



The CyberSentinel

Commissioner's Cache



Summer is fast approaching and so is the end of the school year. Some of you may intern during the summer at Northrop Grumman facilities. Others in San Antonio, Spokane, and in other areas may work at cyber summer jobs that you received as a result of your participation in CyberPatriot. In any case, we hope your summer is exciting and fulfilling.

Here at the CyberPatriot Program Office, we will continue to work hard to promote our program and to keep you informed on developments affecting CyberPatriot as well as cybersecurity. *The CyberSentinel* will continue to be published during the summer. Monthly coaches' forums will be held to answer questions from the field.

In this month's edition of *The CyberSentinel*, our competitors and coaches have been recognized for their accomplishments by their states and the Air Force Association. We are excited about that, as it demonstrates that CyberPatriot has matured into THE National High School Cyber Defense Competition. Thank you for helping make that possible.

(Continued on page 4.)

Program Office Bits

**CyberPatriot V Coach and Mentor
Registration is Open!**

Go to: www.uscyberpatriot.org

- Welcome to K2 Share, CyberPatriot's newest sponsor!



The Farragut High School CyberPatriot team receives the Tennessee Open Division 1st Place Award from the Tennessee State AFA Chapter. The Williamson County Civil Air Patrol Squadron team received the Tennessee All Service Division 1st Place Award.

Cyber Crime Hits Facebook

Facebook has become a staple of social networking. It is also a target of social engineering by criminals bent on taking advantage of the free flow of information found on Facebook.

According to Mike Sauter at *FOX Business*, there are nine ways that criminals use Facebook. Among the ways he wrote that criminals use Facebook are:

Hacking. Using tools to break the account login/password and using the site for criminal acts, delivering dangerous spam (e.g., clickjacking), or selling the account.

Profile Cloning. Use unprotected Facebook photos and other

information to duplicate a Facebook profile.

Fake Facebook. Facebook users are lured into a fake site and inadvertently login with their credentials, giving away their identity.

Affinity Fraud. When a profile is commandeered or faked by a criminal, the criminal will use social engineering on the friends' list to steal other identities, seek more information on the owner of the stolen account (for other identity-related crimes), and to seek money from friends.

Mining Unprotected Info. Easier than hacking or faking a profile, a criminal uses personal information

found on a Facebook site, such as birthdates and birthplaces, to apply for credit cards, etc. in the victim's name.

Facebook is a great aid to staying in touch with friends and family. To protect yourself from becoming a victim of cyber criminals on Facebook, treat your login and password as you would for your bank account. Additionally, do not post personally identifiable information such as birthdates and birth places on your site. The information may be used by criminals to impersonate you.

To read Mike Sauter's article, go to: <http://www.foxbusiness.com/technology/2012/05/17/nine-major>

This Month's Question

What are the three primary roles computers and related devices occupy in the commission of crimes?

(The answer appears on Page 4.)

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CyberPatriot Competitor Wins Scholarship, Bound for MIT

Osan Senior Wins National Merit Scholarship

Reprinted with permission from *Stars and Stripes*
Published: May 4, 2012
Photo Courtesy of DoDEA

Cathleen E.

Nalezty of Osan American High School, South Korea, has won a \$2,500 scholarship from the National Merit Scholarship Corporation, according to a Department of Defense Education Activity news release.

Nalezty, was one of seven DODEA students worldwide to be selected as a semifinalist for



the scholarship in September, after taking the 2010 Preliminary Scholastic Aptitude Test/ National Merit Scholarship Qualifying Test. Some 1.5 million students in 22,000 high schools across the States took part.

Nalezty was selected for the scholarship based on an essay and information she provided about her extracurricular activities, awards, and leadership positions. She was also required to have an outstanding academic record, be endorsed and recommended by a high school official, and earn SAT scores that confirmed her qualifying test performance.

"Cathleen is an outstanding student who shines both in the classroom as well as in the many extracurricular activities she is involved with," said Tim Erickson, Osan principal.

"Cathleen is an intellectually articulate student with a great work ethic. She is a true academic," said Joseph Silbaugh, a Harvard Model Congress sponsor.

Nalezty will attend the Massachusetts Institute of Technology in the fall with a career focusing on computer science and information systems.

The other DODEA semifinalists were:

- Richard K. Wood, Guam High School;
- Colin P. McDonnell, Lakenheath High School, United Kingdom;
- Marie-Elise Goetzke, Heidelberg High School, Germany;
- Mark C. Davis, Ramstein High School, Germany;
- Midori E. Cassou, Wiesbaden High School, Germany;
- Katherine M. Kem, Wiesbaden High School, Germany.

New Jersey and California Coaches Recognized

Mandy Galante, the CyberPatriot Coach from Red Bank High School, in New Jersey, was selected as the Teacher of the Year for Monmouth County, New Jersey. She is now in the running for New Jersey Teacher of the Year.

Galante coached her Red Bank High School CyberPatriot team to their championship at the CyberPatriot III National Finals in 2011. The team took home the President's Cup and \$12,000 in scholarships. Her team made it to the CyberPatriot IV semifinals in January 2012.

Now on her fourth career as a school teacher, Galante also received the New Jersey Air Force Association's Teacher of the Year award for New Jersey in 2011.

For more on information on Mandy Galante, please click the following link:

<http://themonmouthjournal.com/rbrs-galante-named-monmouth-county-teacher-of-the-year-p2878-1.htm>



Mandy Galante (left) and her Red Bank High School championship team meet Vint Cerf, one of the "fathers of the Internet" at the CyberPatriot III National Finals Competition in 2011.



Benjamin Fernandez (top left) and his LAUSD Franklin High School Team, which competed in the CyberPatriot IV National Finals Competition.

Benjamin Fernandez, CyberPatriot Coach of the Los Angeles Unified School District's Franklin High School (LAUSD), was just named AFA's California State Teacher of the Year. He was nominated for State Teacher by the AFA's Gen. Doolittle LA Area Chapter in Los Angeles after receiving their Teacher of the Year Award.

Fernandez' team has made it to the National Finals as a Finalist in both CyberPatriot III and IV.

Coaches' Corner

- **CyberPatriot V Coach Registration.** CyberPatriot V Coach Registration began on April 1, 2012. Coaches must be registered and cleared before their teams may register. Go to: www.uscyberpatriot.org to register.
- **Coaches' Online Meeting** held May 21, next meeting will be in June. Registered coaches will be invited.

The CyberSentinel

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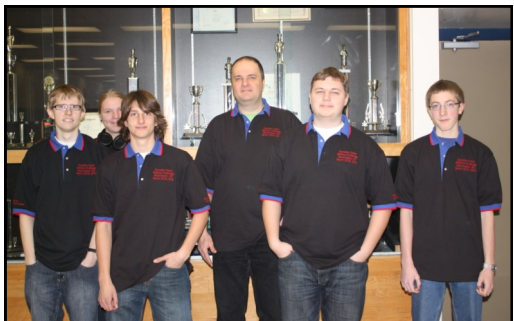
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Spotlight on Manitoba



CyberPatriot IV, International Exhibition Teams: Garden Valley Collegiate (left) and Sisler High School (right). The two teams finished at the top of the Canadian Cyber Defence Challenge and were invited to attend the CyberPatriot IV National Finals Competition at National Harbor, Maryland on March 22-23, 2012.



Canadian Cyber Defence Challenge

By Brian Cameron, CDC Chairperson



Just over a year ago, a group of educators from Manitoba, Canada was approached by one of CyberPatriot's founding partners, SAIC, about becoming involved with CyberPatriot in the U.S. The program was growing and it made sense to expand it beyond the American borders for many reasons. As an introduction to the program, a group from Canada was invited to experience CyberPatriot III in Washington, D.C. The Canadian delegation was told by the CyberPatriot organizers that they were interested in having other countries participate in the competition. Our group recognized the value of the competition and set out to create a Canadian event, using the CyberPatriot Program as a model.

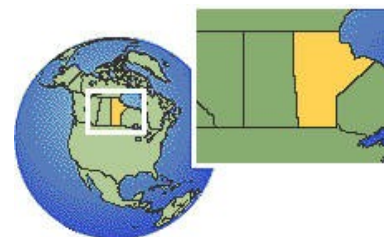
On February 11, 2012, the first official Canadian Cyber Defence Challenge (CDC) took place in Winnipeg, Manitoba, Canada. Six teams from four high schools competed to be the first ever winner of the CDC in Canada. Using the CyberPatriot competition rounds as initial training, all six teams took part to help prepare for the finals in Winnipeg. At the competition in February, the top two teams earned the privilege of representing Canada at the CyberPatriot IV National Finals Competition. A team from Sisler High School in Winnipeg and a team from Garden Valley Collegiate in Winkler, Manitoba placed first and second respectively.

All of the CDC teams competed in the CyberPatriot IV qualifying round, but unfortunately were not able to formally qualify. The Air Force Association was approached by the CDC Committee with a request for the top CDC teams to participate in the CyberPatriot IV National Finals Competition as guests. Our hope was to allow the Canadian teams to experience the program and get a better understanding of how the competition worked. Additionally, the experience would allow us to be stronger competitors in the future as well as give us direction for local CDC events. Needless to say, the experience was incredibly valuable for the high schools in that both now have a clearer understanding of what is required to compete in CyberPatriot. It also impacted the team members personally, which helps to make the experience even more valuable. The two team captains said:

"Cyber Patriot IV was a once in a lifetime experience! We will always remember it. The competition was challenging and fun and spending time in Washington, D.C. was amazing. The concept of online education and hands on labs was interesting compared to reading books upon books. The staff in Washington, D.C. was exceptional. We are hoping to qualify next year." Param Lobana, Team Captain, Sisler High School

"The trip to the Nationals in Washington, D.C. was the greatest experience of my life. I only wish I wasn't a senior so I could do it again." Abe Fehr - Team Captain, Garden Valley Collegiate.

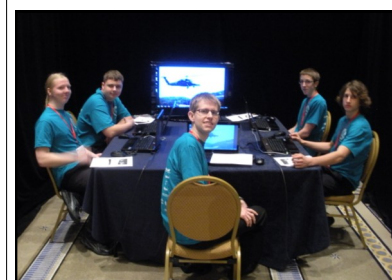
All of our high schools are committed to competing in CyberPatriot again in addition to our local competitions. We look forward to being part of the CyberPatriot competition now and for the foreseeable future. The program has allowed us to create a program that is exciting, relevant and is a good fit for our students.



The Province of Manitoba is located in central Canada, between Ontario and Saskatchewan. Minnesota and North Dakota are on Manitoba's southern border.



The Sisler High School team competing in the CyberPatriot IV National Finals Competition. Sisler High School is located in Winnipeg, the capital of Manitoba.



The Garden Valley Collegiate team at the CyberPatriot IV National Finals Competition. Their school is located in Winkler, 60 miles southwest of Winnipeg and 40 miles north of the United States border.

CSI Cyber

What do you know about Crime Scene Investigations? If you want to find out, the DoD Cyber Crime Center (DC3) has put together an on-line self assessment that can help. CSI Cyber asks 15 questions on various topics involved in Cyber Investigations to include:

- Law and Ethics
- The Investigation Process
- Digital Forensics Labs
- Crime Scenes
- Digital Forensic Examinations

There are three levels for each category – Beginner, Intermediate, and Expert. The site is

a great tool for users not familiar with the topics to learn and for the professionals in the field to increase their level of expertise. Once a user passes a category, they are given a certificate to show off their skills to colleagues, teachers, family, or friends.

For more information, visit the site at <http://csicyber.dfilink.net> or contact the DC3 Challenge Team at csicyber@dc3.mil.



Commissioner's Cache (Cont'd)

As our program continues to grow, I am continually impressed by the dedication of our coaches and the teamwork and individual achievement of our competitors, as well as the dedication of our sponsors and AFA volunteers. Be safe during the summer and read *The CyberSentinel* for updated information.

Bernard K. Skoch
Commissioner
CyberPatriot Program
Air Force Association

CyberPatriot Media Guidelines

Every CyberPatriot participant has an opportunity to be a spokesperson for CyberPatriot. In the course of your CyberPatriot experience, you may be interviewed by the news media or write an article for your school or unit newsletter. You may even blog or use other electronic means to relate your CyberPatriot experiences to others.

To assist you in your preparation for dealing with the news, electronic, or written media, the CyberPatriot program created guidelines that you can use to help you accurately depict the CyberPatriot program. Below are some highlights of the guidelines.

Do

- Mention that CyberPatriot was created to help motivate students to pursue science, technology, engineering, and mathematics (STEM) through a high school cyber defense competition.
- Write CyberPatriot as one word, with a capital "C" and a capital "P"
- Use the complete title of the program at its first mention: "CyberPatriot—The National High School Cyber Defense Competition"
- Remember to mention in every release or interview:

CyberPatriot was established by the Air Force Association.

The Northrop Grumman Foundation is the Presenting Sponsor for CyberPatriot V.

CyberPatriot's founding partners are SAIC and CIAS at the University of Texas-San Antonio.

Don't

- Do not refer to CyberPatriot as a hacking competition under any circumstance. CyberPatriot teaches defensive techniques in cyber security. We don't teach "hacking" tools or techniques, and "hacking" in competition is strictly forbidden.

- Do not imply or insinuate that CyberPatriot is a recruiting tool for the Air Force, the Department of Defense, or the Federal government. The competition and the skills developed through it are about building a strong national foundation for cyber skills throughout our high schools.

If an issue of significance that is particularly controversial or sensitive in nature arises, please notify the CyberPatriot Program Office at: info@uscypatriot.org.



Answer to Monthly Question

The answer is: The three primary roles that computers and related devices occupy in the commission of crimes are:

1. As an instrument of the crime (the tool used to commit the crime)
2. As a repository device of the crime (data storage)
3. As the target of a crime (or a victim machine)

(Source: DoD Cyber Crime Center)

For a self assessment on cyber crime forensics, go to:

www.csicyber.dfilink.net



Northrop Grumman's Diane Miller mentoring competitors at the Competitors' Dinner during the CyberPatriot IV National Finals Competition.

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