

ECETDHA Business Meeting
CIEC – New Orleans, LA

Tuesday, February 12, 2008
5:00pm – 7:00pm

ECETDHA Business Meeting
Tuesday, February 12th at 5:30pm – 7:00pm
CIEC 2008 – New Orleans, LA

Note – the plan for this meeting is to reserve as much time as possible for a working session of the Assessment Test Project ‘Body-of-Knowledge’ team (and as many Association members as are willing to join in). For that reason, agenda items discussions will be held to a minimum.

Ron Land, Chair

Agenda

1. Call to Order (R. Land)
2. Approval of June Meeting Minutes* (R. Land)
3. Treasurer’s Report* (W. Buchanan)
4. Report on Mini-Grant Awards* (R. Land)
5. Nomination/Election of New Officers (R. Land)
 - a. Elections due next year – Secretary/Treasurer, 4-Year Rep., 2-Year Rep.
 - b. Be thinking of nominations or volunteering
6. Report on CTAA Activities (T. Hall)
7. IEEE Resources* (R. Land)
8. External P&T Database Update (R. Land)
9. Second Interface Article from the Association
10. Assessment Testing Project Update* (R. Land)
 - a. Status Update
 - b. Project Management Team
 - c. Body-of-Knowledge Team
 - d. Implementation Plan
11. Comments for Good of the Association
12. Adjournment of Business Meeting
13. Assessment Testing Project – Working Session (D. Clark/K. Beauchamp of SME)

* – Indicates attachments

Electrical and Computer Engineering Technology Department Heads' Association
Semi-Annual Business Meeting ** ASEE Annual Conference ** Honolulu, HI

Tuesday, June 26, 2007 at 7:00 a.m.
Room 303B - Honolulu Conference Center

Minutes

The meeting was called to order by the Chair, Ron Land, at 7:00 a.m. Members of the METDHA came by and were very appreciative of our refreshments which were arranged for by Tom Hall! The agenda for the meeting was distributed to all in attendance and approved. The meeting was begun with an introduction of all in attendance. The 25 attendees (two are missing here) were:

<u>Name</u>	<u>Affiliation</u>
Cal Poly Pomona	Gerald Herder
DeVry University	Amin Karin
Florida A&M University	Thomas Bellarmine
Kansas State- Salina	Saeed Khan
Michigan Technological U.	Nasser Alaraje
NJIT	Ron Rockland
Northwestern State U.	Tom Hall
Old Dominion University	John Hackworth
Penn State U.- Erie	Robert Weissbach
Prairie View A&M	Cajetan M. Akujuobi
Purdue University	Bob Herrick
RIT	Carol Richardson
RIT	Chance Glenn
RIT	John Stratton
Southern Poly	Brent Jenkins
SUNY-OCC	Ramesh Gaoukar
Texas A&M	Walter Buchanan
Texas A&M	Jay Porter
University of Dayton	Scott Segalewitz
University of Maine	Scott Dunning
Wayne State U.	Chih-ping Yeh
Weber State University	Bill Clapp
Western Washington U.	Todd Morton

Approval of the minutes of the February 8, 2007 meeting in Palm Springs was obtained by Ron Land.

The Treasurer's Report prepared by Walter Buchanan was reviewed and approved. The Association's current account balance stands at \$5,847.75. Membership as of this date stands at 84.

Proposed revisions to the association's By-laws were approved and are now noted in the By-Laws. The proposed Mini-grants Program new version was approved. The "Guidelines for ECETDHA Mini-Grants" and the updated "By-Laws" will be sent to the membership. Mini-grants of up to \$1,000 will be available to the membership. The Chair will notify the membership twice yearly about the application deadline for mini-grants. The grant guidelines were changed to show that proposals should be submitted electronically and to indicate eligible applicants included faculty and staff of programs/schools represented by a member of the association.

Bob Herrick of Purdue reported on the "External P&T Reviewer Database" and where we are going from here.

There was also a discussion of the "Assessment Testing Project" and an update on the status of potential funding from IEEE. This included:

- a. Discussion re. Refining Goal of Project
 - i. BOK/Specialty Modules
 - ii. B.S./A.S. programs

- iii. Incentives to Use Exam
- b. Identification of Resources/Volunteers from Association
 - i. Delineation of BOK & Key Specialties (Committee)
 - ii. Topic Experts/Question Developers
 - iii. Coordinators
 - iv. Funds/Other Resources
- c. Action Plan - Where to From Here

The CTAA Report was made by Tom Hall as follows:

a. Recruiting: Members are encouraged to visit TryEngineering.Org and look around the site. It has become very popular developed and presented by IEEE to help attract secondary school kids to engineering/technology. This site was designed to be discipline neutral. Any comments or suggestions can be forwarded to Tom Hall.

b. Retention: IEEE is working on a new project known as "Real World Engineering." IEEE has a request for proposals for workshops and discovery based projects on the web site below. Timelines are very short, but there is an honorarium of \$5000 for selected proposals.

<http://www.ieee.org/web/education/university/RealWorldEngineering>

c. IEEE Program Criteria Reviews:

- the proposed change to add "engineering standards" to the EET criteria has been forwarded to the Educational Activities Board for approval and submission to ABET as "proposed program criteria." Proposed criteria will most likely be included in the 2008-2009 TAC Criteria and not be effective until the 2009-2010 cycle.

- the Computer ET criteria will be reviewed by CTAA this year.

d. ABET General Criteria: There will be a new round of "harmonization" of criteria in the coming year. ABET is attempting to make the general criteria as standard as possible across the four accrediting commissions.

e. ABET PEV Training: ABET is assuming responsibility for training new Program Evaluators. IEEE will no longer conduct initial training of PEVs. The good news is that ABET will fund the training, including travel and lodging. This should help in efforts to recruit PEVs from industry and government. Training will include "pre-work" done on-line prior to a one-day "in-class" training session. Classroom training will consist primarily of a simulated visit with small groups and mentors.

Current officers of the ECETDHA are:

Chair: Ron Land
Past Chair: Tom Hall
Sec/Treas: Walter Buchanan
4-Yr Rep: Charlie Bachman
2-Yr Rep: Surinder Jain

Scott Segalewitz was elected the new Chair. The 2-year and 4-year reps will continue until we get on the new election schedule.

The meeting was adjourned at 8:15 a.m.

Respectfully submitted,



Walter Buchanan,
Secretary-Treasurer

Current Officers and Terms:

<u>Position</u>	<u>Current Officer Holder</u>	<u>Term Expires</u>
Chair	Ron Land	June 2008
Chair-elect	Scott Segalewitz	Moves to Chair in June 2008
Immediate Past Chair	Tom Hall	June 2008
Secretary/Treasurer	Walt Buchanan	June 2009
4-Year Representative	Charlie Bachman	June 2009
2-Year Representative	Surrinder Jain	June 2009

Treasurer's Report – February 1, 2008

Statement of Receipts – January 24, 2008

<u>Membership Dues Received:</u>		
July-Sept. 2006	\$975.00	
Oct-Dec. 2006	\$300.00	
Jan.-Mar. 2007	\$75.00	
Apr.- June 2007	\$300.00	
July-Sept. 2007	\$1,025.00	
Oct-Dec. 2007	\$575.00	
Jan. - Mar. 2008	\$75.00	
	<u>Total Membership Receipts:</u>	\$3,325.00
 <u>Interest Received:</u>		
July-Sept. 2006	\$19.43	
Oct.-Dec. 2006	\$22.72	
Jan.-Mar. 2007	\$23.37	
Apr.-June 2007	\$22.41	
July-Sept. 2007	\$22.37	
Oct. - Dec. 2007	\$20.18	
	<u>Total Interest Received:</u>	\$130.48
	<u>Total Interest Receipts:</u>	\$3,455.48

Statement of Expenditures – January 24, 2008

<u>Expenditures:</u>		
Conference Expenses-Land (CTAA 1/07)	\$330.15	
Endorsement Stamp	\$14.94	
Conference Expenses- Land (CTAA 6/07)	\$416.02	
Money Order Fees	\$5.00	
Conference Expenses- Land (SME 8/07)	\$828.45	
Conference Expenses - Land (CTAA 1/08)	\$495.50	
Mini-Grant - Dan Barbuto (+ bank fee)	\$652.00	
Mini-Grant - Dr. Steve Hsiung (+ bank fee)	\$962.00	
	<u>Total Expenditures:</u>	\$3,704.06

Statement of Cash Flows – January 24, 2008

<u>Beginning Cash Balance June 30, 2006:</u>		\$4,896.34
Membership Dues:	\$3,325.00	
Interest Received:	\$130.48	
	<u>Total Cash Received:</u>	\$3,455.48
	<u>Expenditures:</u>	\$3,704.06
	<u>Net Addition to Fund:</u>	(\$248.58)
	<u>Cash in Bank:</u>	\$4,647.76

Mini-Grants Awards Program

First Awards Made in January, 2008:

The Association's mini-grant program officially got off the ground last December with the acceptance of our first set of proposals. Seven proposals were submitted from seven different schools (Purdue, Old Dominion, Rochester Institute of Technology, Texas A&M –Corpus Christi, Dutchess Community College, Florida A&M, and University of Central Missouri). Funding requests ranged from a minimum of \$590 to the maximum permitted award of \$1000. All were quality proposals, but the Association guidelines permit no more than two awards each cycle. The awards in this inaugural cycle went to Dr. Steve Hsiung of Old Dominion University and Professor Dan Barbuto of Dutchess County Community College. Dr. Hsiung's award will support a workshop at ASEE's 2008 Annual Conference to demonstrate and distribute a newly-developed PIC microcontroller training system and associated curricular materials. Professor Barbuto's award will support the design and development of an inexpensive PLC trainer setup, including associated teaching materials, test programs, and demonstration circuits. Design and construction details and related curricular materials will be made available to Association members at the project's completion. Congratulations to both Steve and Dan. Full details of the proposal process and requirements can be found through the Association's link on the ETD website <<<http://www.engtech.org/>>>. Complete details of Steve's and Dan's projects can be found there as well.

Planned Update to Grant Award Guidelines:

The process of evaluating this first set of grant requests highlighted some weakness in the evaluation process. In their current form, the grant guidelines have only one specific requirement for proposals to be considered, and that is the project must have promise of "*benefit to the Association.*" While clearly an important constraint, this one criterion provides little guidance to the executive committee regarding exactly what should be considered in determining the expected "*benefit.*" As a result, the Chair with the help and concurrence of the executive committee will be proposing an update to the guidelines this spring. The proposed update will be e-mailed to the membership well in advance of the June meeting at ASEE in Pittsburgh so that an approval vote can be taken at that time.

IEEE Educational Resources

1. 'Try Engineering' webpage <<<http://www.tryengineering.org/home.php>>>
 - Lesson plans for a variety of technical topics – particularly good for introductory courses to intrigue new students or for introducing secondary school students to engineering and technology
 - Recruiting tools (introduce your local HS guidance counselors, teachers, and parents to these so they can pass them along to their students):
 - + “Explore Engineering”
 - + Play ‘engineering’ games
 - + Ask real engineers your question
 - + Find a university
 - + Investigate the lives of real engineers
 - Your organization can add programs to the site to advertise them to potential students
 - IEEE is also looking for input re. other useful information and/or specific topics that could be added to the site
2. Teacher In-service Program for HS – training for IEEE volunteers to work with HS teachers to bring engineering & technology subjects to pre-university students
3. Real-world Engineering Projects – call for projects from university faculty to design exciting, relevant projects for freshman engineering & technology students that require them to use critical thinking skills to solve engineering problems in a meaningful context and excite them about careers in technical fields.

Assessment Test Project Information

As of late December, the project to develop a prototype assessment test for electronic and electrical engineering technology graduates officially became a reality. Thanks to the sponsorship and endorsement of IEEE's outgoing Vice President of Educational Activities, Dr. Moshe Kam, the Institute has authorized \$75k to fund this project. Staff members from the Society of Manufacturing Engineers test development group, along with representatives of the IEEE, have been assigned the role of managing and guiding the development process, and volunteers from the Association have signed on to develop the technical details of a 'body of knowledge' to be covered by the test and to develop actual test questions. The management team and body-of-knowledge teams are listed below.

Current plans call for a draft of a prototype test to be available for review late this summer and ready for a trial run by the end of the year. Full details of the project plan can be found on the Engineering Technology Division website <<<http://www.engtech.org/>>>. Just click on the 'Organizations' tab at the top of the page and follow the link to 'ECET.'

Project Management Team:

- Debbie Clark (chair) – SME
- John Pan – SME
- Arnie Peskin – IEEE
- Carolyn Solimine – IEEE
- Tom Hall - IEEE/ECETDHA
- Ron Land – ECETDHA

Body of Knowledge Team:

- Bill Clapp, Weber State University
- Charlie Bachman, Southern Polytechnic State University
- Scott Dunning, University of Maine
- Michael Eastman, Rochester Institute of Technology
- Tom Hall, Northwestern State Univ.
- Ron Land, Penn State University-New Kensington Campus
- Beshara Sholy, Saint Louis University
- John Hackworth, Old Dominion University
- William Stanley, Old Dominion University
- Dave Loker, Penn State-Erie (part-time)
- Bob Dreyer, Chattanooga State Technical Community College (part-time)
- _____ (you can fill in your name here. There's always room for more!)
- _____ (you can fill in your name here. There's always room for more!)
- _____ (you can fill in your name here. There's always room for more!)
- _____ (you can fill in your name here. There's always room for more!)

ECETDHA Membership History

No	Institution	02/03	03/04	04/05	05/06	06/07	Member	2007-2008 Member	Lapsed/Attendee/Inquiree
1	Alabama A&M Univ.						Peter Romine		PROMINE@AAMU.EDU
2	Albany Technical Coll., GA			x	x		Bill Sutton		BSUTTON@ALBANYTECH.EDU
3	Alfred State Coll.		x	x	x	x	David J. Hunt	HUNTDJ@ALFREDSTATE.EDU	
4	Amarillo Coll., TX			x	x	x	Douglas Pickle	PICKLE-DL@ACTX.EDU	
5	Arizona State Univ.		x	x	x	x	Lakshmi Munukutla	LAKSHMI.MUNUKUTLA@ASU.EDU	
6	Austin Peay State Univ.						Adel Salama		SALAMAA@APSU.EDU
7	Baker Coll. - Owosso, MI			x	x		Tom Cunningham	TOM.CUNNINGHAM@BAKER.EDU	
8	Bloomsburg Univ.						Robert P. Marande	RMARANDE@BLOOMU.EDU	
9	Bluefield State Coll.						Roy Pruett		RPRUETT@BLUEFIELDSTATE.EDU
10	Bronx Comm. Coll.						Andrew Akinmoladun		ANDREW.AKINMOLADUN@BCC.CUNY.EDU
11	Buffalo State Coll.				x	x	Ilya Grinberg	GRINBEIY@BUFFALOSTATE.EDU	
12	Cal Poly Pomona	x	x	x	x	x	Gerald Herder	GHERDER@CSUPOMONA.EDU	
13	California Univ. of PA	x	x	x	x	x	Stanley Komacek	KOMACEK@CUP.EDU	
14	Camden County Coll.						Lawrence Chatman		LCHATMAN@CAMDENCC.EDU
15	Central Connecticut State Univ.		x	x			V. Rajaravarma	RAJARAVARMAV@CCSU.EDU	
16	Chattanooga State T.C., TN				x	x	Robert Dreyer	ROBERT.DREYER@CHATTANOOGASTATE.EDU	
17	Cleveland State Univ., OH			x	x		Harry W. Fox		H.FOX@CSUOHIO.EDU
18	Coll. of the North Atlantic, CAN						Norris Eaton		NORRIS.EATON@CNA.NL.CA
19	Columbus State Comm. Coll., OH						Joan Young		JYOUNG@CSCC.EDU
20	County Coll. of Morris, NJ	x	x	x			Venancio Fuentes		VFUENTES@CCM.EDU
21	County Coll. of Southern Nevada						Randy Harwood		RANDY.HARWOOD@CCSN.EDU
22	Delaware Tech. C. C.		x	x	x	x	Lester Link		LLINK@COLLEGE.DTCC.EDU
23	Delgado Comm. Coll., LA				x	x	Ramon Ariza		RARIZA@DCC.EDU
24	DeVry CET/EET Program Dir., IL						Edward A. Wilson		EWILSON@DEVRYCOLS.EDU
25	DeVry Univ. - Atlanta			x	x	x	George Austin		GAUSTIN@FACULTY.ATL.DEVRY.EDU
26	DeVry Univ. - Chicago			x	x		Stan Lan		SLAN@CHI.DEVRY.EDU
27	DeVry Univ. - Columbus		x	x	x	x	Rasoul Esfahani	RESFAHANI@DEVRYCOLS.EDU	
28	DeVry Univ. - Dallas			x	x	x	Cristian Penciu	CPENCIU@DAL.DEVRY.EDU	
29	DeVry Univ. - Denver		x	x	x	x	Martha Keul	MKEUL@DEN.DEVRY.EDU	
30	DeVry Univ. - DuPage			x	x		John Kronenburger		JKRONENB@DPG.DEVRY.EDU
31	DeVry Univ. - Georgia						Keith Wright	KWRIGHT@DEVRY.EDU	
32	DeVry Univ. - Houston			x	x	x	Luis Pablo Grijalva		LGRIJALVA@HOU.DEVRY.EDU
33	DeVry Univ. - Kansas City			x	x	x	Peter Kerckhoff	PKERCKHOFF@KC.DEVRY.EDU	
34	DeVry Univ. - New Jersey			x	x	x	Wieslaw Bury		WBURY@NJ.DEVRY.EDU
35	DeVry Institute of Tech., LIC, NY		x	x	x		Muhammad Malik		MMALIK@NY.DEVRY.EDU
36	DeVry Univ. - No. California				x		Mike Zohourian		MZHOURI@NY.DEVRY.EDU
37	DeVry Univ. - Orlando					x	Jack Alsaka	JALSAKA@ORL.DEVRY.EDU	
38	DeVry Univ. - Phila.			x	x	x	Suga N. Suganthan		NSUGANTHAN@PHI.DEVRY.EDU
39	DeVry Univ. - Phoenix		x	x	x	x	Gary E. Bryan		GBRYAN@PHI.DEVRY.EDU
40	DeVry Univ. - Seattle			x	x	x	Jimmie Russell	JRUSSELL@SEA.DEVRY.EDU	
41	DeVry Univ. - So. California		x	x	x		Amir Nilpour		ANILPOU@SOCAL.DEVRY.EDU
42	DeVry Univ. - Tinley Park						Colleen Vaughan		CVAUGHAN@DPG.DEVRY.EDU
43	Dutchess Comm. Coll.						Leah Akins	AKINS@SUNYDUTCHESS.EDU	
44	East Carolina Univ.						Andrew Jackson	JACKSONA@ECU.EDU	
45	Eastern Michigan Univ.				x	x	Bob Lahidji	BOBLAHIDJI@EMICH.EDU	
46	Edmonds Comm. Coll., WA						Mark Kaye Bredeson	MBREDES@EDCC.EDU	
47	Embry-Riddle Aeronautical Univ.				x	x	Nolan Coleman	COLEMANN@ERAU.EDU	
48	Essex County Coll., NJ						Bernard Zivotofski		ZIVOTOFSKI@ESSEX.EDU
49	Excelsior Coll., NY			x	x	x	Sohail Anwar	SXA15@PSU.EDU	
50	Fairleigh Dickinson Univ.	x					Mel Lewis		MLEWIS@FDU.EDU
51	Fairmont State Univ., WV			x	x	x	James Goodwin	JGOODWIN@MAIL.FSCWV.EDU	
52	Ferris State Univ.	x	x	x	x	x	Clare Cook	COOK@FERRIS.EDU	
53	Florence-Darlington TC, SC		x	x	x	x	Kamil Zakhour	KAMIL.ZAKHOUR@FDTC.EDU	
54	Florida A&M Univ.		x	x	x		Tom Bellarmine	GNANASIGAMANI.BELLAR@FAMU.EDU	
55	Grambling State Univ.						Johnny Patterson		PATTERSONJ@GRAM.EDU
56	Gulf Coast Comm. Coll., FL			x	x		Claude Mott		CMOTT@GULFCOAST.EDU
57	Idaho State Univ.			x	x	x	R. Scott Rasmussen	RASMSCOT@ISU.EDU	
58	ITT Technical Institute						Steve Shen		SSHEN@ITT-TECH.EDU
59	IPFW	x	x	x	x	x	Harold Broberg	BROBERG@IPFW.EDU	
60	IUPUI	x	x	x	x	x	Rich Pfile	RPFIL@IUPUI.EDU	
61	Iowa Western Comm. Coll.		x	x	x	x	Doug Corteville		DCORTEVILLE@IWCC.EDU
62	Kansas State Univ. - Salina		x	x	x	x	Saeed Khan	SAEED@SAL.KSU.EDU	
63	Kean Univ., NJ						Kamal Shahrab		SHAHRABI@KEAN.EDU
64	Kirkwood Comm. Coll., IA			x			David Newmister		DNEWMIS@KIRKWOOD.EDU
65	Lake Land Coll., IL					x	Michael Beavers		MBEAVERS@LAKELAND.CC.IL.US
66	Lakeland Comm. Coll., OH						David Bittner		DBITN@LAKELANDCC.EDU
67	Linn State Technical Coll., MO						David Phillips		DAVID.PHILLIPS@LINNSTATE.EDU
68	Louisiana Tech Univ.	x	x	x	x	x	Jim Eads	EADSJW@LATECH.EDU	
69	Marion Technical Coll., OH					x	Ed Margraff		MARGRAFFE@MTC.EDU
70	Metropolitan State Coll. of Denver					x	Parris Neal	PNEALL@MSCD.EDU	
71	Miami Univ. - Hamilton		x				Ayo Abatan	ABATANA@MUOHIO.EDU	
72	Michigan Technological Univ.				x	x	Nasser Alaraje		ALARAJE@MTU.EDU
73	Middlesex County Coll., NJ		x	x			Jack L. Waintraub		JACK.WAINTRAUB@MIDDLESEXCC.EDU
74	Milwaukee School of Engineering					x	Owe G. Petersen	PETERSEN@MSOE.EDU	
75	Minnesota State Univ.	x	x	x	x	x	William Hudson	WILLIAM.HUDSON@MNSU.EDU	
76	Missouri Western State Univ.	x	x	x	x	x	Virendra K. Varma	VARMA@MISSOURIWESTERN.EDU	
77	Monroe Comm. Coll., NY			x	x		Robert Novak		RNOVAK@MONROECC.EDU
78	Morehead State Univ., KY						Ahmad Zargari	A.ZARGARI@MOREHEADSTATE.EDU	
79	Mount Hood Comm. Coll., OR						Jack Fassel		FASSELJ@MHCC.EDU
80	Nashville State Technical CC, TN				x		Bill Maxwell		BILL.MAXWELL@NSCC.EDU
81	National Univ.				x	x	Shekar Viswanathan		SVISWANA@NU.EDU
82	New England Institute of Technology						Vin Scotto		VSCOTTO@NEIT.EDU
83	NJIT		x	x	x	x	Robert English	ENGLISH@ADM.NJIT.EDU	
84	Norfolk State Univ.						John H. Spurlin		JSPURLIN@NSU.EDU
85	North Carolina A&T Univ.						Derrek B. Dunn	DBDUNN@NCAT.EDU	
86	Northeastern Univ.	x	x	x	x		Jerry Tapper	JTAPPER@COE.NEU.EDU	
87	Northern Essex C.C., MA				x	x	Paul Chanley	PCHANLEY@NECC.MASS.EDU	
88	Northwestern State Univ.	x	x	x	x	x	Tom Hall	HALLT@NSULA.EDU	
89	NYC Coll. of Technology					x	Djafar Mynbaev		DMYNBAEV@CITYTECH.CUNY.EDU
90	Oklahoma State U.-Oklahoma City			x	x	x	Neal Willison	NAW@OSUOKC.EDU	
91	Old Dominion Univ.		x	x	x	x	John Hackworth	JHACKWOR@ODU.EDU	
92	Oregon Institute of Technology				x		Andy Sedlock		SEDLOCKA@OIT.EDU
93	Owens Comm. Coll.-Findlay				x		Glenn Rettig		GRETTIG@OWENS.EDU
94	Owens Comm. Coll.-Toledo				x		Nerur Satish		NSATISH@OWENS.EDU
95	Palo Alto Coll., TX				x	x	Doroteo Chavarria		DCHAVARR@ACCC.EDU
96	Passaic County Comm. Coll. NJ						Hisam Dada		HDADA@PCCC.EDU
97	Pellissippi State Technical CC, TN			x			Ken Swayne		KESWAYNE@PSTCC.EDU
98	Penn State - Erie	x	x	x	x	x	David Laker	DRL2@PSU.EDU	
99	Penn State - Harrisburg	x	x	x	x	x	Jerry Shoup	JFS1@PSU.EDU	
100	Penn State (ETCE)	x	x	x	x	x	Ron Land	REL9@PSU.EDU	
101	Pittsburg State Univ., KS				x	x	Randy Winzer	RWINZER@PITTSTATE.EDU	
102	Prairie View A&M Univ.						Cajetan Akujuobi		CMAKUJUOBI@PVAMU.EDU
103	Prentice Hall, VT						Benjamin Leonard		BENJAMIN_LEONARD@PRENHALL.EDU
104	Purdue Univ. - West Lafayette	x	x	x	x	x	Robert J. Herrick	RHERRICK@PURDUE.EDU	
105	Purdue Univ. - Calumet		x				Mohammad Zahraee		ZAHRAEE@CALLUMET.PURDUE.EDU
106	Purdue Univ. - North Central						Chris Smith		CSMITH@PNC.EDU
107	Queensborough Comm. Coll.		x	x	x	x	Stuart M. Asser	SASSER@QCC.CUNY.EDU	
108	Rhodes State Coll., OH				x	x	Thomas Selis		SELIS.T@RHODESSTATE.EDU
109	RIT	x	x	x	x	x	Mike Eastman	MGEIEE@RIT.EDU	
110	Rogue Comm. Coll., OR						Dave McKeen		DMCKEEN@ROGUECC.EDU
111	Saint Louis Univ.	x	x	x	x	x	Beshara Sholy		SHOLYBI@SLU.EDU
112	Savannah State Univ.						Kuppuswamy Jayaraman	JAYARAML@SAVSTATE.EDU	
113	Seattle Central Comm. Coll., WA		x	x			Lisa Sandoval		LSANDOVAL@SCCD.CTC.EDU

114	Seminole Comm. Coll., FL								Benjamin Taylor		TAYLORB@SCC-FL.EDU
115	Shawnee State Univ.			x	x	x			Carl Hilgarth		CHILGARTH@SHAWNEE.EDU
116	Sinclair Comm. Coll.	x	x	x	x	x			Jeff Donbar	JEFFREY.DONBAR@SINCLAIR.EDU	
117	South Dakota State Univ.			x	x	x			Teresa J.K. Hall	TERESA_HALL@SDSTATE.EDU	
118	Southern Illinois Univ.			x	x				Ron Marusarz		MARUSARZ@ENGR.SIU.EDU
119	Southern Poly		x	x	x	x			Charles Bachman	CBACHMAN@SPSU.EDU	
120	Southern Univ. and A&M, LA								Manjit S. Randhawa		RANDHAWA@ENGR.SUBR.EDU
121	Southwestern Indian Poly Institute								Nader Vadiiee		NVADIEE@SPIP.BIA.EDU
122	Southwest Tennessee Comm. Coll.				x	x			Lisa G. Jones	LGJONES@SOUTHWEST.TN.EDU	
123	Springfield Technical CC, MA				x				Gary J. Mullett		GMULLETT@STCC.EDU
124	Stark State Coll., OH					x			Frank A. Fuller	FFULLER@STARKSTATE.EDU	
125	Suffolk County Comm. Coll., MA								Peter Maritato		MARITAP@SUNUSUFFOLK.EDU
126	SUNY Inst. of Tech., Utica/Rome								Mary Rowlands		MARY.ROWLANDS@SUNYIT.EDU
127	Technical Career Institutes, NY	x	x	x	x				Seyed Ahvavi		SAKHAVI@TCICOLLEGE.EDU
128	Technical Coll. of the Lowcountry				x				Everett Feight		EFEIGHT@TCL.EDU
129	Texas A&M Univ. - Coll. Station	x	x		x	x			Jay Porter	PORTER@ENTC.TAMU.EDU	
130	Texas A&M Univ. - Corpus Christi								Ruby Mehrubeoglu	RUBY.MEHRUBEOGLU@TAMUCC.EDU	
131	Texas Southern Univ.				x	x			David Olowokere	OLOWOKEREDO@TSU.EDU	
132	Texas Tech Univ.				x	x			Larry B. Masten		LARRY.MASTEN@COE.TTU.EDU
133	Tri-County Technical Coll., SC								Ron Talley		RTALLEY@TCTC.EDU
134	Union County Coll., NJ			x	x	x			Nicholas Gilbert	GILBERT@UCC.EDU	
135	Univ. of Akron								John Edgerton		JEDGERTON@UAKRON.EDU
136	Univ. of Arkansas-Little Rock				x	x			Swami Midturi		SXMITDURI@UALR.EDU
137	Univ. of Central Missouri								Gerald Kangas	GKANGAS@UCMO.EDU	
138	Univ. of Cincinnati								Max Rabiee		RABIEEM@UCMAIL.UC.EDU
139	Univ. of Dayton	x	x	x	x	x			Scott Segalewitz	SEGALEWITZ@DAYTON.EDU	
140	U. of Hartford, Coll. of ET&A	x	x	x	x	x			Hisham Alnajjar	ALNAJJAR@HARTFORD.EDU	
141	Univ. of Houston				x	x			Enrique Barbieri	EBARBIERI@CENTRAL.UH.EDU	
142	Univ. of Maine		x	x		x			Spider Williams	SPIDER@EECE.MAINE.EDU	
143	Univ. of Memphis				x	x			Deborah Hochstein		D-HOCHSTEIN@MEMPHIS.EDU
144	Univ. of Northern Iowa								Recayi Pecen		PECEN@UNI.EDU
145	Univ. of North Texas								Nourredine Boubekri	BOUBEKRI@UNT.EDU	
146	Univ. of Pittsburgh - Johnstown		x	x	x	x			Greg Dick	GMD@PITT.EDU	
147	Univ. of Southern Mississippi				x	x			Randy Buchanan	RANDY.BUCHANAN@USM.EDU	
148	Univ. of Toledo								Dan Solarek		DSOLAREK@ENG.UTOLEDO.EDU
149	Univ. of West Florida				x	x			Karen Rasmussen		KRASMUSS@UWF.EDU
150	Vaughn Coll. of A&T, NY		x	x	x	x			Kalpana Jain	KALPANA.JAIN@VAUGHN.EDU	
151	Vermont Technical Coll.				x	x			Michael Marceau	MMARCEAU@VTC.EDU	
152	Virginia State Univ.								Dr. Keith Williamson	KWILLIAMSON@VSU.EDU	
153	Wayne State Univ.								Chih-Ping Yeh	YEH@ENG.WAYNE.EDU	
154	Weber State Univ.	x	x	x	x	x			William G. Clapp	WCLAPP@WEBER.EDU	
155	Wentworth Inst. of Technology, MA					x			Sandeep Dilwali	DILWALIS@WIT.EDU	
156	Westchester Comm. Coll., NY					x			Raymond Mignogna		RAYMOND.MIGNOGNA@SUNYWCC.EDU
157	Western Carolina Univ.	x	x	x					Ken Burbank	KBURBANK@EMAIL.WCU.EDU	
158	Western Washington Univ.				x	x			Todd Morton		TODD.MORTON@CC.WWU.EDU
159	WVU Institute of Technology								Thomas Minnich		TMINNIC@WVUTECH.EDU
Totals =		28	53	82	91	84				76	83