ACUTA eNews JANUARY 2012 Vol. 41, No. 1
Board Approves Slate of Nominees

Every Vote Counts!

The Board of Directors presents the slate of nominees to the membership for election to the Board for 2012–13. The new officers’ terms begin at the close of the Annual Conference May 2. The election is conducted electronically using Web-based survey software to verify and count results. Each primary (voting) institutional representative 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:
  Matthew Fuoco, University of Kansas Medical Center
  Ron Kovac, Ball State University
- For Director-at-Large (2 positions open):
  Simeon Ananou, Slippery Rock University
  Bruce Barrett, Community College of Rhode Island
  Adrienne Geralds, Rutgers University
  Walt Magnusson, Texas A&M University
  Sharon Moore, Smith College

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.

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Boston College is in the middle of a ten-year plan of capital construction and renovation. Several years ago the university purchased a 48-acre parcel of land diagonally across the street from our main campus that effectively doubled the campus footprint. That parcel, now known as the Brighton Campus, was previously owned by the Catholic Arch Diocese of Boston. The campus had several buildings spread among the rolling wooded landscape and centered between residential neighborhoods on all sides. Over the past five or six years, almost all of those buildings have been renovated and updated for the needs of the university.

As the Brighton Campus was being planned, we knew that we wanted to take a fresh look at the way we built communications infrastructure in new buildings. It made sense to invest in newer IP telephone technologies, depend more on fiber-optic cables instead of copper, and to build out a dense deployment of 802.11n wireless. As a result of this new posture, we instituted the following changes to our communications infrastructure designs.

**Boston College ITS Network Services Standards Document**

This document, based on the BICSI 25000 standards but tailored to the specific layouts and methods of Boston College, is given to the building architects and is fully coordinated among the various electrical, audio visual, HVAC, plumbing, and other associated engineering groups. We updated this document prior to beginning these projects and gained approval for the changes from the Facility Services and Capital Planning groups at BC. Going forward, the following changes would be made to the infrastructure designs of new or renovated buildings.

**Network Room Power**

Our new requirements involved a change to the way we wanted our network rooms connected to building power. Our old design involved feeder circuits from the electrical plant providing isolated power and grounding to our stacked network rooms. We would then use rack-mounted UPS systems to protect our network and communications equipment from power drops, sags, and other related conditions. The UPSs would only provide this level of protection and were not sized to sustain the network during power outages over long periods of time. With VoIP, we wanted to change this design to accomplish two things: (1) eliminate the rack-mounted UPS systems and their associated operational, capital replacement, and maintenance costs and (2) to keep the network up on generator power during power outages. We accomplished this by having an appropriately sized building UPS installed that tied in the network room feeder circuits, and then connecting that building UPS to the building's emergency generator.

**Outside Cable Plant Changes**

Using VoIP telephones instead of traditional digital or analog phones allowed us to greatly minimize our outside copper plant. Instead of installing 800 or 1,000 pair of copper into the building, we now only require about 100 to 200 pair. This reduces the amount of fuse protection and wall space needed to terminate and ground the cables. Today, minimal services still use copper, such as fire alarm systems and elevator phones. Over time, we expect these services will likely run over fiber as well.

**Inside Cable Plant**

Over the past few years, all of the renovation and construction at BC has been either academic or administrative buildings. Within these buildings we have not made any changes to the amount of Category 6 copper we pull to each faceplate. We still bring two CAT 6 cables to each faceplate and an additional Coaxial cable for locations that require connections to the CATV plant. This will change dramatically as we change our design for residential buildings. We are presently designing a new residential building, and the standard for that building will change to one CAT 6 cable per faceplate and only one active wired drop per bedroom. This change will reduce the amount of active ethernet ports we install by approximately 50%, the amount of CAT 6 by about 40% and the amount of outside plant copper pairs by about 85%.
POE 10/100/1000 Switches

We have changed the architecture we use in our network rooms from expensive chassis based systems to less expensive stackable switches. The MDF switch is still a chassis based system, but upper IDF network rooms are all stackable switches. The equipment is made by the same vendor we have used throughout campus, so we still manage the ports and configure them the same way. We also save on the annual maintenance; the stackable switches come with a lifetime warranty instead of an annual maintenance contract. Our new IP switch design saves the university about 60% over previous designs. However, these savings are offset somewhat by added costs for power and added wireless.

VoIP Telephones

These new buildings have “hard” IP telephones installed throughout. Our approach to VoIP was to implement this technology in phases, based upon the user needs and development of UC environments. In our minds ‘VoIP’ meant the virtualization of the copper plant onto the IP backbone network. In the future using UC and/or SIP, we see that as the virtualization of the entire PBX architecture. We are just getting SIP phones to work on our network, but are not ready to convert all of these VoIP sets to SIP until we’ve fully vetted the architecture and have it working to our satisfaction.

Wireless Access Points and 10G building Trunks

Our new networking standard includes a dense deployment of 802.11n throughout our renovated and newly constructed spaces. In academic/administrative buildings, wireless is still considered an overlay of the wired IP network. In student residence buildings, it is considered the primary network. Providing high bandwidth 802.11n wireless requires the building network uplink to be upgraded from, what was typically 1G or 2G, to 10G or 20G to the IP distribution layer routers.

So far these changes have gone very well and provided us an environment that keeps our wireless networks and IP phones up during power outages, and is less expensive to operate and maintain. For more information, feel free to contact me at harrinet@bc.edu.

The ACUTA Awards Committee invites nominations for the 2012 ACUTA Ruth A. Michalecki Leadership Award (www.acuta.org/ram). This annual award recognizes an outstanding leader among the institutional and corporate affiliate membership.

The person selected for this award:

• Engages in activities that have produced results directly benefitting the ACUTA organization and/or the broader higher education community
• Motivates and fosters collaboration to accomplish goals, objectives, and the mission of his or her institution while demonstrating exceptional leadership qualities
• Actively participates in and promotes the education, professional development, and mentoring of other professionals
• Demonstrates initiative—the ability to take charge by creating or developing a program, project, or activity that impacts the community
• Demonstrates leadership in the communications technology industry

We encourage you to nominate someone by completing the nomination form (link to www.acuta.org/ram). There, you will also find a listing of previous recipients and their accomplishments.

Deadline for nominations is January 20. Nominees must be representatives of ACUTA institutional member schools, corporate affiliates, or associate members.

ACUTA extends appreciation to Windstream for sponsoring the award again this year.
Welcome to the latest edition of the ACUTA Member Benefit of the Month. Each month we spotlight one of our many member benefits and provide information on how all members can get the most from their participation. This month we will focus on the monthly electronic newsletters sent to all members—the ACUTA eNews and Leg/Reg Update.

**ACUTA eNews**

The eNews is ACUTA's monthly connection with all members. This newsletter is sent out around the beginning of each month and is packed with association news, member stories, timely information about hot topics, and much more. And if you miss an issue, don't worry; past issues are archived online.

ACUTA members may submit articles as well as request information on certain topics at anytime. (Contact Pat Scott, ACUTA's Director of Communications, at pscott@acuta.org or 859/278-3338 x221 for more information.) And as an extra bonus, any school member who submits an article for the eNews will receive a Barnes and Noble gift card as a small token of gratitude for their assistance in making the eNews great!

**ACUTA Legislative/Regulatory Update**

The Legislative/Regulatory Update, or Leg/Reg Update as it is more commonly known, is a monthly electronic newsletter summarizing federal regulatory and legislative developments of interest to information communications technology (ICT) professionals in higher education. This piece is based primarily on information provided to the ACUTA Legislative/Regulatory Affairs Committee by attorneys Kenneth D. Salomon and J.G. Harrington of Dow Lohnes Government Strategies LLC, a law firm in Washington, DC, with extensive ICT and media expertise. It is sent out around the 15th of each month and, like the eNews, is also archived online. If you have any questions about information contained within any of the Leg/Reg Update, please contact Corinne Hoch, ACUTA's Executive Director, at choch@acuta.org.

We hope this information on the ACUTA newsletters has been helpful. Please contact Amy Burton with any questions. (aburton@acuta.org, 859/278-3338 x240)

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**Today's ACUTA for Today's CIO**

J. Keith Fowlkes, M.A., M.B.A.
Vice Chancellor for IT/CIO
The University of Virginia's College at Wise
fowlkes@uvawise.edu

Early in my career, I knew of ACUTA as an organization to inform and promote the interests of telecommunications professionals in higher education. Since I began my career in a small institution, I needed to be familiar with many different areas of technology to do my work. I was interested in ACUTA because its publications could help me be more informed on specifically data networking and telecommunications topics. Today, many years later, my interest in ACUTA is for a much broader reason.

As a CIO today, I rely on ACUTA's resources for a larger perspective on new technology trends, new federal regulations, and organizational policy development as well as new ideas in technology planning and management. ACUTA has evolved through the years to encompass the needs of most all areas of information technology, and it has a long history and substantial body of expertise within its membership. In contrast to other similar organizations, ACUTA has kept contact with the needs of its members and their unique institutional "in the trenches" goals.

Today ACUTA is an organization that sees and communicates the broader picture of information technology while still realizing that this includes the difficult daily issues that CIOs must face. Staff communications, customer relations, and policy formation as well as a variety of technical topics are covered in ACUTA's publications and at ACUTA events, making the organization helpful to technology staff as well as technology leadership. Today's ACUTA truly meets the broad needs of information technology leadership in higher education.
ACUTA Webinar

Wednesday, February 15 1:30-2:30 p.m. Eastern Time

The Challenges of Mobile Connectivity

ACUTA is very excited to announce the second of four webinars to be offered free of charge this year to ACUTA members. As a benefit of membership, an unlimited number of employees of your university or company may register for this webinar without having to pay a registration fee. Nonmembers are welcome to participate for a nominal fee.

What You Will Learn

Since 2007, Arthur Brant and his team at Abilene Christian University have been an integral part of a mobile learning initiative that has placed a mobile device in the hands of every full-time undergraduate student with the expectation that mobility will be integrated into the classroom. Through this initiative, ACU has learned many lessons about mobile connectivity and requirements to successfully integrate mobile devices into teaching and learning. On this webinar, Arthur will share the observations, challenges, and solutions that have enabled ACU to support mobile devices and a mobile learning initiative.

Registration: ACUTA members: $0; Nonmembers: $129

Please register with ACUTA no later than Friday, February 10.

Special Offer to Nonmembers

As a special offer to non-members, if you participate in this webinar and then purchase an ACUTA membership within 90 days, $40 will be credited to your initial membership dues.

Please direct questions regarding content to Donna Hall, ACUTA Director of Professional Development, or phone 859/278-3338.

Questions regarding registration should be directed to Michele West, ACUTA Director, Membership Services, or phone 859/278-3338.

Watch the ACUTA website and email mid January for registration information.

Board Report

December 2011

Riny Ledgerwood
San Diego State University
ACUTA Secretary/Treasurer
rledgerw@mail.sdsu.edu

The Board met via conference call on December 7, 2011, and approved the following items:

- October 2011 Financial Statements
- Monthly Committee Minutes and Reports
- Committee & Subcommittee Appointments:
  1. Online Learning Subcommittee: Cindy Phillips, Northern Illinois Univ.; Andrew (Drew) Perry, Murray State University
  2. Legislative/Regulatory Affairs Committee: Greg Haledjian, EDUCAUSE
- Membership Recruitment Report
- Slate of Candidates for ACUTA Board 2012-2013 (See page 1.)
- Proposal for the Jeri Semer Volunteer Recognition Award (to honor Jeri Semer, ACUTA Executive Director 1994 – 2011, who saw the future of the organization reflected in its active members, and who did much to foster the growth of the volunteer programs)
- Upcoming Strategic Planning Cost Estimate
- Proposal to provide Complimentary Emeritus Memberships to Former ACUTA Leaders
- Proposal to Establish a New Member Category for “Members in Transition” (to establish a new individual member category to serve unemployed former members of ACUTA while they are looking for a new job)
- Proposal for Annual Convention Event App (to enhance the experience for 2012 Annual Conference attendees and exhibitors by providing a mobile app, an interactive smartphone application designed to improve communication before, during, and after the Conference)
- Proposal to offer an honorarium to institutional members who submit campus articles for publication in the eNews

Respectfully submitted,

Riny Ledgerwood
ACUTA Secretary/Treasurer
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.

- **ONCE – National Counterintelligence Strategy (Cyber):**
- **ONCE – Foreign Economic & Industrial Espionage (Cyber):**
- **Vision Mobile – Mobile Platforms—Clash of Ecosystems:**
- **FCC – Staff Analysis/Findings – AT&T/T-Mobile Merger:**
- **Abilene Christian U – 2010-2011 Mobile Learning Report:**
- **MovinCool – Avoiding Overheating IT Equipment in Winter:**
- **SIM – 2011 SIM IT Industry Trends Survey:**
- **EDA – Mobile Survey Summary:**
- **FCC – First Quarter 2012 Contribution Factor Proposal:**
- **USAC – USF Qtly Contribution Base Report for 1st Qtr 2012:**
  [http://www.usac.org/about/governance/fcc-filings/2012/Q1/USAC%201Q2012%20Contribution%20Base%20Filing.pdf](http://www.usac.org/about/governance/fcc-filings/2012/Q1/USAC%201Q2012%20Contribution%20Base%20Filing.pdf)
- **USAC – USF Fund Size Projections Report for 1st Qtr 2012:**
  [http://www.usac.org/about/governance/fcc-filings/2012/Q1/Q12012%20Quarterly%20Demand%20Filing.pdf](http://www.usac.org/about/governance/fcc-filings/2012/Q1/Q12012%20Quarterly%20Demand%20Filing.pdf)
- **FCC – Telephone Subscribership in the United States:**
- **FCC – 3rd Report on Domestic/Int’l Satellite Comm. Services:**
- **NTSB – Fact Sheet on Distracted Driving:**

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**Do a Friend a Favor—Invite a Colleague to ACUTA!**

More members means a stronger professional network and more resources for everyone.

Are your campus neighbors not members of ACUTA?

Invite them to tour the website and see what they’re missing today!

[www.acuta.org](http://www.acuta.org)
How Transdisciplinarity Will Help Workers Thrive in a Complex World

James M. Fraleigh
Apollo Research Institute

If anything can be said of the future, it’s that it will become exponentially more complex on all levels. On the global scale, issues such as climate change, dwindling energy supplies, and public health crises will require teamwork across disciplines to pool talent and find solutions. Even those not engaged in such high-level work will have to manage growing amounts of seemingly unrelated information, as 21st-century jobs cease to be single-function tasks and require workers to integrate and interpret data from outside their immediate experience.

The ability to understand and integrate concepts across multiple disciplines has been called transdisciplinarity. As a product of our data-driven computational world and the need for workers to anticipate multiple careers over longer lives, it’s one of 10 key workforce proficiencies described in Future Work Skills 2020, a report by the Institute for the Future for Apollo Research Institute: http://apolloresearchinstitute.com/node/52.

Transdisciplinary thinking has the potential to foster innovative solutions that go beyond simple problem solving. When experts from two or more fields join forces to brainstorm a challenging problem, the results can be unexpected, and even beautiful. For instance, to solve an engineering problem in a new building, an architect might consult a biologist to understand how bone structures support an animal’s weight or guide a bird’s flight, then collaborate with a materials engineer to craft a striking, but safe, infrastructure. Transdisciplinary teams will use theoretical thinking and disparate skill sets to make the mental leaps that take ideas from sketches to marketplace.

Individual workers will also need to become conversant in disciplines that lie outside their degree program or work experience as they plan for a long, multi-employer career. They will become “T-shaped workers”: people who possess deep knowledge in one field, but are also familiar with a broad, lateral sweep of other disciplines that complement their primary proficiency. If you “hum a few bars” of one of those disciplines, a T-shaped worker’s curiosity and knack for cultivating multiple talents will help him or her “finish the tune.”

Higher education institutions, long oriented toward preparing students for careers via a single-major paradigm, are slowly beginning to provide transdisciplinary programs. Intercollegiate partnerships, and interdepartmental programs in which instructors from multiple fields share experience and solutions over a single course of study, are appearing in response to the need for well-rounded workers.

Equally important to transdisciplinary development is the habit of lifelong learning. People are remaining productive over longer life spans, and careers will lengthen to match. Open-minded, curious workers who absorb and meld experiences from multiple careers will find themselves better able to handle the cognitive demands of future jobs, and will have less trouble finding new employment as transdisciplinary competency becomes a highly sought-after trait.

Learn more at www.apolloresearchinstitute.com.
Committee Corner

In this column, we identify projects and activities of interest to our members. We won't have something from every committee each month, just the high points from those of special interest. We hope this will create more awareness of the contribution of our volunteers and perhaps inspire more members to take part in the work of the committees. Committee chairs are listed on the back page of the eNews.

The Environmental Scanning Committee is working diligently to develop a survey that will provide feedback that is both meaningful and useful for ACUTA members and programs going forward. Members who receive the survey are encouraged to respond to the survey in a timely way.

The Program/Content Committee is very busy with plans for multiple events, including the Winter Seminar and the Annual Conference.

At its November 29 meeting, the Online Learning Subcommittee focused on goals for the committee, topics and presenters for webinars for the coming year, and how to make the webinars more beneficial.

The Membership Experience Committee submitted proposals for two new programs to the Board that have both been approved: "Members in Transition" provides ACUTA membership for a limited time to members who are looking for a new position. Complimentary Emeritus membership will also be offered to past presidents, board members and committee chairs who retire.

The Young Professionals Subcommittee is excited to be hosting the Young Professionals Reception for the third year at the ACUTA Annual Conference. The committee is working on changes to make this gathering even more fulfilling for all young professionals in attendance.

The Board approved the Journal/eNews Subcommittee's proposal that we offer a modest honorarium for institutional members who submit articles for the eNews.

Thanks to Event Sponsors in 2011

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 possible for ACUTA attendees. It enriches our events to have breakfasts, lunches, and special dinners; 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.

4 EVENTS
CenturyLink Business
Vantage Technology Consulting Group
Verizon
Windstream
WTC Consulting, Inc.

3 EVENTS
Apogee
PosTrack Technologies

2 EVENTS
Comcast Business Class
Crown Castle
IPC Technologies

1 EVENT
Aastra
Alcatel-Lucent
American Tower
Avaya
AVST
Blackberry
CEECO
e2Campus
Executive Broadband Communications
Fujitsu Network Communications
Microsemi
Optelian
Ronco Communications
ShoreTel
Sidera Networks
SonicWALL
Sprint
Welcome New Members

Institutional Members

Bay de Noc Community College, Escanaba, MI, T1
Christine Williams, Exec. Dir. IT (906/217-4077)............................ williamc@baycollege.edu

CA State Polytechnic Univ., Pomona, CA, T4
John McGuthry, CIO (909/979-6360) ........................................ jwmcguthry@csupomona.edu

Frontier Nursing University, Lexington, KY, T1
Paul Stackhouse, IT Manager (859/253-3637) .................................... paul.stackhouse@frontier.edu

Lafayette College, Easton, PA, T1
John Fulton, Assoc. Dir. of Network Services (610/330-5650) ............. fultonj@lafayette.edu

Southwestern Law School, Los Angeles, CA, T1
Bo Suzow, Chief Information Systems Officer (213/738-6713) .......... bsuzow@swlaw.edu

Corporate Affiliates

Copper Members

Avcomm Solutions, Inc., Aurora, NE........................................ www.avcommsolutions.com
Brent Kreus, Acct. Dev. Specialist, 866/998-9991 (bkreus@avcommsolutions.com)
Avcomm Solutions Inc., is a female-owned company that provides high quality, cost-effective audio, video, and networking solutions. Avcomm partners with leading industry manufacturers such as Jabra, Logitech, Yamaha, Knopp, and Shure Networks.

Esnatech, Richmond Hill, Ontario ............................................ www.esnatech.com
Lee Ho, VP Marketing, 905/707-9700 (lee@esnatech.com)

Esnatech Unified Communications integrates voice, IM, video, and data to improve productivity, reduce operating costs, and enable your organization to communicate and collaborate more efficiently.

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
• Aastra New Attendant Application Provides Outstanding Call Handling Capabilities
• Oberon Announces New 2012 Catalog Agreements
• Aastra MX-ONE Receives Four Stars from Current Analysis

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.
• Network Engineer - Intermediate, DePaul University, Chicago, IL
• Telecommunications Engineer, Michigan Technological University, Houghton, MI
• Telecommunications Analyst, University of Maine, Orono, ME
• Vice President of Information Technology Services, Bethel University, Saint Paul, MN
• Senior Voice Engineer, University of Arizona, Tucson, AZ

RFIs/RFPs: Submit your RFI/RFP today!

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