



The CyberSentinel

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Commissioner's Cache

CyberPatriot VI is here! Round 1 is coming your way November 15-17. This season's competition will be bigger and better than ever, with a record 1,562 teams registered. New this season: Sunday competition windows, an online scoreboard, digital forensics challenges, and Linux in the qualification rounds, Cisco networking in the Semifinals, the Regional Recognition Round, and—to add an additional challenge—all images and tasks are to be completed in ONE six-hour period per round. A huge "Thank you!" to our Coaches and Mentors. CyberPatriot could not exist without you. A special thanks to our Presenting Sponsor, the Northrop Grumman Foundation, and our other sponsors for their generous and continued support of CyberPatriot. Be sure to check out the CyberPatriot VI Rules Book, Chapter 5, for changes to the competition rules. Look for your greatly enhanced competitor kits before the end of November. Have you got what it takes? I am sure you do. Let the competition begin!

Bernard K. Skoch
Commissioner
CyberPatriot
Air Force Association



Program Office Bits

CP-VI Coach registration is now closed. Coaches should finalize their team rosters by Nov. 14.

Sign on to www.uscyberpatriot.org and then go to your team page on the right side of the homepage.

Follow us at www.facebook.com/CyberPatriot and @CyberPatriot on Twitter



Students from Scobee Middle School celebrate their victory in the San Antonio Middle School Pilot Program competition. They pose here with Ryne Smith from CyberPatriot, Joe Sanchez from CyberStar and Joulis Webb from UTSA Pre-freshman Engineering Program in the back row. (Photo by Chris Cook.)

This Is It—Round 1 Begins November 15

The first scored round of CyberPatriot VI is almost here! All of the training over the past few months has led up to this point, as teams take their first steps towards the National Finals Competition. During a six consecutive-hour period from November 15-17, students will have their system administration skills tested on one Windows workstation and one Windows server image. The six-hour period begins when students open up their first image, so teamwork is extremely important to completing both images on time. Details on the round are below:

Three Competition Windows. To provide teams more opportunities to compete, this season's competition rounds span three days instead of two days as in past seasons. The competition windows are:

(All times are Eastern)
- Friday, Nov. 15: 9 a.m.—3 a.m. Saturday morning
- Saturday, Nov. 16: 8 a.m.—11:59 p.m.
- Sunday, Nov. 17: 10 a.m.—8 p.m.

One Competition Period. Teams will have only one competition period to complete their

tasks. A competition period is six consecutive hours. It begins when the first image is opened and ends the final image is closed. Teams exceeding six hours will be penalized. Teams may also be penalized for opening up multiple instances of the same image.

No Competition Window Survey. Coaches will no longer be required to fill out a survey to select their competition periods.

The CyberPatriot Program Office is happy to help teams prepare for the round. Coaches' Meetings will be held Nov. 12 and 13 to answer any last minute questions teams have. Additionally, CyberPatriot is now able to match fully registered Coaches and Mentors who are not located near each other to teach teams virtually. For more information on how to request or register for Virtual Mentorships, please email info@uscyberpatriot.org.

As a reminder, Round 1 scores will be combined with Round 2 scores to determine advancement to the Semifinals Round.

For more information on competition procedures, please see the CP-VI Rules Book on the Training Materials page of our website.

Features

Page

- 1 Commissioner's Cache
- 1 This Is It—Round 1 Begins November 15
- 2 Sponsor Profile: Embry-Riddle Aeronautical University
- 2 Coaches' Corner
- 3 Spotlight on Southern California
- 3 Become a Center of Excellence!
- 4 The United States Cyber Crime Conference 2014
- 4 This Month in Cyber History
- 4 Announcing the CP-VI Video Contest!

Days until Round 1:

14



Sponsor Profile: Embry-Riddle Aeronautical University

Embry-Riddle Aeronautical University has long been the leader in aviation, aerospace and security education, being named "The Harvard of the Skies" by *Time* magazine, holding the No. 1 ranking for Aerospace Engineering programs by *US News and World Report* for 13 straight years, and hosting the nation's premier global security and intelligence degree. In such industries, being in touch with industry and on the leading edge is essential—which is why Embry-Riddle's campus in Prescott, Arizona, launched its new bachelor of science in cyber intelligence and security this fall. Not surprisingly, the program has exceeded its enrollment projections and is poised for even further growth.

Embry-Riddle prides itself in small class sizes, state-of-the-art technology, access to professors, labs, and career oriented outcomes—such as just being named in the top one percent of US Universities with a documented million-dollar return on investment (earnings relative to cost of attendance). The new cyber intelligence and security major takes advantage of all these features, while adding new ones, including the Cyber Lab housing forensics software and hardware, isolated "Hacker Lab" to allow experimentation, and exciting internship and partnership opportunities with ACTRA, ACTIC, Infraguard, Raytheon, Sandia, JPL, and the FBI, among others.

Students will conduct hands-on learning in these state-of-the-art cybersecurity laboratories, learning how to protect vital national and corporate cyber resources. The program's interdisciplinary approach offers exposure to the entire spectrum of issues facing our cybersecurity: network and data best practices, economic and business risk/reward policies, regulatory environments, and the underlying science of digital and application architecture that can be exploited in our globally networked world of today.

You may already know that the US Department of Labor projects 22 percent growth for jobs in this field of study over the next 10 years. This means more than 50,000 new high paying jobs for young men and women prepared to meet one of the big challenges of this decade.

We read in the press almost daily of some company, government, or agency that has been compromised, breached, or subjected to some cyber exploitation. Our graduates will be playing a vital role in understanding, defending, and preparing solutions to meet the evolving threats to the critical economic and physical infrastructure of the globe. The trends tell us that the Internet and computers will play an even larger role in years to come.

"Cybersecurity will continue to be in the public eye as the global economy relies on the Internet," said Dr. Jon C. Haass, director of the Cyber Intelligence and Security Program. "Graduates of this program will be among the cyber elite required by government agencies and corporations to protect critical infrastructure and shape the cyber policy of the future."

Embry-Riddle is proud to sponsor CyberPatriot—both to help address this critical need for our nation's security and to support our mutual relationship with the Air Force. Did you know Embry-Riddle provides more Air Force officers and pilots through its ROTC program than anyone except the Air Force Academy? Now you do. If you are interested in learning more, please visit our website at Prescott.erau.edu and search "Cyber."



EMBRY-RIDDLE
AERONAUTICAL UNIVERSITY



Students at The Citadel express their enthusiasm when asked about mentoring a CyberPatriot team.

Coaches' Corner

- **CyberPatriot VI Participant Kits.** Participant kits will include a portfolio-style bag, CP-VI challenge coin, lapel pin, teal pen, USB drive, and participation certificate and will be shipped out to Coaches for distribution to Mentors and Competitors. T-shirts come in S-3XL sizes. All fully registered (approved and paid) Coaches will be sent a survey allowing them to provide updated shirt sizes for their team roster. Coaches who do not complete the survey by Nov. 14 will receive the shirt sizes entered during registration.
- **Finalizing Rosters.** All Coaches should finalize their team rosters by Nov. 14. Teams without rosters of two to 10 Competitors will be ineligible to compete in Round 1. To enter your roster:
 - Sign in to www.uscyberpatriot.org with your registered email address and password.
 - Go to the "My Teams" box on the right side of the homepage.
 - Click the "Team 06-XXXX" site link. (If this link does not appear, you have not been verified, been approved, or paid your team's fee.)
 - Fill out the form on the next page.
 - Coaches will need to repeat these steps if they have multiple teams.

Competitors do not need to be verified by their parent or guardian by November 14.

- **Online Coaches' and Mentors' Meetings.** This month's Coaches' Meetings are a great time to ask any questions about the competition before Round 1. The first two meetings will provide round details in a slideshow with a questions afterward. The third meeting will have a shorter slide presentation and focus on questions from participants of all experience levels. Information on joining these meetings will be emailed to all registered Coaches and Mentors in the coming week. Below is the November Meeting schedule.

- Nov. 12 —3:30 pm EDT/2:30 pm CDT/12:30 pm PDT
- Nov. 13 —4:30 pm EDT/3:30 pm CDT/1:30 pm PDT
- Nov. 13 —9:00 pm EDT/8:00 pm CDT/6:00 pm PDT

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Spotlight on Southern California

Carey Peck, Los Angeles Unified School District Beyond the Bell Program



Los Angeles (and surrounding area)

In the clear, beautiful morning of Saturday, October 12, teams from Southern California gathered for a special competition to jumpstart excitement for the CyberPatriot VI season. Though called CyberDay LA, the event drew teams from several counties surrounding Los Angeles to work on three images provided by the Air Force Association and California State University, Northridge.

Each year, Los Angeles Unified School District (LAUSD) CyberPatriot teams, coordinated locally by Harry Talbot of the district's Beyond the Bell program, have started their season with an intramural competition. This year, the competition was opened to teams from other schools. Dan Manson from California State Polytechnic University, Pomona, the competition venue, was instrumental in inviting other teams from the area to compete. Final turnout was phenomenal! Alongside 72 teams from LAUSD, there were teams from Redlands, Diamond Bar, Mira Mesa, Brea Linda, Henry J. Kaiser, and Troy high schools. The schools were placed into one of three categories – Beginner, Intermediate, or Advanced – based on their previous CyberPatriot experience. Additionally, 12 teams from LAUSD middle schools competed in the Beginner category.

Commissioner Skoch was on hand to greet the teams, and representatives from CISCO, Cal State Northridge, Cal State Dominguez Hills, and Cal Poly were also in attendance. The colleges are all academic partners of the Beyond the Bell teams and provide coaching and other services to the program. The Schriever Chapter of the AFA also provided a sponsorship, which was critical to the success of the event. Finally, two addi-

tional sponsors, Arey Jones and True Relig-Jeans, were on hand. Both contributed critically needed computers to the program.

The Beginner teams worked on only one Windows image provided by CyberPatriot, while Intermediate and Advanced teams each worked on two Windows images from CyberPatriot. Advanced teams had a third image from Cal State Northridge as well. With a three-hour window for competition, the teams stayed busy. A lunch break had been planned, but in order to maximize working time, it was folded into competition time. As such, it was important for the teams to manage their own schedule and pace. While a few teams solved all or most of the Northridge image, no team completed either of the CyberPatriot images.

At the end of the day, the big winners were Brea Olinda in the Beginner category, Lincoln #1 in Intermediate, and North Hollywood Azure leading the NoHo sweep of the Advanced category. Azure was not a total surprise: All five members went to the CyberPatriot National Finals Competition last season, and they are aiming to go back to D.C. in 2014. None of the middle school teams, for whom this was their first competition, showed up on the medal stand. However, they all put up a great showing, outscoring many of the high schools.

With the successful completion of this huge event, plans are already being discussed for next year. With a smooth technical rollout, seamless team registration, powerful hosting, solid venue support, and a lot of happy competitors and sponsors on hand, CyberDay LA will surely be even bigger and better next year.



Commissioner Skoch briefs Competitors before they take the stage at the CyberDay LA competition. The tremendous sponsors and supporters of the event also look on. (Photo by Beyond the Bell.)



Competitors work hard to complete the CyberDay LA images before the three-hour deadline. (Photo by Beyond the Bell.)

California and CyberPatriot: The Facts

<ul style="list-style-type: none"> • CP-V State Champions: <u>Open</u> North Hollywood High School—Gehring, North Hollywood <u>All Service</u> Fort Fisher Division—UNSCC, San Diego 	<ul style="list-style-type: none"> • Teams Per Season: - CyberPatriot II: 11 - CyberPatriot III: 68 - CyberPatriot IV: 145 - CyberPatriot V: 179 - CyberPatriot VI: 227 	<ul style="list-style-type: none"> • CP-III Third Place: Beach Cities Cadet Squadron—CAP, Torrance • CP-IV Open Division Third Place: Palos Verdes Peninsula High School, Rolling Hills Estates
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Become a Center of Excellence!

The Los Angeles Unified School District is one of four CyberPatriot Centers of Excellence (COE). The COE designation recognizes school districts, nonprofits, municipalities, and institutions of higher learning as leading STEM and cyber education institutions. COEs are eligible for piloting new CyberPatriot programs and receiving additional sponsor support, hardware and software grants, and scholarship opportunities. For more information on the program and how to apply, click [here](#).

Be advised that for-profit organizations, states, and individual schools and teams are not eligible for COE status.





Cyber Hunters: Faster People, Tools, and Processes

The US Cyber Crime Conference is pleased to support the National Finals of the CyberPatriot competition by providing the US Cyber Crime Conference's Digital Crime Scene Challenge. There will be three digital crime scenes for the CyberPatriot teams to process during the Finals, with results representing 10 percent of participant's final scores.

About the US Cyber Crime Conference

The US Cyber Crime Conference continues the 12-year tradition of success established by the former DOD Cyber Crime Conference. To keep pace with the global cyber threat, the conference is expanding its objective and direction to empower the civilian, defense, and government digital forensics communities and all Cyber hunters—attorneys, information assurance, systems administrators, and criminal investigators) to join forces in the battle against cyber crime.

The first US Cyber Crime Conference will take place at the National Conference Center in Leesburg, Virginia, 27 April - 2 May. We think the conference and training presented for 12 years in DOD is too critical and too important to be eliminated because of sequestration, ongoing budget issues, and furloughs. We have also expanded the scope and target audience from just DOD to students, academia, and private sector critical infrastructure owners and operators. CyberPatriot Commissioner Skoch is a member of our Advisory Board.

The agenda will highlight known leaders in the field of cyber hunting, as well as two days of hands-on digital forensics and information assurance training. Track sessions will include legal, law enforcement, counterintelligence, forensics, and information assurance.

Visit the Conference website at <http://www.USACyberCrime.com> for more information.

Speaking Opportunities at the US Cyber Crime Conference

If you are developing a practical solution to problems in cyber crime investigation and analysis, cyber incident response, digital forensics and analysis, legal problems, issues, or innovations, or problems related to infrastructure protection, we invite you to submit a presentation abstract for this year's conference. For more information, please visit the conference website at <http://www.USACyberCrime.com>.

Attend the US Cyber Crime Conference

CyberPatriot participants, Coaches, Mentors, and sponsors are encouraged to attend the 1st US Cyber Crime Conference and training event. We also welcome cyber professionals from law enforcement, counterintelligence, criminal and civil legal, forensic examination, government, private sector information assurance, and academic organizations, in addition to international partners.

Cyber Future Matchmaking

The 2014 US Cyber Crime Conference debuts the Cyber Future Matchmaking Program—a program that will facilitate relationships between cyber professionals, students, educators, recruiters, and government agencies. Are you looking for the company that will best utilize your expertise, or searching for a professional with a very unique skill set? This new program will assist in finding your perfect match! Additional information about the Cyber Future Matchmaking program is coming soon.

We hope to see you at the NEW US Cyber Crime Conference April 27 - May 2, 2014. Visit the conference website at <http://www.USACyberCrime.com> for more information.

This Month in Cyber History

November 5, 2006—Netcraft Ltd announces that the Internet contains over 100 million websites. Over 27 million sites were added in 2005 alone, due in large part to the popularity of free blogging services and sites for small businesses. Today, Netcraft counts over 760 million sites on the Internet, a significant increase over the 2006 numbers. This number does not do justice to the total number of *webpages*, however. Google indexes over 40 billion of those.

For more information go to:

<http://www.computerhistory.org/dih/November/5/>



Announcing the CP-VI Video Contest!

Beks Dalton, Outreach Coordinator (Ryne had a good run)

A new month means a new contest, and no... it will NOT be as easy as the October Twitter contest. Since teams are stepping up their training for Round 1, we felt it was only right that we step up our contests with a team VIDEO contest!

What do you have to do? Make a video (no more than three minutes) that shows why your CyberPatriot team is the best team out there! Sing, dance, do whatever—we want to see what it's like to be part of an elite CyberPatriot team.

How does it work?

- 1) Upload your video to YouTube.
- 2) Send the video link to info@uscypatriot.org, with subject line: #CPVI Video Contest. The deadline for video submissions is November 25.
- 3) We'll screen your video and post it on Twitter and Facebook!
- 4) CyberPatriot fans and followers will be able to vote on your video for a week, starting Nov. 25.

The prize? The Coach of the team with the highest-rated video will be awarded a \$100 Visa gift card that should be spent on a victory meal for the team! (Note: The winning team must tweet us a picture of the victory dinner—@CyberPatriot—or else we're going to have to ask for our money back.)

Presenting Sponsor

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