

UTV's Michael Frogget, Jake Stout, Yi Zhang and John Wardle

Philo gives new meaning to 'network television'

IPTV would deliver campus cable service over the data infrastructure, bringing the U closer to an all-digital future

When you talk television in Utah, there's one name that's hard to escape: Philo T. Farnsworth.

The Utah-born inventor was a pioneer in moving-image technology, securing 165 patents in his lifetime and literally changing the way we view the world. Atop the Oquirrh Mountains, 35 radio and television broadcast towers crown Farnsworth Peak, named in honor of the man buried in the Provo Cemetery.

So there's a certain serendipity that Tivli, an IP-based streaming television service currently in a proof-of-concept phase at the University of Utah, decided to change its name last month — to Philo.

"I think we were just looking for a brand that really represented innovation, and we found it in Philo," said spokeswoman Alana Davis.

UIT's University Television, or UTV, provides programming to the 2,700 students who live on campus as well as guests at the University Guest House and UNI building, among others. Unified Communications' John

New Password : Verify Password:

Password Strength

New Password not entered

The return of the reset

University-wide mandatory password resets have been gone for years, but for a select few, they're coming back.



New faces join CIS

Jeff Hassett and Trevor Long join Mike Ekstrom's team as associate directors. Find out their vision for the future.



pg. 5

Governance decisions

At a glance

Support Services

Sept. 18 • A voice systems decision was delayed pending more information. Joe Taylor updated the group on USS funding and resource allocations and presented a list of inprogress projects for prioritization.

Infrastructure

Sept. 19 • The LDAP data refresh tests have been successful. A Grouper pilot is expected in November. A task force was recommended for IPv4 cleanup. Efforts are being made to bring campus merchants into PCI compliance by April.

Research

Sept. 25 • A Futures Committee was approved to study funding models for the Center for High Performance Computing. A proposal for a National Science Foundation grant for CHPC is being worked on. High-performance computing may require a build-out of the Downtown Data Center.

Teaching & Learning

Oct.7 • The OITC has asked the portfolio to recommend a budgeting model for new academic spaces prior to their opening. The panel also looked at how UIT allocates and administers student computing fees to determine whether the current model is still the most appropriate in carrying out the University's mission.

Find portfolio membership, agendas and summaries at cio.utah.edu.

Innovative infrastructure, research go hand in hand

In recent years, UIT has placed considerable focus on improving customer service by streamlining our delivery and improving the reliability and resiliency of our operations. We developed the Downtown Data Center with much higher redundancy and availability, and launched the Service

Management Platform project to provide our customers with a rich, consistent, and intuitive environment to order services and track them to completion.

We recognize that technological change and architectural innovation are not only inevitable, but critical to our evolution. This approach has led UIT to improve the technology transfer pipeline and overall collaborative approach between the Center for High Performance Computing (CHPC) and other service units. CHPC staff work daily with demanding faculty and their teams to provide advanced computing services that are critical to cutting-edge computational research. In that vein, CHPC staff members have participated in an early cloud computing vendor t



Steve Corbató Deputy CIO

participated in an early cloud computing vendor trial in the Internet2 Net+ program and lead a campus-wide storage technology working group.

In Networking, the Software Defined Networking concept is attracting considerable interest and investment in both academic research and commercial sectors. Many experts believe it could create more application-aware, cost-effective networks. We are fortunate to have one of the leading research groups in this field within our School of Computing under the leadership of Professors Kobus Van der Merwe and Rob Ricci. The Flux group has developed a technology – Emulab – for performing reproducible experiments within complex systems and network environments.

CHPC has developed a close collaboration with this team to help facilitate their research over campus and UEN infrastructure. With a recent grant from the National Science Foundation, the CHPC/Flux team will take this collaboration even further. The Campus Cyberinfrastructure Network Innovation and Engineering (CC-NIE) award will allow Joe Breen and his CHPC colleagues in conjunction with the UIT networking and security teams to deploy network "slices" to support the high-performance data transfer and collaborative network requirements of campus researchers. With the active support of Honors Dean Sylvia Torti, this award also will provision similar network capabilities to the Marriott Honors Residential Scholars Community to allow the University's best and brightest undergraduates to innovate over this next-generation platform.

Cultivating the innovation pipeline is essential to any modern research university's long-term success. We will continue leveraging the strengths and the advanced requirements of our faculty researchers and our best students to propel us in this direction.



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Password resets required for select groups, not all

About three years ago, a decision was made to stop requiring all users of the University network to change their passwords periodically. It was a temporary measure, one that "was intended to be replaced with some sort of equivalent mitigating control," said Chief Information Security Officer Dan Bowden.

Yet that follow-through never happened, and that is a serious issue when it comes to maintaining federal standards required of healthcare professionals and merchants. So Bowden set out to find a solution.

"After weeks of boiling through options and talking to the teams, I decided there wasn't a good technical way to do this. But there had to be a way to do this and feel good talking to an auditor," he said.

Barring last-minute changes, the plan going forward will be a manual process that narrows the scope of mandatory password changes to only those employees whose jobs require it to maintain compliance.

"Think HIPAA, someone who has access to medical records," Bowden said. "Think PCI, someone who has access to credit card data."

Those users will get reminders to change their password on a consistent basis, with policy controls in place to ensure it happens. "There will be some follow-up governance and ramifications for not doing it, especially if it puts us in a situation where we would not be compliant with HIPAA or PCI," he said.

Additionally, the Information Security Office is likely to install multi-factor authentication to a limited group.

"We're going to focus on people who have administrative privileges to systems that have restricted and sensitive data — data that if it were breached would put us in the news, cost us money in terms of fines. Basically make sure those people have a separate administrative account they would use in those systems that is different from the uNID."

If those credentials were compromised, they could easily be revoked to prevent damage. A hospital systems group will pilot an RSA SecureID method, while three colleges and another area of the hospital will test the DUO Security solution.

USS' new budgeting tool goes into full use

University Support Services has rolled out a new budgeting tool, the Effort Distribution Report, to help departments better track salary and benefits expenses throughout the quarter.

The EDR allows business and payroll officers to generate in-quarter reallocations and should speed up Effort Certifications.

Payroll managers will also be able to make timely in-quarter corrections to expenses that have already posted.



SPC employee picked for \$500 scholarship

Ryan Hines, a business process analyst in UIT's Strategic Planning and Communication department, has been awarded a \$500 Alumni Association scholarship through the University of Utah Staff Council.

Hines has enrolled in the U's Conflict Resolution Graduate Certificate program, which he began this fall and will complete in May.

"I've known about the program for quite a few years," the seven-year UIT employee said. "But I've never had as distinct an opportunity to use it as I do now. While we're not necessarily always resolving a conflict, we are always trying to get to the needs and interests of everyone."

For staff scholarship information, visit www.staffcouncil.utah.edu.



Infrastructure welcomes new directors

"It's kind of one of those 'getting to the top of the hill on a roller coaster' feelings. You know you're going to have a lot of fun, but it scares you for a second."

That's how Jeff Hassett describes his new job as Associate Director of Engineering for Common Infrastructure Services, while newly minted Associate Director of Operations for CIS Trevor Long acknowledges he expects his latest job to feel a little "overwhelming" at times. With candor like that, it's little wonder both place a high priority on the same thing: Transparency.

"I think we're of the same mindset, where's it a door's-always-open kind of policy, no smoke and mirrors," said Long. "This is where we're at and this is where we want to go, and as a team we're all moving in the same direction."

Hassett plans to make sure they are communicating to staff "as to what the priorities are for our group, what we're working on, timelines. It's going to be transparent."

Long and Hassett step into their roles under CIS chief Mike Ekstrom with a crucial task ahead of them: partitioning a talented staff from one massive allpurpose group into two separate but equal specialty teams.

"My team is really going to be focused on working with consumers of our services to understand what their needs are, find technology to support those needs and implement it." Hassett said. "When we actually come up with a design, the operations people will be involved with that design from a consulting standpoint so what we're implementing is sustainable. They'll make sure what's designed is managed and maintained."

"I think it will be a very close degree of teamwork," Long agreed. "It's not going to be a separate, 'Here's Operations' silo, 'Here's Engineering' silo and the two never talk. It's not going to be that at all."

"Jeff and Trevor come to us wellprepared to launch this forward in a positive way, to build a strong culture of



operational and engineering excellence," Ekstrom said.

Hassett comes to CIS having spent many years on campus, as well as seeing how things work in the private sector at companies such as Walt Disney and Lockheed Martin.

"I actually started up on campus over 20 years ago in the business school working with Steve Adams and Jon Ross and Dave Hoisve. I've got a lot of knowledge about how campus works and what the needs are. I was also a faculty member for eight years, so I have experience from both a staff and faculty perspective."

On the flip side, Long thinks his fresh perspective will be an asset.

"I'm new to UIT. There's a lot of people I need to get to know," he said. "I think we have a great opportunity here. We are at a pivotal moment where some great things can be done. We've got talented people - which is critical - and

now we're getting more organized."

Now the challenge begins to shape the teams that will move Common Infrastructure Services forward.

"We've started the discussions. We're actually hoping to make some announcements of the team structure pretty quickly," Hassett said. "We have some dates in mind, and it's within the next couple of weeks."

"We want to move forward quick," adds Long, "but we don't want to go too fast and bungle it."

Key to that mix for Long will be student involvement.

"They'll be benefitting from the mentoring of the phenomenal UIT people who are already there. The students will be a resource to help our current teams, and take some of the burden off of the people we've already got," he said. "In return, the students get some great experience working with talented people."



Philo (continued from pg. 1)

Wardle has been leading an initial test to see whether Philo's IPTV service might be a practical way to bring UTV's programming and infrastructure in line with the future of digital television — one that straddles old and new systems.

"The issue with going all digital and cutting off the old copper system is people still buy the TVs. So you're tied into a set-top box if you want to go to a TV," Wardle said. "A lot of times it's a proprietary set-top box, based on what type of digital signal you're sending. There are some, like our IPTV system that we're testing, that will work with a Roku box, which currently starts at \$50. That's what we liked about Philo."

UTV's initial test phase allows about 50 users to stream 30 different channels across the university's data network. A handful of boxes in the UTV data center located in student housing take incoming campus television signals and convert them to streaming highdefinition feeds accessible through Philo's home screen. The channel selection at this point is a fraction of UTV's current 120-channel lineup, but the technology scales easily enough should the university decide to adopt the service.

UTV's student technical assistants Michael Frogget, Jake Stout and Yi Zhang are pushing the system hard to make sure it meets expectations. The U is also putting Philo through its paces to help determine whether the service could meet the standards of Internet2's Net+ program, essentially vetting it for other institutions that might consider using it on their campuses.

Philo's roots run deep in the college landscape. The service began on the campus of Harvard, which didn't provide television service in its student housing. So two



Give Philo a try

If you're interested in being part of the testing group for Philo IPTV, email your uNID to John Wardle at john.wardle@utah.edu.

You will need to authenticate to Philo, and content may only be accessed on the campus network.

students created their own, lining their dorm room with foil to catch over-the-air signals and allowing anyone with a campus email to log in to get streaming channels. Their early success led to a more savvy solution, and eventually grew to include other colleges in a fullfledged endeavor.

The company recently raised \$6.3 million, including from the likes of billionaire investor and media mogul Mark Cuban, to push its offerings farther. There are nine schools listed as customers on Philo's website, including Pepperdine, Yale, University of Washington, and Stanford.

Naturally, moving the television

stream from a dedicated fiber/copper system to the existing data network means pushing more packets, but Wardle and Philo are confident the impact would be minor.

"Video is going to take up some space, but YouTube usage is estimated to average about 17 percent of network traffic in the U.S., and I wouldn't expect it to be more than that," Wardle said.

There are also many benefits to using Philo.

"I think the big benefits for the university are that Philo works on a variety of student devices around the network. We provide cloud-based DVR, and we're a fully managed solution. University IT doesn't need to upgrade the software," Philo's Davis said. "We have simple authentication integration with existing databases. We use the campus backbone and don't use inbound Internet bandwidth. And there's less piracy."

Campus administrators are excited about the prospects.

"It seems pretty cool, especially if See Philo, pg. 6





Philo (continued from pg. 5)

it's expanded to all of the cable channels that are offered," said Michael Walker, IT manager for Housing and Residential Education. "As far as a being able to use the mobile devices, that's something that our students will want to do."

Wardle notes that although most UTV customers have a laptop or mobile device that could stream Philo, their expectation still is to plug in a standard TV and have a signal.

"We're testing IPTV, looking at digital, changing out the whole system, but we will always use the analog system until we're told not to or until it dies," he said. "So the copper going to these buildings, that little port in the wall has got to have something on it so their TVs will work without a set-top box."

Tony Murillo, IT director at the Huntsman Cancer Institute, is intrigued by the possibility of adding service in places that may not be hard-wired for television.

"I know every time someone asks



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Yi Zhang explains the copper coaxial cable routing closet

for TV in their area I have to think whether I want to run cable over there," he said, adding that a Roku box paired with Philo could solve a lot of those issues. "If we're moving things around or need to reconfigure things, that would give us more flexibility that we don't have now."

As with many new services, there's always one factor that weighs heavily into the deliberations: price.

Initial quotes for Philo's service are favorable when compared with the typical cost a homeowner would

John Wardle looks over Philo's streaming equipment

face for a similar level of service.

There are also equipment upgrade costs with IPTV, but as Wardle notes, the existing system is reaching the upper limits of its expected life, so that cost exists no matter the outcome of the Philo test.

"With what UTV charges we're able to cover all of our programming cost, all of our equipment cost, and all of our salaries. So this is a costrecovery service," he said. "We don't tap into any UIT money at all. It all pays for itself. So IPTV will reduce the cost in the long term."

The next step is to expand the test to all of University Housing customers to really get a feel for how the service responds. Then, Unified Communications will assess whether IPTV and Philo are a good fit.

"We're moving slowly with this on purpose so we can have a good input and feedback opportunity," Wardle said, "because it may be that this is not the solution that we need. But I'm excited about going to all-digital."

UIT gathers for All-Hands meeting









University Information Technology staff gathered Oct. 21 to catch up on ongoing initiatives and some new happenings. Directors' presentations touched on some questions submitted online prior to the meeting, and more were answered in a live Q&A.

For a video of the meeting, as well as presentation slides and handouts, visit the CIO website at cio.utah.edu/reports-updates.php.





See All-Hands, pg. 8



All-Hands (continued from pg. 7)











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All-Hands (continued from pg. 8)

















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Kudos & Congrats

The new

responsive/mobile design for Utah.edu is a huge success. Thanks to **Roger Kowallis** for all his hard work with a VERY short deadline! ~ Debbie Rakhsha

Kudos to Cary

Lopez and Ryan Hines for facilitating the scholarships and financial aid work. We now have a great handle of the current workflow and some recommendations that will move the dial. ~ Paula Millington

Thanks to Elliot Fenech and Robert Jans for their excellent work on our recent Unite upgrade.

 \sim Chris Pfeiffer and Shellie Eide

Thanks to Jan Lovett for taking the lead on evaluating IT needs for Songdo classroom and facilities. She discovered many issues/questions that no one had yet to address or think of.

~ Jill Brinton

High fives to Peter Panos for developing a model to determine real costs of the network! ~ Paula Millington

Thanks to Barb Iannucci for her work to get the forms running smoothly – with NO SPAM! ~ Debbie Rakhsha

The ISO team of Steve Scott, Corey Roach, Dustin Udy, Jake Johansen, and Jonzy has investigated and followed up on several hundred real and suspected phishing attack emails the past month in response to heightened awareness across the University.

~ Dan Bowden

Special thanks to Amanda Hurtado for keeping the content management editors "happy and content." ~ Debbie Rakhsha

How to submit to Kudos & Congrats

Anyone can submit an item for Kudos & Congrats. Email praise for your UIT colleagues to scott.sherman@utah.edu. The people you recognize will be put into a drawing to win gift cards, event tickets, merchandise and more. Those who submit entries will also be put in a separate drawing for more prizes.*

A special thank you to some exceptional campus organizations that donated tickets, merchandise, and gift cards to help recognize UIT employees: Athletics, Auxiliary Services, Dining Services, Kingsbury Hall, Pioneer Theatre Company, Red Butte Garden, UIT Leadership, and Utah Museum of Fine Art.

*Directors and associate/assistant directors not eligible for prizes.

From the Node 4 podcast

"We basically will be updating our information security policies, and we'll want to centralize all of the information security policies for the entire university on the regulations.utah.edu site. So references to policy we had out on SecureIT or other locations [will be invalid]." — Dan Bowden, Chief Information Security Officer

Listen to a podcast interview with Dan Bowden at cio.utah.edu/node4

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Have a story suggestion for Node 4? Email scott.sherman@utah.edu.



Orendt, others take on responsibility at CHPC

In an effort to improve service, the Center for High Performance Computing has done some reorganizing in the wake of director Julio Facelli's resignation.

Anita Orendt, above, has been named assistant director of research consulting and faculty engagement, becoming the primary contact and liaison for faculty and users engaging with CHPC resources. She will also handle a host of other user-based tasks, including account maintenance, coordination of scientific staff efforts, and molecular modeling support for chemistry package users.

Orendt will work alongside Associate Director Julia Harrison and Guy Adams, assistant director of systems and networking.

Additionally, several members have been named project leads:

• Wayne Bradford will oversee security issues, especially with the HIPAA servers.

• Joe Breen is the project lead on advanced networking.

• Steve Harper is the lead on virtualization, including managing the VM farm and investigating other virtualization options.

• Brian Haymore is responsible for HPC and storage.

• Sam Liston will take the lead on SuperComputing events.

Hospital tests encryption on personal cell phones

The brilliance and bane of smart phones is their facilitation of constant access to enterprise email and sensitive data. That direct line allows workers to go wherever they need without worry of missing important messages or hinder a project by being out of contact. Yet few treat their cell phones as securely as their laptops.

A recent survey by Lookout Mobile Security indicates just 44 percent of cell phone owners use a passcode on their phone.

That's the kind of statistic that will keep information security officers up at night. Dan Bowden knows. The chief information security officer at the University of Utah is responsible not only for the security of student and employee data, but also for protected health information processed through the University's hospitals and clinics.

The hospital team recently completed the Herculean task of encrypting every laptop and USB drive in the organization, and now Bowden has his sights set on mobile devices.

"Cell phones are next, and the biggest reason is the threat vector of loss/theft is the same on cell phones as it is on laptops. In fact, it's probably higher," he said. "And the concern is restricted data floating around on people's cell phones based on how they use it."

Lookout projected in 2012 that consumers tallied \$30 million in lost and stolen mobile phones, and Salt Lake City was 25th on the list of U.S. cities where people are most likely to lose a phone.

The good news for both the security team and users is that encryption doesn't mean locking down the entire device.

"We are piloting a solution for encrypting where rather than encrypting the phone, we could install an agent that encrypts just the data associated with an application. Then when you leave, there's a way to remove that from your phone rather than wipe your phone." Bowden said.

He knows the easier he makes it for people to seamlessly encrypt data, the more secure that data will be.

"We want to make something that is appealing to them rather than something that they want to avoid and use their phone for work anyway," he said.

A hospital-based pilot group is testing encryption products. For now, there is no plan to move encryption to main campus, though that requirement could come down on a federal level if student data laws change. "If FERPA does evolve like HIPAA, it would be nice if there was another twoto three-year time gap for us to be ready to move forward with it," Bowden said. "I'm hoping by then there may be more mature solutions, such as a virtual desktop so the data never has to leave the system."

Robust video solution rolls out across Utah

Don't reinvent the wheel. It's a tired cliché, sure, but when it comes to many of the concepts and curriculum materials used in universities across the state, professors often have to create from scratch the same basic assets.

Now, thanks to a solution conceived and tested by UIT's Teaching & Learning Technologies group, they won't have to. The eightschool Utah System of Higher Education, which has collaborated on instructional technology since at least 2003, has adopted the U's teaching technology core.

"All of the schools went to Canvas at the same time, which has been a great move for us," said Cory Stokes, executive director of TLT. "As we looked at Canvas, we saw that the way teachers want to teach and what they want to do in their classes, we needed to expand the capabilities of Canvas."

So Stokes' team worked with Instructure, Canvas' creator, to integrate the Kaltura cloud streaming video service. Then to make those videos fully searchable, sharable, and reusable, they added the Equella digital resource management system.

Together, they "enable us to have dynamic course content and allow faculty to collaborate and share what they're building for their teaching materials and make them available to their students," Stokes said.

By implementing Canvas, Kaltura, and Equella throughout USHE and the Utah College of Applied Technology system, professors have the option to share course materials.

"It allows you to start out and keep things in your pasture, but if you want to, you can open the gate and you can let those materials flow out to the others schools as well," Stokes said. "Maybe we don't need to all build the same Biology 1010 animation of how cells work. Maybe we can build it once and share it."



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Meet the U's classroom of tomorrow

Imagine sitting in a classroom, listening to a science professor discuss how some substances react violently when they come into contact because one element is rife with nucleation sites. You raise your hand and mention you've seen a video where Mentos and Diet Coke react to illustrate the principle to entertaining effect.

Then, with the push of a button, you beam the video directly to the classroom's visual display system for the entire room, and when it's over the professor's slides return to the screen.

Not only *can* it be done — it *is* being done at the University of Utah thanks to the Crestron AirMedia device.

Already in action in Teaching & Learning Technology's "alpha room," the AirMedia will soon fan out across campus as part of the standard "foundation stack" as classrooms are built or refurbished.

"We've been talking with faculty and with Teaching & Learning governance about what they need as faculty members when they walk into a classroom," said Cory Stokes, executive director of UIT's Teaching & Learning Technologies division. "They're telling us, 'What we really want is a place where we "We think that the foundation room will really encourage a lot more collaboration, group conversation, and student-centered work in the classrooms." — Cory Stokes, executive director of Teaching & Learning Technologies

can just walk in and easily connect our computer and not have to bring in adapters."

The AirMedia allows multiple users to connect to the same display — up to four at a time — and share content in a meaningful, collaborative way.

"You can have this very dynamic environment, and you can have group work happening and see what each group is doing, and bring one to the front," Stokes said.

In addition, the system works in concert with other components of the foundation stack to serve students with accessibility needs.

"An assisted-listening device will make it very easy to plug in audio loops. AirMedia allows us to send what's on the main screen to an individual device so someone can hold the device more local to them," Stokes said. "So it really opens up access to the rooms in so many ways."

Stokes plans to begin installing the foundation stack into 17 classrooms this spring, many in Milton Bennion Hall and a few more around campus. Getting to all the rooms will take time, as there are about 200 general classrooms and 150 department-specific rooms at the university. If all goes well, Teaching & Learning Technologies will overhaul about 25 to 30 rooms a year.

For those departments who can't wait for their turn to come around, they can allocate funds from their budgets for a fully customizable installation starting at around \$10,000.

"We think that the foundation room will really encourage a lot more collaboration, group conversation, and student-centered work in the classrooms," said Stokes, "just that ability to easily connect and get the room out of the way."



Halloween, (continued from pg. 12)



















Encryption is good, except when it's not

Malicious ransomware encrypts computer's files until user pays for the key

"Your personal files are encrypted!"

If you're a security-conscious type, that's great news — unless you aren't the one who encrypted them.

A new variant in ransomware is causing concern for network administrators and general users, including those at the University of Utah. Cryptolocker is a vicious bit of malware often delivered via phishing through an email attachment. Once the attachment is opened, the malware goes to work, encrypting

Your personal files are encrypted!

Your important files encryption produced on this computer: photos, videos, documents, etc., <u>Here</u>s a complete list of encrypted files, and you can personally verify this. Encryption was produced using a unique public key <u>RSA-2048</u> generated for this computer. To decrypt files you need to obtain the private key. The single copy of the private key, which will allow you to decrypt the files, located on a secret servier on the bitemet: the server will destroy the key alter a time specified in this window. After that, nobody and never will be able to restore files... To obtain the private key for this computer, which will automatically decrypt files, you need to pay 100 USD / 100 URR / smiter amount in another cumency.

Cick +Next> to select the method of payment and the currency. Any attempt to remove or damage this software will lead to the immediate glestruction of the private key by server.

every file with a common file extension.

The user is then told they have a

few days to pay between \$100 or \$300 (depending on the variant) or the key that unlocks the encryption will be destroyed, rendering the files useless. Those who have paid attest that the key is indeed delivered and the files unlocked.

The encryption is real, and so far no one has reported an easy way to defeat Cryptolocker. If you or another user gets an email you believe may be Cryptolocker, forward the message as an attachment to iso@lists.utah.edu.



November

Thursday, Nov. 7

Delivering a Campus Data Service • Webinar of interest to administrators around campus. 10-11 a.m., register at http://goo.gl/GXKqvB

Monday, Nov. 11

16th annual Veterans Day Commemoration Ceremony • 21 cannon salute and honoring Utah's veterans, 11 a.m. – 12:30 p.m., A. Ray Olpin Student Union Ballroom

Monday, Nov. 11

Research Data Management, Sharing and Ownership • Learn about University policies surrounding data ownership and management responsibilities. 2-4 p.m., HSEB

Thursday, Nov. 14

Advocating for the U • Learn how to advocate for University priorities during the legislative session. Noon-1:15 p.m., Alumni House, RSVP with Marcia.dibble@alumni.utah.edu

Saturday, Nov. 23

NHMU anniversary • Natural History Museum of Utah offers rare behind-the-scenes tours. 10 a.m.-5 p.m., at the museum

December

Wednesday, Dec. 11

IT professionals holiday party • Noon, Officers Club, Fort Douglas, 150 S. Fort Douglas Blvd.

Node 4 is a monthly newsletter produced by UIT Strategic Planning and Communication. Contact communications specialist Scott Sherman at scott.sherman@utah.edu for information or to offer feedback and content ideas.

