Iowa State Engineers Help Black Sea Countries Fight Cybersecurity Threats

Dissecting the Dec '15 cyberattack in Ukraine.

Iowa State University faculty members and graduate students recently powered up their cybersecurity test bed and dissected the December 2015 cyberattack that hijacked and took down dozens of power substations across western Ukraine.

USDA investing $200 million in broadband

Nine grants, 10 loans awarded in rural areas.

USDA is investing more than $200 million in infrastructure projects to bring broadband to hundreds of unserved and underserved rural communities.

How to protect yourself from downloading fake apps and getting hacked

Strong cyber awareness.

A cybersecurity expert is warning smartphone users to be cautious of downloading fake apps that can potentially give hackers unfettered access to the personal information on your phone.

EDUCAUSE 2018 'IT issues' forecast highlights need for institutional change in higher education

Latest "Top 10 IT Issues" list reinforces the importance of institutional and IT adaptiveness and for using data to strengthen student outcomes.

New bill would transform cybersecurity at Dept. of Health and Human Services

Strong protection for health care data.

The HHS Cybersecurity Modernization Act comes in response to congressional hearings on the state of cybersecurity in the health care sector. A recent federal task force report on the state of hospital cybersecurity was starkly negative in its diagnosis.

Most Americans have never heard of multi-factor authentication

A strong way for people to prove their identity.

Most Americans have never heard of two-factor authentication, even as the world's biggest tech companies are pushing increasingly strong versions of multi-factor authentication in hopes of solving a vast array of cybersecurity problems.

Virtual surgery technology lets medical students train with hands-on simulations

Strong broadband provides realistic, hands-on simulations.

A virtual reality platform that provides surgeons-in-training with realistic, hands-on simulations promises to transform the way medical students learn surgical techniques and better prepare them for careers in the operating room.

Smart traffic helps improve quality of life

Data collection about improving intersections, travel time, congestion.

As cities work to better manage traffic and flows of people through strained infrastructure, implementing intelligent traffic systems can help create better understanding of current needs and make adjustments.

The Telemedicine Revolution: A Crucial Component of Everyday Care

Health care conducted virtually through technology.

Today's consumers can buy almost anything online: cars, expensive vacations, large gifts, and even houses and leases. And we trust the technology we use to do that, says Christopher Northam, vice president of telehealth at Nashville, Tennessee-based HCA Healthcare. Why should health care be any different?

Members of Congress want you to hack the US election voting system

Fed legislation would provide election funding to states & would designate voting systems as critical infrastructure.

This summer, DefCon's "Voting Machine Hacking Village" turned up a host of US election vulnerabilities (PDF). Now, imagine a more mainstream national hacking event backed by the Department of Homeland Security that has the same goal: to discover weaknesses in voting machines used by states for local and national elections.

Girls Who Code launches new summer program to teach more girls to code

2-week intensive courses to teach middle & high schools girls to code.

Girls Who Code is expanding its reach across the US with a brand new summer program, Campus. The two-week intensive courses, hosted on select school and university campuses, go deep on a range of topics from Website Design and Development to Wearable Tech & Fashion Design and iPhone App Development.

Need for cyber security professionals rises with prevalence of attacks

More than 4,000 ransomware attacks every day.

Cyber security jobs are in high demand due to the rising number and sophistication of attacks. The growth rate for jobs in the field is projected to be 37 percent between 2012 and 2022, according to the Bureau of Labor Statistics.

Public input sought on faster internet for Belmond, Iowa

Possible community fiber optic broadband network.

The public is invited to attend a Community Broadband Meeting this Thursday, Nov. 2 so Belmond residents can learn more about a possible community fiber optic broadband network in Belmond. The meeting will be held at 6 p.m. at Belmond City Hall.

What Happens to the Internet After a Disaster?

A strong plan is needed for recovering power & Internet service.

It's often easy to imagine the internet as a frivolous amenity. But when the most important thing is to communicate your plight to authorities, relief workers, and the outside world, reconnecting to the internet can become as important as food or clean drinking water — especially because you might not be able to get the latter without the former.

Group releases recommendations to bolster computer science education in Iowa

'Computer science is not just an elective anymore'

The recommendations were written with "a vision that computer science will eventually become a high school requirement for all students," according to the group's report, and includes encouraging all school districts to allow some computer science courses to count toward high-schoolers' math course requirements.

WiFi-equipped school buses help students get online

Flexible broadband option to narrow the digital divide.

WiFi school buses are one new approach to help students without access to fast broadband at home get connected. The school buses are equipped with routers and students use a public network to connect to the internet. This allows children who have long commutes, which can be two hours each day, to finish homework assignments on their journey.