Drexel UNIVERSITY
Drexel University Cybersecurity Institute Newsletter

In wake of the FTC being able to sue breached companies, investors are raising billions of dollars to be invested in cybersecurity firms to alleviate cyber crime

Spotlight:
Dr. Scott White
Associate Clinical Professor, College of Computing & Informatics

Dr. White is an associate clinical professor of homeland security and security management and director of the Computing and Security Technology program at Drexel. He is a criminologist with an accomplished career in security. Before joining Drexel in January 2012, he served as the director of the Institute of Homeland Security at Westfield State University. He was a commissioned officer with the Canadian Forces Military Intelligence Branch (Department of National Defence) and worked for the Canadian Security Intelligence Service. He also served as an associate consultant in terrorism and intelligence analysis at MONAD Security Audit Systems. Additionally, he has consulted with federal, state, provincial and municipal police services in the U.S., Canada, and the U.K.

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Click this link to view Dr. White's profile and affiliations

Seeking Cyber Students:

Association for Computing Machinery

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Computing is key to solving our world's most critical problems. ACM enables students to discover and access leading-edge resources, develop professional and technical networks, and make a difference in the world by providing:

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- Timely Computing Information
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*Student membership starts at $19

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Drexel Women in Computing Society (WiCS)

Drexel's Women in Computing Society's (WiCS) purpose is to support, recruit, and retain women pursuing a degree in the broad field of computing. As a recognized student organization at Drexel University, WiCS is open to current undergraduate and graduate students of all genders, majors, and backgrounds.

Click link to join Drexel Women in Computing Society (WiCS)

The Master of Science (MS) Degree in Cybersecurity at
Drexel's College of Engineering

Click link to see course curriculum, requirements and graduate co-op program opportunity

CYBERSECURITY NEWS:
Billions Being Invested in Cybersecurity Firms

In response to the recent OPM government breach and hacking of Sony Pictures, investors are raising large amounts of funds to invest in cyber security firms to deal with cyber attacks. *Dow Jones Venture Source* reports that globally, venture-backed cybersecurity companies raised $1.9 billion last year. The cybersecurity market investment is ranging from $77 billion in 2015 to $170 billion by 2020. However, there are some critics to this technique. Some expert investors feel that some of the companies currently raising money for this type of investment will fail in the end and in addition, believe others will be acquired and will eventually write it off as a loss.

Read more on csoonline.com

Cybersecurity Experts Discusses Managing Cyber Risks and the Role of Insurance

Sarah Bloom Raskin, Department Secretary
U.S. Department of The Treasury
Discusses "Managing Cyber Risk & the Role of Insurance Panel 1"

Video (1:52:14) Center for Strategic & International Studies (CSIS)

In the Red FireEye Now Joining Forces with Government

Last year, *FireEye* reported a revenue of $426 million with a loss of $444 million. Chief Executive of FireEye, Dave DeWalt, business' strategy for his company is that for every $1 earned, $0.94 must be spent on sales and marketing. Despite this loss, it did not deter DeWalt from ceasing from development and stopping expansion plans for his company. This plan involves having the U.S. Government come aboard and act as adviser to deal with high-profile breaches.

Dave DeWalt Chief Executive of FireEye, Inc.

Read more on streetinsider.com

OPM Victims Able to Find Help Via Online

The estimated 21.5 millions who fell victim to the OPM breach can now inquire about questions online and receive notification through a tool called *Advanced Onion*. Advanced Onion was put into operation because some of the OPM victims who were notified this past June complained of long wait time on the phone, receiving suspicious looking mail alerts and of notifications that never arrived. Advanced Onion is a mail address-locating service that was awarded by the Defense Information System Agency on September 24 through a $1.8 million deal.

Read more on nextgov.com

CYBER RISK ALERTS AND TRAINING

SANS

SANS NewsBites

SANS NewsBites is a semiweekly high-level executive summary of the most important news articles that have been published on computer security during the last week. Each news item is very briefly summarized and includes a reference on the web for detailed information, if possible.

Click the link below to read more news from SANS:

Vol. XVII - Issue #83 - October 23, 2015

Homeland Security NewsWire

Homeland Security News Wire: Cybersecurity

U.S. DEPARTMENT OF DEFENSE

Department of Defense Website

MINORITIES IN COMPUTER SCIENCE/INFORMATION TECH
Meet the Current Top 10 Women of Information Security in Government

These women are boldly commanding respect and attention in a usually male-dominated field. Protecting our country and securing the internet, they are articulate and have the intellect to do a job where "women make up 14 percent of federal government personnel." Unfortunately, this number is even lower in the private sector which is only at 11 percent. Hopefully, this is about to change.

Read more on nextgov.com

Also click link below to read great news from SANS:

SANS Institute Launches the SANS CyberTalent Immersion Academy for Women

Black Engineer Boosting Diversity in Engineering Tech Field

Makinde Adeagbo felt out of place while employed as an engineer at Pinterest in San Francisco. It was very rare for him to see another black engineer where he worked. Adeagbo decided to do something about this by founding *www.devcolor.org.* This is an organization geared to show support and to encourage black computer science students to pursue engineering positions. Adeagbo is quoted as saying: "Other black software engineers need to provide this for the black engineers coming behind them. We all need to work together to pull ourselves up and make sure we are accomplishing all that we can." Other minority organizations worth mentioning are *Black Girls Code, Code 2040* and *Hidden Genius Project* all founded by African Americans to confront the small number of African Americans in the tech industry.

Makinde Adeagbo
Engineer@Pinterest

Read more on usatoday.com

Growing Number of Immigrants Influencing U.S. Sci-Tech Job Market

According to National Science Foundation's *news report*, between the year 2003 and 2013, the number of immigrants in the field of science and engineering rose from 16 percent (3.4 million) to 18 percent (5.2 million). With Asian Indians leading at 57 percent, this group also includes immigrants from the Americas and the Caribbean at 20 percent and Europeans making up 16 percent. The report also shows that foreign-born scientists and engineers earned higher degrees than their U.S.-born counterparts.

Read more on spectrum.ieee.org

Researchers Observe Cyber Hackers to Predict Their Behavior and Next Move

Researcher and professor, Hsinchun Chen, of management information systems at the University of Arizona does studies on hackers' behaviors to predict their next attacks and methods. Chen and his research is supported by the *National Science Foundation's (NSF) Social, Behavioral and Economic Sciences (SBE)* directorate and the *Directorate for Computer and Information Science and Engineering under the Secure and Trustworthy Cyberspace (SaTC)* program. Chen feels strongly about his work and is quoted as saying: "The most important part isn't looking back and saying 'what have they done? It's looking forward and saying 'what are the emerging threats?' We're really trying to understand the intent of the people planning attacks. Instead of looking at the bullets, you're looking at the shooters."

Hsinchun Chen
Professor/
Researcher
University of
Arizona

Read more nsf.gov

POTUS AND WH ACKNOWLEDGE THE DISCRIMINATION OF THE DISABLED WHEN SEEKING EMPLOYMENT

President Obama and WH Celebrate Disability Awareness Month

"A quarter century ago, our country took a major step toward fulfilling the fundamental American promises of equal access, equal opportunity, and equal respect for all when the Americans with Disabilities Act (ADA) was made the law of the land. While we have continued to make advancements that help uphold this basic belief, we must address the injustices that remain. During National Disability Employment Awareness Month, we celebrate the ways individuals with disabilities strengthen our workforce, our communities, and our country, and we recommit to cultivating an America where all people are able to build vibrant futures for themselves and for their families."

—Barack Obama, President of the United States

Read more on whitehouse.gov

(Video 02:52)"How Can We Encourage Students with Disabilities to Pursue Computing?"

TECHNOLOGY NEWS
ADHD, Dementia Diagnostic Apps in the Works for the Future

Anat Dahan, a doctoral student at the *Technion's Virtual-Reality and NeuroCognition Lab* and a team of *IBM researchers* in Haifa, Israel developed a smartphone tool what asked subjects to draw a rectangle 10 times while the phone's accelerometers and sensors tracked their movement. As a result, this aided in identifying and classifying individuals who have difficulty in maintaining continous motor activity. These IBM researchers "believes this type of analytics can help identify different types of ADHD, not just a single classification of those with difficulties in concentration."

IBM Haifa Research Lab

In diagnosing and treating dementia, IBM Israel developed smart phone that shows an 85 percent accuracy rate in detecting dementia in its early stages in about seven minutes. This smart phone was first introduced last year in the Alzheimer's & Dementia journal and can analyze voice and speech patterns. Subjects are asked to count backwards, describe pictures and identify words with a certain letter. Their answers are recorded and analyzed using algorithms developed by the IBM Research in Haifa. This method can help identify dementia while there is still time enough to treat the symptoms.

Read more on jewishvoiceny.com

Also read:
"Predicting Change in the Alzheimer's Brain"