

New York State Engineering Technology Association

Minutes of the Spring 2013 Meeting Held on April 18-19, 2013 at Fulton-Montgomery Community College

The conference opened with a breakfast buffet at the Raiders Cove at Fulton-Montgomery Community College. The following individuals attended:

<u>First Name</u>	<u>Last Name</u>	<u>Associated College</u>	<u>First Name</u>	<u>Last Name</u>	<u>Associated College</u>
Joy	Carlson	SUNY Alfred	Frank	Yunker	Fulton-Montgomery CC
Jim	Boardman	SUNY Alfred	Mark	Oliver	Monroe CC
Slade	Gellin	Buffalo State College	Michael	Loudis	Morrisville State College
Tony	Hotchkiss	Buffalo State College	Fred	Schoenfeld	Nassau Community College
John	Campbell	Cayuga CC	Marguerite	Newton	Niagara County CC
Christie	Waters	Cayuga CC	Mark	Voisinet	Niagara County CC
Al	Gerth	Corning CC	Edward	Davis	Queensborough CC
Jon	Balke	Corning CC	Mike	Metaxas	Queensborough CC
Susie	Balke	Corning CC	Jeanne	Christman	RIT
Alica	McNett	Corning CC	Dave	Kripinsky	RIT
Dan	Barbuto	Dutchess CC	Steven	Ciccarelli	RIT
James	Lydon	Erie CC	John	Stratton	RIT
Richard	Prestopnik	Fulton-Montgomery CC	Ti-Lin	Liu	RIT
Jeremy	Spraggs	Fulton-Montgomery CC	Jayne	Baran	SUNYIT
Rob	Salkin	Fulton-Montgomery CC	Atlas	Hsie	SUNYIT
John	Kohn	Fulton-Montgomery CC	Daniel	Jones	SUNYIT
Sue	Messak	Fulton-Montgomery CC	Mohamed	Rezk	SUNYIT
Diana	Putnam	Fulton-Montgomery CC	Jerome	Zornesky	TCI College
Martin	Waffle	Fulton-Montgomery CC	Stephen	Maybar	TCI College
Pete	Wassel	Fulton-Montgomery CC			

The following exhibitors and patrons participated and helped support the conference: **Allegheny Educational Systems, Cengage Learning, Empire Technical Training Systems, Goodheart-Willcox Publisher, HiTech Inc., National Instruments and Joe Zahra Associates.**

Dr. Dustin Swanger, Fulton-Montgomery CC's president welcomed everyone.

The plenary speaker was Dr. John Garver, Wold Professor of Geology at Union College. His presentation was "Adaptation to Change and Building Resilience in the Mohawk Watershed: Engineering Challenges in an Important Time of Change".

Following the plenary session, interest group sessions were presented as follows:

Mechanical/Energy/Manufacturing

- *"SUNY Initiative for Curricula Changes"* – John Campbell, Cayuga Community College
- *"Teaching Impact Stress and Deflection in Strength of Materials"* – Ti-Lin Liu, RIT
- *"The Influence Mechatronics has on Mechanical Engineering Technology"* – Kent Powell, Allegheny Education Systems

Electrical

- *"Using Software to Enhance Student Learning"* – Mike Metaxas, PE, Queensborough Community College
- *"Introduction to the Raspberry PI"* – Kyle Bonfey, Rich Prestopnik, and Rob Salkin, FMCC
- *"Introducing Concepts in Electronics and Computer Programming using Wearable Technology"* – Jeanne Christman, RIT

Computer Information Security

- *"Enhancing Computer and Information Technology via Computer Virtualization Technologies"* – Jim Boardman, SUNY Alfred
- *"Introduction to the Raspberry PI"* – Kyle Bonfey, Rich Prestopnik, and Rob Salkin, FMCC
- *"Introducing Concepts in Electronics and Computer Programming using Wearable Technology"* – Jeanne Christman, RIT

Architectural/Civil/Environmental/Construction

- *"SUNY Initiative for Curricula Changes"* – John Campbell, Cayuga Community College
- *"FMCC Campus Architecture"* – Joel Chapin, Professor, Fine Arts, FMCC
- *"A New Approach-Introducing Sustainability in Construction Methods"* – Edward Davis, Queensborough CC

Interest group meetings were held after the technical sessions.

The evening banquet was held Thursday night at the Johnstown Holiday Inn. The guest speaker was Christopher Borst, Associate Vice President for the G450C Technical Operations at the College of Nanoscale Science and Engineering in Albany.

The breakfast business meeting on Friday morning was also held at the Johnstown Holiday Inn. The business meeting was called to order at 8:45 am by President John Campbell. John thanked everyone at Fulton-Montgomery CC for hosting the conference.

The existing interest group chairs and at-large members were re-elected for a 2-year term:

Interest Group Chairs	At-Large Members
Steve Ciccarelli (Electrical)	Jon Balke, Corning CC
Slade Gellin (Mechanical)	Mark Voisinet, Niagara County CC
Marguerite Newton (Civil/Architectural/Construction)	Ed Tezak, Alfred State
Alicia McNett and Mike Stanko (Computer Information & Security)	Anthony Hotchkiss, Buffalo State
	Michael Loudis, SUNY Morrisville

John Longwell is stepping down as NYSETA Scholarship Committee as Chair. Jon Balke from Corning Community College volunteered to step in as the new Chair.

John Stratton noted the following schedule and asked everyone to consider hosting a future conference. The executive committee is willing to help.

Fall '13	Alfred State (Date to be Announced); NYSETA's 50 th ANNIVERSARY!!!!
Spring '14	Excelsior
Fall '14	Open

Minutes of the fall 2012 meeting were approved. Jayne Baran reminded everyone that updates to the listserv can be sent to her. Also, the listserv software (SYMPA) is being phased out and we will have to migrate to Google Groups in the near future. Updates to the mailing list can be sent to Fred Schoenfeld or Kathleen Gallagher. Jayne Baran also noted that the deadline for the fall 2013 newsletter submission will be the third week of September 2013.

Steve Ciccarelli (Electrical and Computer), Slade Gellin (Mechanical) and Marguerite Newton (Civil/Architecture) summarized the interest group sessions. See attached minutes for the electrical and mechanical interest group minutes.

The NYSETA Scholarship Committee reported on the scholarship results. The New York State Engineering Technology Association awarded six-\$500 scholarships. The students, who were nominated by faculty members, demonstrated talent and leadership in campus service, student activities and outstanding scholarship. The scholarship winners came from six different institutions.

Award Recipients

- Katelyn Lange, Alfred State
- Mary Cedillo, Fulton-Montgomery Community College
- Miguel Gonzales, Nassau Community College
- Jack Susman, RIT
- Kelli McArdell, SUNYIT
- Michael Lawrence, Queens Community College

Congratulations to these deserving students and thank you to their faculty nominators!!!

John Campbell reminded everyone to e-mail him nominations for the "Elliot Colchamiro Award". Also the history committee will give a presentation at the fall 2013 conference.

There was discussion about the TAACCCT grant (<http://www.dol.gov/opa/media/press/eta/ETA20121885.htm>) Many of the community colleges are participating, but not all the details are being communicated at the faculty level. Some of the grant includes curriculum development and standardization. The mechanical interest group issued a draft motion (see attached) that was unanimously passed. John Campbell will write a letter to the Department of Labor (DOL).

The meeting was adjourned at approximately 10:20 am for a tour to the Beech-Nut Plant in Amsterdam, NY

Respectfully submitted by Jayne Baran, Secretary of NYSETA
Approved by the Executive Board June 11th, 2013
Approved at the NYSETA business meeting October 25th, 2013

ATTACHMENT

Draft Motion (from Mechanical Interest Group)

Whereas the Trade Adjustment Assistance Community College and Career Training (TAACCT) grant involves the schools of many of the members of NYSETA; and

Whereas the first meeting of the Department of Labor (DOL) involved a relatively small number of engineering technology faculty; and

Whereas the function of curriculum development is faculty driven; and

Whereas NYSETA has many contacts with industry throughout the state; then:

Be it resolved that NYSETA should have a seat on the DOL board who should be a community college engineering technology professor from one of the institutions participating in the grant.

Should this motion pass, the Mechanical Interest Group puts forth this second motion:

Be it resolved that a member of the executive board communicate to the DOL that convictions of NYSETA as outlined in the first motion.

ATTACHMENT (Electrical Interest Group Minutes)

EIG Meeting 04/18/2013, - Steve Ciccarelli, EIG Chair

- 1) Attendance (listserv email list, errors fixed, new members added)
- 2) Thanked the conference organizing committee (Rich and crew - Fulton Montgomery folks) and the presenters.
- 3) Feedback
 - a. Plenary (Adaptation to Change and Building Resilience in the Mohawk Watershed: Engineering Challenges in an Important Time of Change, Dr. John Garver)
 - i. Good, excellent
 - ii. Really enjoy the local interest speakers
 - b. Session 1 ("Using Software to Enhance Student Learning" Professor Mike Metaxas, Queensboro Community College)
 - i. Good, lots of feedback
 - ii. Perhaps use his inexpensive projects for recruitment, light fires and interest
 - iii. Eng Tech is suffering from low enrollment
 1. Use for marketing? Also Jeanne's wearable tech
 2. Marketing video? Dutchess (Dan B) and comm students putting together video on eng tech *bring up to the membership as potential project for nyseta
 3. Pool content (stock footage from diff schools, edit and present as a final project)
 - c. Session 2 (Introduction to the Raspberry Pi, Bonfey, Prestopnik, Salkin)
 - i. Good comparison/contrast with the arduino
 - ii. Good, looks powerful, inexpensive, blend
 - iii. Comparison in Nuts n Volts over the last few issues
 - d. Session 3 ("Introducing Concepts in Electronics and Programming Using Wearable Technology." Professor Jeanne W. Christman, Computer Engineering Technology, RIT)
 - i. Good talk
 - ii. EL wire discussion (coolneon.com), conductive thread, lilypad (ladyeta.com?), sparkfun.com
 - iii. Good for intro to majors type course?
 - iv. Would like an update in a year or so at ETA
 - v. Perhaps a wearable fashion tech show?
 - e. Computer Information Systems Interest Group (Alicia McNett Corning CC) (session 1) – Enhancing Computer and Information Technology via Computer Virtualization Technologies" Professor James Boardman, Alfred State SUNY College of Technology
 - i. VMWARE: Interesting, lots of questions, perhaps another session in the fall?
 - ii. Great impact on FMCC

- iii. Jim would be willing to come back
- f. Breakfast
 - i. More coffee (ran out)
 - ii. Food was good
- g. Lunch
 - i. Good
- h. Vendors
 - i. Good showing and interest, good setup
 - ii. Allegany educational system paid sponsorship – Special thanks
- 4) Thoughts for the fall conference (Alfred State College) - Computer
 - i. More VMWARE
 - ii. ALICE (Teaching tool, Carnegie Mellon), conf in Orlando (Alice to Java)
 - iii. Pony Express/Directed Study (JIM) – Using wireless router and 86 board? (Alfred)
 - iv. Cybersecjurity/tools, etc, terrorism, etc
- 5) Thoughts for the fall conference (Alfred State College) - Electrical
 - a. Small ucontrollers and uprocessors projects, roundtable show and tell for projects (10 mins each or something) or senior projects/design and bring some students?
 - i. Group projects grading, evaluation for each, rubrics, etc
 - b. More things that overlap electrical and computer
 - c. PLC/PLC lab benches
 - d. Software defined radio – overview (Harris perhaps?)
- 6) IG elections
 - a. EIG – S.Ciccarelli re-elected (quickest election ever...)
- 7) Open Discussion
 - a. Bring up SUNY curricular issues (SUNY initiative curricular changes, 64 credits, seamless transfer initiative)
 - i. Letter to SUNY from NYSETA (position statement, issues, detriment,etc?)
 - b. PDHs (prof development hours for engineers)
 - i. PDH credits for Alfred talks (Alfred to contact Dave or NYS Ed dept, since they are ABET accredited)
 - c. CIS Group – Ideas to expand the attendance and get out the word?

ATTACHMENT (Mechanical Interest Group Minutes)

**NEW YORK STATE ENGINEERING TECHNOLOGY ASSOCIATION
Mechanical Interest Group
Minutes, Meeting of 18 April 2013**

S. Gellin called meeting to order and passed around etamech list among the members. S. Gellin then yielded the chair position to J. Stratton to run the election for Mechanical Interest Group chair. S. Gellin was the only nominee and was elected. J. Stratton volunteered that S. Gellin will only serve if all etamechers helped find speakers for subsequent conferences. After the attendees agreed, S. Gellin took back the chair.

As is the custom, the conference and the presentations were discussed.

The opinion of the group was that the conference was well run and met levels of expectation in hospitality issues.

The plenary speaker Dr. John Garver gave a good presentation with excellent data, graphics and photos.

The first mechanical interest group session was by Bruce Hamm of MACNY, assisted by J. Campbell, C. Waters and Carla DeStew of Cayuga Community College. The topic was a SUNY initiative to introduce new and consistent curricula developed with industry and expert support as part of a grant with the acronym TAACCCT. The member schools will be developing programs of vital need in the state. Under the rules of the grant, those schools that wish to develop essentially the same program will have the same curriculum so that it will be portable throughout the state and appropriate industry.

There was much discussion concerning this presentation. First, it was noted that the meetings of the DOL (the governing body of the grant) have consisted of primarily school administrators with smaller direct input from faculty and industry. It was agreed that this was not in the best interests of the long-term goals of the grant. There also appeared to be a lack of communication with the faculty even with those schools that are participating, and NYSETA members of schools that declined participation were never consulted. There also seemed to be a lack of current information garnered by the DOL. A motion to address these short-comings to be put before this body has been handed out, and will be introduced under new business.

The next presentation was by Dr. Ti-Lin Liu of RIT. It was a fine presentation, and, when in the form of a scholarly paper, will be posted to the NYSETA website.

The final presentation was by Kent Powell of Amatrol, Inc. of the influence of mechatronics on MET. He demonstrated educational equipment his company has developed, which certainly demonstrated the multi-faceted aspects of mechatronics. It was noted that employers want their MET people to have more electrical/electronic training and that MET curriculum will need to respond accordingly.

Respectfully submitted, S. Gellin