

# The National Finals Competition Special Edition

Air Force Association's

## CYBERPATRIOT

National High School Cyber Defense Competition

presented by **NORTHROP GRUMMAN**  
Foundation

Issue 0013  
March 2013



# The CyberSentinel

## Commissioner's Cache

The CyberPatriot V National Finals Competition is here! Our outstanding finalists will be locked in two days of intense competition March 14-16 at the Gaylord National Convention Center. The Network Security Competition will test the skills of our finalists against a red team of "attackers." Quick thinking and attention to detail will be put to the test in our new Cisco Networking Event as well. With all that, there will be time for fun and learning. We have a fun competitors' dinner planned with great door prizes donated generously by our sponsors. Individual competitors from different teams will sit together at the dinner. Our Presenting Sponsor, Northrop Grumman, along with Cisco, conduct mentoring sessions on career paths in the cyber field for the competitors. During the awards banquet, 13 awards will be presented for the top three All



(Continued on page 2.)

## Upcoming Events

- March 14-16 National Finals Competition (Washington, D.C.)
- April 1 CyberPatriot VI Registration Begins

*CyberPatriot IV, Open Division Champions: Alamo Academy, San Antonio, Texas. The team was awarded the President's Cup and received a \$12,000 scholarship check from Northrop Grumman.*



## New Events, Awards, and Scholarships at The National Finals Competition

The Washington, D.C., area will soon be the temporary home to 28 teams from the United States and Canada as they compete in the CyberPatriot V National Finals Competition. During March 14-16, 2013, the Gaylord National Convention Center, in Maryland, will host the 26 US teams in the All Service and Open Divisions and two Canadian teams in the International Exhibition. In addition to the competition's mainstay Network Security Event, powered by SAIC's CyberNEXS, the National Finals Competition will include Digital Forensics and Networking Events.

In the Digital Forensics Event, Competitors will decrypt and decode rogue files on their systems while competing in the Network Security Event. Competitors in the Networking Event will design, build, and secure a network in a

one-hour time limit. However, without our CyberPatriot sponsors, the competition would not be possible.

The Northrop Grumman Foundation is the Presenting Sponsor for this year's CyberPatriot National Finals Competition. Our Network Security Competition will be powered by CyberNEXS from the Science Applications International Corporation (SAIC). Additionally, SAIC will conduct the Digital Forensics Competition. Cisco Systems Incorporated will provide the competition network and conduct the Networking Competition. Splunk software will be used for the first time in the competition as a team system monitoring tool.

Formal competitor mentoring sessions will be conducted by the

Northrop Grumman Corporation, Cisco Systems, and other sponsors.

The competition administration of teams will be provided by Northrop Grumman, CyberPatriot Founding Partners, SAIC and the Center for Infrastructure Assurance and Security, and the University of Maryland, University Campus. For the Competitors' Dinner, our sponsors were gracious enough to provide door prizes that include:

- iPad Mini
- Ogio Computer Backpacks
- Digital Cameras

At the dinner, each competitor will receive a gift bag filled with useful gifts from our sponsors. The awards to be presented or announced at the Awards Banquet will include the:

- Cisco Networking Event Award

(Continued on Page 2.)

## Do you want a paid summer internship in Cyber Security?

Northrop Grumman offers paid internships for CyberPatriot Competitors. See page 8 and the link below for more information.

[www.northropgrumman.com/Careers/StudentsAndNewGrads/Pages/Cyberpatriot.aspx](http://www.northropgrumman.com/Careers/StudentsAndNewGrads/Pages/Cyberpatriot.aspx)

## Features

Page

- 1 New Events, Awards, and Scholarships at The National Finals Competition
- 2 Cisco Networking Event Makes Debut at The National Finals Competition
- 3 Open Division National Finalists
- 5 All Service Division National Finalists
- 8 Start your legacy now, join the Northrop Grumman Intern Program



• Air Force Association / CyberPatriot Program •  
• 1501 Lee Hwy Arlington, VA 22209 • [www.uscyberpatriot.org](http://www.uscyberpatriot.org) •

# The National Finals Competition Special Edition

The CyberSentinel / March 2013

## Cisco Networking Event Makes Debut at The National Finals Competition

As CyberPatriot continues to evolve into a more challenging and relevant competition, our sponsors step up to the challenge. New to The CyberPatriot National Finals Competition is the Cisco Networking Event. Cisco systems engineers will conduct the event. Three parts will comprise the event:

- Network Design and Subnetting
- Physical Wiring
- Network Configuration.

Cisco took a hands-on approach to preparing teams for the competition. Cisco systems engineer Steve Gyurindak was the lead for the competition preparation. With the backing of Cisco headquarters, he arranged for more than 20 systems engineers to meet and mentor each of the National Finalist Teams. Additionally, he held three WebEx teleconferences to explain the competition to Coaches and answer any questions and concerns they had.

Reaction to the mentorship was very positive. The Leilehua Hawaii Army Junior ROTC team

even invited their Cisco Mentor, Ryan Kido, to join them in a local television report on their team. Sandi Boyd, Coach for Alamo Academies, remarked about how helpful the team's Cisco Mentor, Chad Stewart, was when training the team on the Cisco Packet Tracer software and raved:

"It's great to have an outside mentor give  
(Continued on Page 7.)



Cisco Mentor Ryan Kido



Cisco Mentor Aaron Rodriguez (standing right) and the Marine Military Academy team

## New Events, Awards

(Continued from page 1.)

- International Exhibition Award
- Service JROTC Champions Awards
- Civil Air Patrol Champion Award
- US Naval Sea Cadet Corps Award
- Commander-in-Chief's Cup (All Service Division)
- President's Cup (Open Division)

Again, this year, the Northrop Grumman Foundation will award more than **\$50,000 in scholarships** to the top teams in the All Service and Open Divisions.

Teams that are part of the CyberPatriot National Finals Competition will be considered for their top state awards, followed by Semi-finalists, then participants in Round 3.5. Additionally, local honors may be bestowed on the national finalists by their schools, organizations, or communities.

## Commissioner's Cache

(Continued from page 1.)

Service and Open Division competitors, as well as the top International Exhibition, Civil Air Patrol, Naval Sea Cadet, and Junior ROTC teams. Two additional awards will be presented to the teams in each Division with the highest scores for the Cisco Networking Event. On March 14, the competitors will receive a briefing at the Northrop Grumman Corporation and tour Washington, D.C. We have a great schedule of events, and a great group of competitors. We wish every team could be here, but sadly that was just not possible. But we hope to see YOUR team at National Finals next year!

Bernard K. Skoch  
Commissioner  
CyberPatriot Program  
Air Force Association

## Team Logos

(Continued on page 8.)



**Publisher**  
Bernard K. Skoch

**Editor**  
Francis S. Zaborowski

**The CyberSentinel**  
**Assistant Editor**  
Ryne Smith

**CyberPatriot Program Office**  
1501 Lee Hwy Arlington, VA 22209  
[www.uscyberpatriot.org](http://www.uscyberpatriot.org) • E-mail: [info@uscyberpatriot.org](mailto:info@uscyberpatriot.org)



# The National Finals Competition Special Edition

The CyberSentinel / March 2013



## Open Division National Finalists



### Alamo Academies

**Location:** New Braunfels, TX  
**Coach:** Sandi Boyd

#### Team Members

Kenny Graves III  
Paul Hopson  
Stephen La Rosa  
Jason Mirch  
Cory Nichols  
Maggie Schmeltekopf

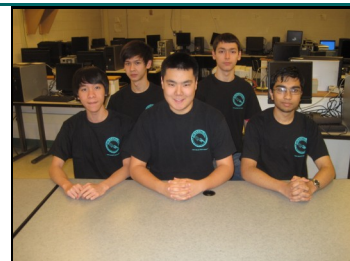


### Benjamin Franklin High School

**Location:** Los Angeles, CA  
**Coaches:** Yenny H. Yi and Dante Mabin

#### Team Members

Alvir Dela Cruz  
Alfonso Figueroa  
Patty Hernandez  
Bryan Sanchez  
Jasmine Talavera  
William Wong



### Chantilly Academy

**Location:** Chantilly, VA  
**Coach:** Joan Ozdogan

#### Team Members

Anirudh Bagde  
Weyland Chiang  
Chris Kim  
Brian Nguyen  
Timothy A. Rothschild



## Open Division National Finalists

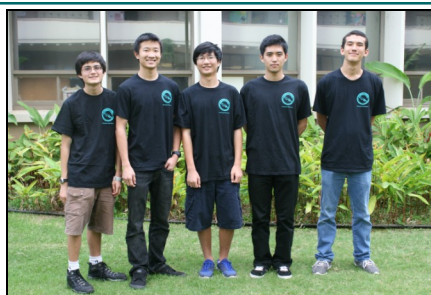


### Edward Roybal Learning Center

**Location:** Los Angeles, CA  
**Coach:** Will Diaz

#### Team Members

Jimmy Can  
Joseph Falcon  
Valeria Barrera  
Neel Patel  
Brian Sandoval



### 'Iolani School

**Location:** Honolulu, HI  
**Coach:** Lisa Miyamoto

#### Team Members

Arnold Chang  
Daniel Dai  
Korry Luke  
Roman Nasuti  
Kevin Suzuki



### Marshall Academy

**Location:** Falls Church, VA  
**Coach:** Shelli Carpenter

#### Team Members

Sepehr Ansari pour  
Charlie Franks  
Xhesi Galanxhi  
Peter Marr  
Alex Ryan  
Jacob Walters



*"The only way to get the youth interested in cyber security is to give them the resources to find the vulnerabilities."*

Tobias Sebastian, Edward Roybal Learning Center

*"Knowledge, discipline, dedication, teamwork and the pitfalls and joys of setting and achieving goals. These are all valuable lessons in life and the foundations of strong individuals whom we will look towards to being great leaders."*

Yenny H. Yi, Benjamin Franklin High School

# The National Finals Competition Special Edition

The CyberSentinel / March 2013



## Open Division National Finalists

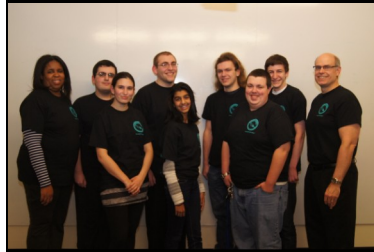
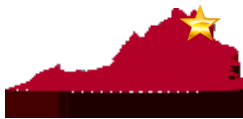


### Marshall Academy

**Location:** Falls Church  
**Coach:** Jason Simeon

#### Team Members

CJ Gardner  
Alex Handley  
Kevin Houk  
Jack Lynch  
Ramón Martinez-Díaz  
Peter Morrissey



### MIT Lincoln Laboratory

**Location:** Lexington, MA  
**Coach:** Chiamaka Porter

#### Team Members

Artur Arakelyan  
Pat Bowden  
Derek Chaplin  
Nick Cunningham  
Akshitha Ramachandran  
Matt Zenie



### North Hollywood High School

**Location:** North Hollywood, CA  
**Coach:** Yolanda Gardea

#### Team Members

Woojin Cheon  
Jenny Lu  
Dana Sirota  
Bryan Melgar Aguilar  
John Yoon



## Open Division National Finalists



### North Hollywood High School

**Location:** North Hollywood High School  
**Coach:** Jay Gehringer

#### Team Members

Patrick Chiapa  
Nathan Rower  
Jonathan Shuai



### Palos Verdes Peninsula High School

**Location:** Rolling Hills Estates, CA  
**Coach:** Greg Grenier

#### Team Members

Bethany Grenier  
Mathieu Kirkland  
Garrett Potvin  
Garrett Thomas  
Russell Wakugawa  
Janeline Wong



### Summit Technology Academy

**Location:** Lee's Summit, MO  
**Coach:** Lisa Oyler

#### Team Members

Elias Duckworth  
Brian Green  
Saige Mehl  
Kevin Schulmeister  
Keaton Thomson  
Ben Wolff



*"Not only are teams learning about cyber defense, they are learning to be leaders, better team players and communicators, but most of all, they are having fun."*

Chiamaka Porter, MIT Lincoln Laboratory

*"To be successful in CyberPatriot, students must integrate their technical and academic skills as they work together as a team to solve real world challenges."*

Jay Gehringer, North Hollywood High School



# The National Finals Competition Special Edition

The CyberSentinel / March 2013



## All Service Division National Finalists



### East Central High School

**Location:** San Antonio, TX  
**Coach:** Jasper Miller

#### Team Members

James-Cameron Harris  
Dane Freddie  
Christian R. Lopez  
Sebastian Ronco



### Leilehua High School

**Location:** Wahiawa, HI  
**Coach:** Nick J. Spiridigliozzi

#### Team Members

Seth Allen  
Michael J. Grajales  
Kawika Lavarias  
Sharon Thepsenavong  
David Williams



### Covington High School

**Location:** Covington, LA  
**Coach:** Doug Johnson

#### Team Members

Robert Crawford  
Zack Guillot  
Owen Langston  
J.T. Peters  
Ethan Van Sant



## All Service Division National Finalists



### Flour Bluff High School

**Location:** Corpus Christi, TX  
**Coach:** Armando R. Solis

#### Team Members

Colin O'Brien  
Josiah Anderson



### La Cueva High School

**Location:** Albuquerque, NM  
**Coach:** First Sergeant Alberto Griego

#### Team Members

Josh Cutler  
Matthew Mooneyham  
Tyler Morris  
Vyvian Nguyen  
Cassandra Suter  
Ryan Wooldridge



### Marine Military Academy

**Location:** Harlingen, TX  
**Coach:** William Beckman

#### Team Members

Dylan Che  
Drew Hopkins  
Daniil Murashov  
Jose Rodriguez  
Kyle Rogers



*"CyberPatriot is a great program, because it is providing the hands-on training that will ultimately lead to allowing these young men and women to be ready for whatever comes their way."*

Armando R. Solis, Flour Bluff High School

*"The CyberPatriot competition has provided my students an arena every bit as exciting as any sporting event. High fives, chest bumps and victory dances comparable to anything you've ever seen in an end zone, demonstrate the attitudes prevalent in this competition."*

Doug Johnson, Covington High School

# The National Finals Competition Special Edition

The CyberSentinel / March 2013



## All Service Division National Finalists



### Montachusett Regional Vocational Technical High School

**Location:** Fitchburg, MA  
**Coach:** Paul Jornet

#### Team Members

Catelyne Farrell  
Billy Ghio  
Brett Grant  
Jamison LaRoche  
Jack Marabello  
Connor Quick



### John Jay High School

**Location:** San Antonio, TX  
**Coach:** John Lopardi

#### Team Members

Tristan Crawford  
Brad Myers  
David Peterson  
Cedrik Ramos  
Cyrus Reyna  
Chaz Thomas



### Medina Valley High School

**Location:** Castroville, TX  
**Coach:** Robert Spracale

#### Team Members

Anthony Alvarado  
Estaban Elizondo  
Michael Hall  
Aydan Hamilton  
John Perez  
Jon Thronson



## All Service Division National Finalists



### Big Sioux Composite Squadron

**Location:** Brookings, SD  
**Coach:** Capt. Shannon Hofer

#### Team Members

Chris Dinnel  
Tyler Gross  
Joshua Klosterman  
Brianna Lynn  
Simon Pulscher  
James Skon



### Colorado Springs Cadet Squadron

**Location:** Colorado Springs, CO  
**Coach:** Bill Blatchley

#### Team Members

Kyle Fields  
Victor Griswold  
Darius Hines-Cross  
Carlin Idle  
Christopher Ottesen



### Youngstown ARS Composite Squadron

**Location:** Vienna, OH  
**Coach:** Paul Creed III

#### Team Members

Megan Beatty  
Sean Beatty  
Michael Gentile  
Brian Hunter  
Austen Peters  
Andrew Stoneburner



*"I am proud to say that our future is in good hands with this smart generation of young cadets who value our country's national security. These outstanding citizens are extremely enthusiastic about being valued members of the CyberPatriot world."*

John Lopardi, John Jay High School

*"In today's hyper-connected world, the security of all of the computing systems involved is critical to the nation's infrastructure and defense. CyberPatriot prepares the next generation for that defense."*

Paul Creed III, Youngstown ARS Composite Squadron



# The National Finals Competition Special Edition

The CyberSentinel / March 2013



## All Service Division National Finalists



### Fort Fisher Division

**Location:** San Diego, CA

**Coach:** Joe Gombos

#### Team Members

Alfonso Arana  
Emmanuel Crawford  
Todd Fuller  
Steven Strickland



### Valor Division

**Location:** Gardendale, AL

**Coach:** Kelly Jones

#### Team Members

Genevieve Breimhorst  
Allen Jones  
Isaac Lenox  
Jose Martinez



### Cisco Networking

(Continued from Page 2)

direction. [The competitors] listen!"

Kelly Jones, Coach of the Valor Division Team, was similarly impressed by her team's Cisco Mentor Lanier Millsap and his willingness to provide continued support: "Our engineer was super helpful and set us up a WebEx meeting so we could meet on Tuesdays and Thursdays via video chat and also in-person. It was a great learning experience."

CyberPatriot looks forward to a continued relationship with Cisco and its experienced mentors in future competitions.



## International Exhibition Teams



### Sisler High School

**Location:** Winnipeg, Manitoba, Canada

**Coach:** Charles Bazilewich

#### Team Members

Gurneet Brar  
Michael Czelen  
Nick Dixon  
Arran Retzlaff  
Sandeep Seehra



### Sisler High School

**Location:** Winnipeg, Manitoba, Canada

**Coach:** Paul Buskell

#### Team Members

Zach Derado  
Justin Governo  
Devyn Hrechkosy  
Cody Landry  
Ajit Matharoo



### How to Report Internet Crime

To report Internet crime, to include hacking and identity theft, use the FBI's Internet Crime Complaint Center (IC3). IC3 is a central reporting hub for local, state, and federal agencies. The IC3 accepts online Internet crime complaints from either the actual victim or from a third party to the complainant. The FBI requests that you provide the following information when filing a complaint:

- Your name
- Your mailing address
- Your telephone number
- The name, address, telephone number, and Web address, if available, of the individual or organization you believe defrauded you.
- Specific details on how, why, and when you believe you were defrauded.

Any other relevant information you believe is necessary to support your complaint.  
(Source: FBI)

For more information:

<http://www.ic3.gov>

To file a complaint, go to:

<https://complaint.ic3.gov/ctf.aspx>

*"CyberPatriot is the chief motivating factor in our school's network security course offerings. It's an honour to help our students represent Canada in this competition."*

Paul Buskell, Sisler High School

*"CyberPatriot isn't the kind of competition where an inspirational speech and good luck really make a difference; instead the work requires a real application of technical skill."*

Joe Gombos, Fort Fisher Division

# The National Finals Competition Special Edition

The CyberSentinel / March 2013

*CyberPatriot IV, All Service Division Champions: Colorado Springs Cadet Squadron, Colorado Wing, Civil Air Patrol. The team members received the Commander-in-Chief's Cup and a \$12,000 scholarship check from Northrop Grumman.*



## This Month in Cyber History

### First Tweet

According to computerhistory.org, Twitter came out of a brainstorming session at the podcasting company Odeo. The initial concept was to share short messages via SMS text messaging with a small group.

Jack Dorsey was the primary designer of what was then code-named "twtr" and sent the first message at 9:50am on March 21st, 2006 - "just setting up my twtr." Twitter would be released to the public that July and found its first major success at the South by Southwest Interactive conference in 2007 shortly after it was spun-off as its own company, Twitter, Inc.

Source: [www.computerhistory.org](http://www.computerhistory.org)

## Start your legacy now, join the Northrop Grumman Intern Program

An internship at Northrop Grumman Corporation is unique. You will learn new skills, explore our enterprise, network with experts, connect with thought leaders, and finish with a resume that opens doors. CyberPatriot interns are the future of our nation's workforce. You'll work side by side with our cyber pros to learn more about the career field and how important this specialty is to our national security.

Here are the basics:

- For college level internships we typically look for rising sophomores, juniors, seniors, and graduate students at accredited colleges and universities
- We look for high potential students of all grade levels and have internship opportunities for high school students
- Work assignments typically begin in May/June and end in August/September. There are some opportunities for interns to stay on in a part-time internship capacity year round
- Included in many of our intern programs are orientation and kick-off events, networking opportunities with leadership and other interns, social activities, and learning sessions
- We also offer cooperative education opportunities, or co-ops. A co-op is slightly different from an internship in that your school decides the terms and works with us throughout the experience. Co-ops may earn credit plus an hourly wage, and they are not limited to the summer months

For more information about the intern program go to: <http://www.northropgrumman.com/Careers/StudentsAndNewGrads/Pages/Cyberpatriot.aspx>

To find opportunities for CyberPatriots, go to this link and enter "CyberPatriot" in the keyword field: [https://ngc.taleo.net/careersection/ngc\\_coll/jobsearch.ft?lang=en](https://ngc.taleo.net/careersection/ngc_coll/jobsearch.ft?lang=en)

### Team Logos

(Continued from page 2.)



### Presenting Sponsor

**NORTHROP GRUMMAN**

Foundation

### Founding Partners

**CIA**



Cyber Gold

**URS**

Microsoft | imagine | cup

**Raytheon**



Cyber Silver

