COMMISSIONER'S CACHE

As we wrap up another busy season of CyberCamps, we are thrilled with the reports we are receiving. All across the nation wonderful volunteers, sponsors, and others have led camps introducing beginning students to cybersecurity (and CyberPatriot!) and advanced students to the more challenging aspects of this great field. Thank you to everyone who has made this season the best in our history.

We are delighted to announce in this month's CyberSentinel the awarding of CyberPatriot Center of Excellence status to the Bay Area Community College Consortium. They join our other COEs as entities recognized for their commitment to promoting and growing CyberPatriot participation in their areas and for engaging the community in the program.

Elsewhere you will read about another nation joining with CyberPatriot in growing cyber talent worldwide: CyberTaipan our new partners "Down Under"! Welcome to our friends in Australia.

As always, CyberPatriot and its derivatives are doing amazing things. Thank you to our sponsors, led by Northrop Grumman Foundation, and for our coaches, mentors, parents, educators, and students for all you are doing to change lives.

Bernard K. Skoch | National Commissioner

DATES TO KNOW

AUG. 16	End of Exhibition Round 2
SEPT. 6	Training Round Begins
SEPT. ?	Sneak Preview Round TBD
OCT. 3	Team Registration Deadline

THANK YOU TO EVERYONE WHO PARTICIPATED IN THE 2018 AFA CYBERCAMPS!

Camp coordinators — Please be on the lookout for our post-camp survey email. We'd love to get your feedback to improve the program for next summer!

ATC Virginia Beach

EXHIBITION ROUND 2 UNDERWAY — TECH SPECS UPDATED FOR COMPETITION

Exhibition Round 2 is underway until Aug.16. The round consists of a Windows 10 and an Ubuntu 14 image. All registered Coaches have or will receive an email with the Exhibition Round download links and instructions. Competitors do not have to be registered. Unlike competition rounds, Coaches and Mentors may train on the Exhibition Round images to familiarize themselves with the competition. Answers are not provided for the Exhibition Round.

The Training Round runs Sept. 6 - Oct. 4. Images will be provided to teams that represent the image types competitors will see during the competition. Answer keys will be provided for the images.

New Image Player and Tech Specs

VMware Workstation Player 14.1.2 is the new competition standard. Most computers made during and after 2011 should be able to play this season's competition images. Teams should **test** their host computers with Workstation Player 14.1.2 during the Exhibition Round. If you have player compatibility issues, please see the technical specifications webpage at http://uscyberpatriot.org/competition/technical-specifications.

Below are the new specifications.

- **64-Bit Processors (made 2011 and after)**
  Intel: 64-bit, i3 or better

OR AMD: 64-bit "Bulldozer" or better

- **Virtual Technology**: Host computers must have virtual technology extensions (e.g., VT, Vx) ENABLED in BIOS
- **RAM**. 8 GB of RAM. (4 GB of RAM will run images, but may have performance issues)
- **Disk Space**. 40 GB of free disk space

Competition Notes

- **Cisco NetAcad** credentials and courseware will be released in September.
- **Sneak Preview** will be held on a Saturday in September for four hours only.
- **Practice Round** will be held in October to allow teams to practice their procedures.
- **Schedule** available at uscyberpatriot.org

BAY AREA COMMUNITY COLLEGE CONSORTIUM EARNS CYBERPATRIOT CENTER

The CyberPatriot Program Office is excited to welcome the Bay Area Community College Consortium as its newest CyberPatriot Center of Excellence!

CyberPatriot established the Center of Excellence program in 2011, and has since then recognized 13 other entities – Los Angeles Unified School District, the City of San Antonio, Spokane Public Schools, Rose State College (Okla.), Fairfax County Public Schools (Va.), STEMspark East Tennessee Innovation Hub, Huntsville City Schools (Ala.), Lee's Summit R-7 School District (Mo.), SoCal Cybersecurity Community College Consortium, Elk Grove Unified School District (Calif.), and Red Bank Regional High School District (NJ), Midwest CISSE Chapter (Mich.), and Securing Our eCity Foundation (Calif.).

The Bay Area Community College Consortium (BACCC) is comprised of the 28 colleges surrounding the San Francisco and Monterey Bays. Funded by the Carl D. Perkins Vocational and Technical Education Act of 1998, the BACCC's goal is to develop pathways to success in cybersecurity for K-12 students, focusing on building ethical, technical, and soft skills through the AFA's CyberPatriot national cyber defense competition, camps, and more.

Through the Western Academy Support and Training Center (WASTC), the consortium provides professional development for all participating teachers, college students, parents, and community partners to become coaches, mentors, or active supporters developing their cybersecurity skills. BACCC is proudly partnered with Cisco Systems – a longtime CyberPatriot sponsor - as its main industry contact. Cisco has provided the consortium with venues, support, training and advisement.

Through its efforts beginning in 2015, BACCC has introduced 13 high schools and middle schools to CyberPatriot, with participation in both the competition and camps. It also distributed and showcased CyberPatriot's Elementary School Cyber Education Initiative during career exploration days at local elementary schools for grades 4-6, providing students and parents copies of the program. For the upcoming school year BACCC plans to work more closely with a few pilot elementary schools to offer the content in a manner similar to its technical mentoring program.

For more information on the Bay Area Community College Consortium and CyberPatriot's Center of Excellence program, visit http://uscyberpatriot.org/about/centers-of-excellence.

Coaches' Corner

- **CyberPatriot XI Registration is OPEN.** All coaches who plan on participating in the CyberPatriot XI competition season (2017-18) must re-create their teams for the season. CP-X rosters have been removed from the dashboard. You will be assigned a new team number for the CP-XI season upon re-registering. Click here for registration instructions.

- **Exhibition Rounds.** Exhibition Round images will be sent to registered CyberPatriot XI coaches. The current Exhibition Round ends Aug. 16. Students do not need to be registered in order to participate in an Exhibition Round, nor do team fees need to be paid. Coaches must delete all images once the round is over.

- **Sneak Preview.** The four-hour Sneak Preview will be held on a Saturday in mid-to –late September.

SPOTLIGHT: CYBERTAIPAN INTRODUCED IN AUSTRALIA

Northrop Grumman Expands Youth Cyber Education Program into Australia with CyberTaipan

Honorable Angus Taylor MP, Minister for Law Enforcement and Cyber Security announced the program at a US embassy ceremony

CANBERRA, Australia – Northrop Grumman Corporation has introduced CyberTaipan, a national cyber defense competition for Australian youth designed to encourage interest in technical fields. The Hon Angus Taylor MP, Minister for Law Enforcement and Cyber Security announced the program in a ceremony at the U.S. Embassy in Canberra, hosted by U.S. Chargé d'Affaires James Carouso.

The objective of CyberTaipan is to attract Australian students, years 7-12, to pursue education and careers in cyber security and other science, technology, engineering and mathematics (STEM) disciplines. CyberTaipan, modelled on the successful U.S. Air Force Association's CyberPatriot program, is presented by the Northrop Grumman Foundation in partnership with AustCyber (the Australian Cyber Security Growth Network).

"CyberTaipan is designed to help Australian youth develop a range of skills that will carry forward through higher education and careers critical to our nation's future. This program has seen great success globally, and we are excited to be launching it in Australia today," said Ian Irving, chief executive, Northrop Grumman Australia.

Since its inception in 2009, the CyberPatriot program has had a proven, significant impact on more than 100,000 student participants in the U.S. In the last five years, Northrop Grumman has expanded the program globally into the U.K. and Saudi Arabia. With the support of local delivery partner AustCyber, this program is now also available to Australian youth.

"The U.S. and Australia are already steadfast cyber security partners. Our democratic principles drive us to maintain the integrity of the systems we rely on. I can't think of a better way to face our cyber security challenges than with programs such as CyberTaipan that harness the best of our private and public sectors with the creative problem-solving skills of young minds," said Carouso.

Also at the launch were a group of students from Lake Tuggeranong College, who will participate in the 2018-19 competition.

For more information on CyberTaipan, email challenges@austcyber.com.

Ian Irving, Chief Executive, Northrop Grumman Australia (top photo) and Diane Miller, Director, Global Cyber Education and Workforce Development Northrop Grumman US (bottom photo) at the launch of CyberTaipan at the U.S. Embassy in Canberra.

Source: https://news.northropgrumman.com/news/releases/northrop-grumman-expands-youth-cyber-education-program-into-australia-with-cybertaipan

The World Cup: A Growing Arena for Cyberattacks - By Caroline Jok, CyberPatriot Intern

In the September 2017 edition of CyberSentinel, we included a segment written by Trent Briscoe on cyber security and tennis, specifically the Wimbledon tournament. Tennis isn't the only sport that deals with cyber threats. In fact, global sporting events have morphed into open fields for cyber attackers to target players, fans, countries, and the tournaments themselves.

During the 2018 Winter Olympics, cybersecurity firm Cisco Systems Inc reported a cyberattack that was meant to disrupt the opening ceremonies. The malware, now known as "Olympic Destroyer," took the Olympic website offline, disabled Wi-Fi being used by reporters, downed broadcasting drones and created a myriad of other issues.

This summer, while most of the world watches to see who will win the World Cup in Russia, cybersecurity professionals are striving to keep players, the fans, and their countries safe, and make sure that the tournament runs smoothly. One of the most popular cyberthreats is low-hanging fruit: phishing campaigns. Billions of emails are being sent and finding their way into unsuspecting fans inboxes using branding from the World Cup, FIFA, and sponsors to increase their appeal.

Other cyberthreats during the games include cyber criminals targeting officials and players for sensitive information, attacks on broadcasting networks, siphoning credit card data from local businesses, disruption of government websites, and more. Overall, the biggest vulnerability is network and information security. No matter how hard Event Officials work to prevent cyber-attacks, it's important that fans remain vigilant and do their part in protecting their personal information.

DID YOU KNOW???

- **Cyber crime damage costs will hit $6 trillion annually by 2021 will exceed $1 trillion from 2017-2021**

- **Cybersecurity Ventures predicts there will be 3.5 million cybersecurity job openings by 2021**

- **The human attack surface will likely reach 6 billion people by 2022.** As the world goes digital, humans have moved ahead of machines as the top target for cyber criminals. There were 3.8 billion internet users in 2017 (51 percent of the world's population of 7 billion), up from 2 billion in 2015

CyberPatriot participants... the world needs you!

Source: https://cybersecurityventures.com/

THIS MONTH IN CYBER HISTORY

August 28, 1991 — In August of 2018, the first email was sent from outer space. Using a Mac Portable aboard the Space Shuttle Atlantis, the first e-mail from space was sent to Earth. Two astronauts on the spacecraft, James Adamson and Shannon Lucid, wrote, "Hello Earth! Greetings from the STS-43 Crew. This is the first AppleLink from space. Having a GREAT time, wish you were here,...send cryo and RCS! Hasta la vista, baby,...we'll be back!" The message was transmitted to the Johnson Space Center in Houston, Texas.

For more information, visit:
http://www.computerhistory.org/tdih/Aug/28/