Coast. Mr. Lancaster served as the Lead Project Engineer of the SPAWAR Europe Office in Stuttgart, Germany from 2001 to 2003 where he worked on projects including network infrastructure design and installation and Internet access for MWR in Kosovo and Bosnia. Mr. Lancaster returned to Charleston in 2003 and worked on a variety of Cyber and Intelligence systems for the FBI, the Missile Defense Agency (MDA), DISA, and DHS. In 2005, Mr. Lancaster was promoted to the Head of the Special Intelligence Engineering Branch under the IW Div. In 2009, he served as Chief Engineer of the National Cyber Reconnaissance Systems Div. Mr. Lancaster was born in Charleston, SC. He received a Bachelor of Electrical Engineering from the Georgia Institute of Tech. In 2009, he received an MBA from the Citadel. In 2016, Mr. Lancaster completed the Senior Exec Fellows Program, Harvard University, JFK School of Gov't. Mr. Lancaster received the DoN's Meritorious Civilian Service Award in 2018.



**Sunday Keynote Speaker: Charles Onstott
SVP/Chief Technology Officer, SAIC**

Charles is a technology executive with over 20 years of experience overseeing organizational strategy, building high performance organizations, leading digital transformation, and M&A integration. Washington Executive's 2020 CTO of the Year and Founding Chairman of the Washington Executive CTO Council. Charles' specialties include Digital Transformation, Business Transformation, Emerging Technologies, Enterprise Architecture and Strategy, Information Technology, Cloud Computing, M&A Integration, Agile methodologies, Managed Services, Strategic Business Planning, Strategic Alliances, and Product Management.



**Monday Keynote Speaker: Lt. Col. Saheba B Dehenre,
USAF AMC 628CD/CC**

Lieutenant Colonel Saheba B. DeHenre is the Commander, 628th Communication Squadron, Joint Base Charleston, SC where she leads a squadron of over 80 airmen, sailors and DoD civilians who sustain a \$54 M networked weapons system supporting air, sea and ground transportation missions for 68 diverse organizations. Additionally, she is responsible the readiness of her squadron to support Air Mobility Command's mission of Global Reach America. Lt Col DeHenre received her commission from the University of Mississippi in 2005 where she earned a Bachelors of Science in Computer Science Engineering. Prior to this assignment she deployed in support of OPERATION ENSURING FREEDOM and served in positions at the wing, MAJCOM and Joint Task Force levels. Lt Col DeHenre has received the Defense Meritorious Service Medal; Meritorious Service Medal; Joint Commendation Medal; Air Force Commendation Medal; Air Force Achievement Medal; National Defense Service Medal; Afghanistan Campaign Service Medal; Global War On Terrorism Expeditionary Medal; Global War on Terrorism Service Medal; Nuclear Deterrence Medal and NATO Medal.

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