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The Association for Information Communications Technology Professionals in Higher Education

AJEMS

January 2011

Vol. 40, No.1

Supporting higher education information communications technology professionals in contributing to the achievement of the strategic mission of their institutions

Board Approves Slate of Nominees

The Board of Directors has approved a slate of nominees to present to the membership for election to the Board for 2011-12. The new officers' terms begin at the close of the Annual Conference April 6.

The election is conducted electronically using Web-based survey software to verify and count results. All primary (voting) institutional representatives will receive an e-mail announcement containing instructions and can review candidates and their platforms online before casting their vote.

If you have questions about eligibility to vote, or if the person designated as your campus's primary representative has left his or her position during the past year and no new voting rep has been named, please contact Michele West at 859/278-3338, ext. 222, or mwest@acuta.org. The candidates are:

- President-Elect: Jennifer Van Horn, Indiana University
- Secretary/Treasurer:
 Adrienne Geralds, Rutgers University
 Ron Kovac, Ball State University
 Riny Ledgerwood, San Diego State University
- For Director-at-Large (2 positions open):
 Eric Breese, DePaul University
 Randal Hayes, University of Northern Iowa
 Sharon Moore, Smith College
 Penny J. Pietraszka, Bryant University
 Mark Reynolds, University of New Mexico

Serving on ACUTA's Board of Directors provides opportunities for professional and personal growth. It requires a commitment on the part of the individual as well as the institution for which he or she works. All of these nominees are to be commended for their willingness to serve the association as Board members.

Which Article
Is Best?

The Journal/eNews Subcommittee wants your input regarding the eNews. Read through the articles in this issue, and tell us which article you found most useful. Send the title in an e-mail to pscott@acuta.org and you'll be entered in a drawing for a FREE webinar!

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From ACUTA Headquarters



Jeri Semer, CAE

ACUTA Executive Director

jsemer@acuta.org

Rebalancing IT for the Future

We are pleased to invite senior IT leaders to the 2011 ACUTA Strategic Leadership Forum on April 4-5 in Orlando, in conjunction with the 40th ACUTA Annual Conference.

This year, the Strategic Leadership Forum will be focused around the theme of rebalancing IT for the future. We have planned an exciting two-day program where senior IT leaders will examine a number of key issues together, as they consider how to re-invent and re-balance their organizations to emerge with technology infrastructure, organizational structures and business models to carry them forward.

These new organizations will be focused on customer needs, they will allow for growth as needs and technologies evolve, and they will be built on financially sustainable models. They will be staffed by technology professionals who understand the changing needs of the education communities they serve, and whose technical knowledge is complemented by collaboration and communication skills. This "new normal" will create increasing layers of complexity in which Senior ICT leaders will be called upon to not only ensure that the technology functions well, but that it is organized in a manner that provides value and efficiency for the investments made.

Participants include chief information officers, vice presidents, assistant/associate vice presidents, vice provosts, executive directors and other senior campus leaders from a cross-section of institutions of all sizes and types. This year, we are encouraging CIOs to consider bringing a senior IT manager from their institution to the Forum, as a professional development opportunity.

Sessions at this year's Strategic Leadership Forum will address the following strategic issues, and offer approaches, methods and solutions from successful ICT leaders:

- Important skills and competencies for the successful CIO of the future
- · Innovation in the role of IT and IT leaders on campus
- Preparing future IT leaders with the skills they will need for maximum impact and relevance to the institution and their careers
- How is the role of the higher education CIO changing to remain highly relevant?
- "Lessons learned" from veteran ICT leaders about cycles in the role of IT and the CIO, increased velocity of change, and future challenges for the CIO.
- · Externalization, consumerization, and democratization of IT
- Which technologies and services are on the horizon that we need to prepare for, both specific to the higher education environment and innovations coming from the business world?
- · The impact of cloud computing on the institution and the IT organization

Join your peers at the ACUTA Strategic Leadership Forum to learn how they are taking advantage of this transformational moment to re-invent their organizations. There is no better source of wisdom and expertise. For more information on the program and presenters, go to http://www.acuta.org/wcm/acuta/pdf/forumbrochure2011.pdf. To register, go to http://www.acuta.org/sc11.

We hope to see you there!

Nominate Now for ACUTA Ruth A. Michalecki Leadership Award The nomination deadline for the 2011 ACUTA Ruth A. Michalecki Leadership Award is January 14. This award recognizes outstanding leadership among the ACUTA membership. Please take a moment to nominate someone today.

Complete information, including the evaluation criteria, online nomination form, and accomplishments of previous recipients, can be found at www.acuta.org/ram.

ACUTA extends appreciation to PAETEC for sponsoring this award.



Kevin Tanzillo Dux PR kevin@duxpr.com

Doing More with Less, But in a Good Way

Before we get started, allow me to wish everyone a happy new year, with the hope that your 2011, though only a few days old, is off to a great start. May your troubles be few and your budgets be generous.

Speaking of budgets, there's one ominous phrase that anyone who does the budgeting hates to hear. It is "doing more with less." Now, that negativity applies mostly when

someone else tells you that is what you have to do. When you find out that you actually can do more with less, well, that falls into the good news category.

And that may just be the case when it comes to data centers, according to a recent prognostication from the folks at Gartner, the analyst group.

They're saying that thanks to new data center designs, coupled with other technological advances, we'll be seeing up to 300 percent growth in storage capacity—while at the same time reducing necessary floor space by 60 percent—within the next few years.

With many data centers hitting their limit in terms of available space or power allocation, this is definitely a bright spot on the horizon. Gartner points to new virtualization options, the latest application and middleware software, advances in storage capacity, better processor performance, and enhanced cooling technologies as the drivers behind the predicted improvements in data center efficiencies.

If you run your school's data center, or work closely with the people who do, then you know that the traditional approach to power and cooling issues is to spread out racks across a larger floor space. But many data centers simply don't have that option any more, since they are having to add servers to keep up with the volumes of data to be stored, and floor space is now more precious than ever. And of course more crowding of servers into the existing space requires more power for operating the equipment and keeping it cool.

Gartner says the urgent need among enterprises of all kinds to increase the productivity and efficiency of their data centers is what is compelling equipment and solutions providers to come up with the better approaches that are starting to shake up the market. Noting that an "efficiently designed and implemented data center can yield significant improvements," especially in the face of underutilization of IT resources and underpopulation of racks, Gartner says the new solutions are being designed for much higher efficiency in terms of power utilization and space allocation.

However, Gartner sees the current situation (jamming the equipment in and dealing with its power and cooling challenges as best you can) extending into about 2012. At that point, perhaps those improvements in capacity and reductions in floor space will kick in to full effect. If the data center equipment really does more for the money, and the efficiency reduces your space needs and cooling costs, it just might be possible to do more with less ... in a good way.

As always, if there are specific topics you would like to see covered in this space, please let me know via e-mail at kevin@duxpr.com.

Washington Update Newsletter for ACUTA Members

In our continuing efforts to keep ACUTA members informed of the latest developments in response to the current economic situation, we are providing a link to the newsletter, *Washington Update* from Dow Lohnes, ACUTA's legal counsel.

The newsletter is updated approximately four times per month and posted on the ACUTA website. From the homepage at www.acuta.org, click on Legislation and Regulation on the menu bar. The Washington Update is listed under "Broadband Stimulus Package." Previous copies are also posted for your reference.

Information specific to ICT issues may be found in the "Broadband, Broadcast and Intellectual Property Issues" section. General information on higher education issues is in the section on "Higher Education." Colleges and universities that are affiliated with health care institutions may also be interested in the information under "Health Care."

Feel free to share this link with others at your institution or company.

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Video Surveillance Technology

Ron Walczak RCDD, CWNA/CWSP Walczak Technology Consultants, Inc.

November marked the 20th anniversary of the Jeanne Clery Act which requires institutions of higher learning to submit annual security reports listing crime statistics for the previous three years. Your campus crime rate may be an uncomfortable topic to discuss, yet it is one that must be proactively and diligently addressed; and in doing so, you make your campus a safer place to work, study, and live. One crime prevention tool that is becoming more and more popular is video surveillance. Video surveillance on campus is exploding from a dozen cameras watching computer labs to coverage of entrances, lobbies, hallways, and in some cases, the entire campus. This dramatic increase in the use of video brings with it some serious engineering (mechanical, network, and perhaps most difficult, social) effort.

The final design must accommodate a cohesive strategy that defines and defends the intended use.

- 1. Who is the system watching, who is the system protecting?
- 2. Who is allowed to view the images?
- 3. What problems (current and anticipated) is video surveillance expected to solve?
- 4. When is video surveillance required (time of day, events, 24X7)?
- 5. When will university personnel view camera feeds (real time or just archives)?
- 6. Where is it appropriate to install cameras to achieve the desired surveillance?
- 7. What are the legalities involved in video surveillance? (This is not intended to be legal advice.)
- 8. How will policies be communicated/enforced?

Designing a camera system is labor intensive and requires boots on the ground. While there are a variety of video design tools available, they cannot substitute for eyeballing a view to identify obstructions, lighting and other factors that will diminish the camera's effectiveness.

I will present a session on video surveillance at ACUTA's Annual Conference (details at www.acuta.org/sc11), and I invite you to come learn what these cameras can and cannot do. This session will provide you with an understanding of the differences and improvements offered by digital cameras over their analog counterparts, providing some practical advice for deploying network cameras and the software that runs them. We will also look at some inexpensive (and free) tools that can help you design a system using Google Earth views and building floor plans.

Ron Walczak is a long-time member of ACUTA, a regular contributor to our publications, and a frequent speaker ot our events. Reach him at ron@walczakconsultants.com.

Forensic Tools: Keeping up with the Bad Guys

Gary Audin
Delphi, Inc.
delphi-inc@att.net

We know about forensic tools for our desktops and laptops. But what about mobile devices, cloud computing and the computers in vehicles? There is also the issue of wiretapping VoIP calls. According to the National Institute of Justice (NIJ), part of the Department of Justice (DOJ), we are behind in developing and delivering forensic tools for these technologies.

As we move into newer forms of computing devices such as smartphones that are used in business, these devices need to be protected from invasion. Even game consoles and the emerging Internet capabilities of TVs pose security problems.

Let's look at cell phones. They come with various capabilities, multiple operating systems, and thousands of apps. We can send and receive e-mail, access the Internet, download an ever-expanding number of entertainment sites, send SMS, MMS, and VoIP. What is stored in your cell phone? It may be very rewarding to a hacker to access it and steal information.

The evolution of the cell phone from 1G to 3G and now 4G devices opens up even more issues. Memory has expanded, operating systems are becoming well known, computing power has increased and the amount of information transmitted, received, and stored has substantially increased. All these factors increase the attraction and advantages to those breaking security.

Forensic tools are used to locate and process evidence of hacking and invasion of the cell phone. The subscriber identity module (SIM) card stores this data. One problem is that information can be stored in many file locations. Some of the previously non-relevant storage area may become relevant, and most forensic tools do not help in this analysis. The problem is compounded by the number of cell phones on the market as well as the number of generations of cell phones still in use.

You may have seen the introduction of game consoles that can be used with a TV for Internet access. Don't you think that remotely working at home may be done through the TV and game console? At this time, these devices have small memory. The data will probably be written over frequently, thereby destroying any relevant data for forensic tools to access. The game consoles do not save browser history and sites accessed.

Cloud computing is another problem. The lack of hard drive use and the use of remote applications complicates forensic analysis. When data is stored in a virtual environment, it will be hard to prove that the data stored is original data.

The growth of VoIP calls, both for consumers and the enterprise, opens another area. Call log data, signaling, and the calls themselves pose additional problems for forensic tools.

Finally, the car manufacturers are promoting their in-car computers with access to the Internet. Event data recorders (EDR) in the car can be used for accident investigation. What if the EDR data has been compromised or modified to change the recorded information; can the EDR be relied upon for criminal and civil cases? The NIJ is seeking answers to these problems by working with the industry. Research proposals are being sought by the NIJ as well as the demonstrations and evaluations of existing tools that solve some of the forensic problems. The funding for projects in this area can be as high as \$500,000. The Computer Forensic Tool Testing (CFTT) program is described at http://www.cftt.nist.gov/.

The goal of the CFTT project at the National Institute of Standards and Technology (NIST) is to establish a methodology for testing computer forensic software tools by development of general tool specifications, test procedures, test criteria, test sets, and test hardware. The results provide the information necessary for toolmakers to improve tools, for users to make informed choices about acquiring and using computer forensics tools, and for interested parties to understand the tools' capabilities. A capability is required to ensure that forensic software tools consistently produce accurate and objective test results. Our approach for testing computer forensic tools is based on well-recognized international methodologies for conformance testing and quality testing.

The FBI's Director, Robert Mueller, recently visited Facebook and other technology firms to discuss the FBI proposal that would make it easier to wiretap communications. The FBI is proposing that firms like Facebook design their systems to intercept and decrypt messages. In the proposal, international-based services would have to pass their traffic through U.S.-based servers so they can be wiretapped.

Enterprises may not like these efforts by the DOJ and FBI. Enterprises may want to participate in the FBI proposal review. They may also want to look closely at what devices will be allowed to access and use their internal information services. The continued addition of new device and computing models like cloud computing will make security and privacy even bigger issues for the enterprise.

This article appeared on November 28, 2010, at www.nojitter.com. It is used here with permission from the author.



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Board Report

December

George Denbow
Univ. of Texas, Austin
ACUTA Secretary/Treasurer
george.denbow@mccombs.
utexas.edu

The Board met by conference call on December 1 and approved the following items.

- · Monthly Committee Minutes and Reports
- Committee Appointments: Carol Swartz of Sentri, Corporate Liaison Committee
- Monthly Collaboration Report
- · Membership Recruitment Report

Final Recommendations of Educational Offerings Task Force: Mr. Fuoco recommended that the Board approve the 5 items. General discussion was held. A motion was made and seconded to accept the report. Following additional discussion, the motion was passed.

CLC Proposal for Seminar Exhibition Hours: Mr. Kovac discussed the recommendation of the CLC to eliminate the Tuesday afternoon exhibit session (2-3 pm) and make up the lost time somewhere within the seminar schedule, not to take effect until the 2011 Summer Seminar, at the earliest. The majority of the seminar exhibitors who responded to the follow-up survey (73%) were in favor of an additional networking session, or Happy Hour, in the exhibit hall on Monday evening. Some discussion was held as to the pros and cons of the change. Mr. Kovac suggested that this proposal be forwarded to the Membership and Program committees for review.

The Board approved the slate of candidates for the 2011 election (see page 1).

Respectfully submitted,

George Denbow ACUTA Secretary/Treasurer

Thanks to Event Sponsors for 2010

At ACUTA conferences and seminars you will notice that many events and items are sponsored. This means that a vendor has contributed the funds that make that amenity or event affordable for ACUTA. It enriches our events to have a special dinner and entertainment on Monday night, to have portfolios and pens, to enjoy coffee breaks and snacks, and much more.

The following companies have sponsored in the past year. Please thank them as you have occasion and include them in your RFPs.

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ShoreTel, Inc.

ACUTA 2011 Event Calendar

Winter Seminar
January 9-12
Phoenix, AZ
Pointe Hilton
1. Voice Communication Trends
2. The Unwired Campus—
Where the Wires Aren't

Annual Conference April 3-6 Orlando, FL Hilton Bonnet Creek

Summer Seminar
July 17-20
Baltimore, MD
Hyatt Regency
1. To Eternity & Beyond—
Emerging ICT Technologies
2. Funding ICT Services—
No Free Lunch

Fall Seminar
October 9-12
Boston, MA
Boston Park Plaza
1. Emergency Communications
Management
2. Supporting Users Communi-

cating on the Move

Info Links

Randy Hayes
'Jniv. of Northern Iowa
randal.hayes@uni.edu

Frequently, vendors, associations, governmental bodies, and others provide white papers and other informational documents which are announced through a variety of media sources. While some admittedly have a certain slant or opinion, others are quite objective; however, they often contain valuable information. Below are links to selected documents.

- Free Press Restoring FCC Authority to Make Bband Policy: http://www.freepress.net/files/Restoring_FCC_Authority_to_Make_Broadband_Policy.pdf
- PPI The Coming Communications Boom?: https://prodnet.www.neca.org/publicationsdocs/wwpdf/111610ppi.pdf
- ITU Leadership Imperative-The Future Built on Broadband: Executive Summary: http://www.broadbandcommission.org/report2.pdf
 Full Report: http://www.broadbandcommission.org/report1.pdf
- CP/ADC FTTX Networks: http://connectedplanetonline.com/images/CP-ADC3-WhitePaper-v4.pdf
- EU Broadband Access in the EU as of July 2010: http://ec.europa.eu/information_society/newsroom/cf/itemlongdetail.cfm?item_id=6502
- Ofcom International Communications Market Report 2010: Full Report (419 pages): http://stakeholders.ofcom.org.uk/binaries/research/cmr/753567/icmr/ICMR_2010.pdf

Download Sections of Report: http://stakeholders.ofcom.org.uk/market-data-research/market-data/communications-market-reports/cmr10/downloads/

- UCSD Paper on History Sniffing: http://cseweb.ucsd.edu/~d1jang/papers/ccs10.pdf
- FTC "Do Not Track" Web Activity Privacy Proposal: http://www.ftc.gov/os/2010/12/101201privacyreport.pdf
- GAO Lifeline/Linkup Programs & Better FCC Mgmt: https://prodnet.www.neca.org/publicationsdocs/wwpdf/113010gao.pdf
- FCC Working Paper...Broadband Satisfaction: http://www.fcc.gov/Daily_Releases/Daily_Business/2010/db1206/DOC-303263A1.pdf
- FCC Working Paper...Broadband Decisions: http://www.fcc.gov/Daily_Releases/Daily_Business/2010/db1206/DOC-303263A1.pdf
- ETI Two Articles Favoring Title II Broadband Reclass: https://prodnet.www.neca.org/publicationsdocs/wwpdf/12610eti.pdf
- D. Morris Article Opposing Title II Broadband Reclass: http://www.duanemorris.com/articles/static/manishin_icarus_fall2010.pdf
- FCC Internet Access Services: http://www.fcc.gov/Daily_Releases/Daily_Business/2010/db1208/DOC-303405A1.pdf
- OECD Geographically Segment Regulation for Telecom: http://www.oecd-ilibrary.org/docserver/download/fulltext/5km4k7mggw7f.pdf?expires=1292251749&id=0000&accname=guest&checksum=A0CADF0CE544CAF47E2E79407814FEF8
- Stanford Net Neutrality -Non-Discrimination Rule: https://prodnet.www.neca.org/publicationsdocs/wwpdf/121410stanford.pdf
- EEI Submission to FCC on Pole Attachment Issue: https://prodnet.www.neca.org/publicationsdocs/wwpdf/121410edision.pdf
- Speed Matters Internet Speeds (take with grain of salt!): http://speedmatters.org/content/internet-speed-report
- NTIA BTOP Overview of Grant Awards: https://prodnet.www.neca.org/publicationsdocs/wwpdf/121410ntia.pdf
- NTIA Commercial Data Privacy in the Internet Economy: http://www.ntia.doc.gov//reports/2010/IPTF_Privacy_GreenPaper_12162010.pdf
- Phoenix Center Market Power & Forbearance Issues: https://prodnet.www.neca.org/publicationsdocs/wwpdf/121610phoenix.pdf
- GAO FCC Must Improve Mgmt. of Rural Health Care Prgm: http://www.gao.gov/new.items/d1127.pdf

Board of Directors 2010-11

BOARD OF DIRECTORS

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Welcome New Members

Institutional Members

Central College, Pella, IA. T1
Lee Vande Voort, CIO (641/628-5152)vandevoortl@central.edu
Colby-Sawyer College, New London, NH. T1
Kevin Smith, IT Manager (603/526-3316)kevin.smith@colby-sawyer.edu

Check It Out: Press Releases, Job Postings, RFIs/RFPs, Special Deals, and Corporate Webinars

The ACUTA website is a useful tool for communicating with other members, whether you've got some exciting news to share, a position to fill, or a project for which you need a vendor. Check the website for the latest postings frequently. Here are items that have been posted since our last eNews.

PRESS RELEASES

· Talk-A-Phone's Certification Program

JOB POSTINGS

Help your colleagues who are looking for work! To send job postings, go to www.acuta.org. Click on one of the jobs listed there and you will link to the jobs we have now and a link where you can post a job.

- · Associate Chief Information Officer, Portland State University, Portland, OR
- · Chief Information Officer, Whitman College, Walla Walla, WA
- Systems Software Programmer (multiple positions), SUNY Buffalo
- Computer Operator-Applications Administrator, SUNY Buffalo
- Communications Systems Engineer, SUNY Buffalo
- Network Engineering Director, Northern Illinois University, DeKalb, IL
- · Network Engineering Research Associate, Northern Illinois University, DeKalb, IL
- Web Manager & Web Designer (2 positions), Park University, Parkville, MO
- · Network Security Administrator, Delaware Valley College, Doylestown, PA
- Technology Support Coordinator & Applications Analyst (2 positions), Miami University, Oxford, OH

RFIs/RFPs

No new RFPs have been posted this month.

SPECIAL DEALS!

Watch the website for new Special Deals!

FREE WEBINARS HOSTED BY ACUTA CORPORATE MEMBERS

Many free webinars are available through ACUTA Corporate Members. Check the website at www.acuta.org/corporatewebinars to see what is currently available. (Corporate members e-mail Amy Burton at aburton@acuta.org to get your free webinars listed.)