

**National Convergence Technology Center
CCN Quarterly Meeting
Friday, December 08, 2017**

Attendees:

Nisheeth Agrawal, Calhoun	Susan Svane, North Central Texas
Aimee Belanger-Haas, Clark State	William Saichek Orange County College
Susan Randall, Cleveland	Bill Sanderson, Renton
Douglas Spindler, College of Marin	Mike Eilerman, Rhodes State
Mike Harsh, Collin	Douglas Miller, Salt Lake CC
Belicia Miraval Albornoz, El Centro	Pam Betts, San Jacinto
Jimmie Joseph, Ferris	Jim Simpson, Scottsdale
Ernest Friend, Florida State College	Adam Rocke, Seminole State
Ronda Black, Gallatin	Ben Taylor, Seminole State
Stephanie Gray, Gallatin	Kyle Jones, Sinclair
Dwight Watt, Georgia NW	Patrick Logue, South Plains
Luann Keizer, GRCC	Mike Vickers, Tallahassee CC
Daniel Tuuri, Kirkwood	Charles DeSassure, Tarrant
Samantha Hench, Kirkwood	David Keathly, UNT
Mike Potter, Lake Washington	Greg Burgess, Volunteer State
Andrew Fischer, Lake Washington	CyndiKaye Medved, Waukesha
Brian Nelson, Lansing CC	Amelia Maretka, Wharton Co
Rajiv Malkan, Lone Star	Nancy Cerritos, WITC
Rebekah Sanchez, North Central Texas	Greg Brodt, WIT

Next CCN Quarterly Meeting: Winter 2018 TBD

AGENDA & NOTES/ACTIONS FROM 12/8/17 MEETING

Recording link:

<https://nationalctc.webex.com/nationalctc/onstage/playback.php?RCID=6378cfb0f86ad47380a8162005a19900>

AGENDA



CCN meeting 12 8
17 presentation.ppt

*** Please reference PowerPoint slides for additional information covered**

Welcome/Role Call

Convergence Technology Center Reminders

CAE2Y (Please see PowerPoint for links) webinar – November 10, 2017

- Webinar recording link is available for those that weren't able to attend.
- Kyle Jones of Sinclair gave a thorough overview of the process.
- If your school is interested, please listen to the recording.

CCN Survey - <https://www.surveymonkey.com/r/CCNfall17>

- Trying to assemble an "expert list"
- Subject or topic at which each CCN school is most skillful
- List would be used as a directory that schools can cross-reference
- Easier to network with other schools

ATE Grants for 2018

- CTC can help, but needs to be involved in advance
- September is too late for CTC assistance
- Please see PowerPoint for deadline schedule

NetLab support for CCN "Level 1"

- CTC can provide free NetLabs for a short time (1 or 2 semesters)
- Purpose is to see how valuable it is for students
- Encourage school administration to purchase NetLab subscription for your school
- Let Mark know if you're interested for Spring 2018

NetLab User Group recordings - <http://cccnetlabsug.org/nlug-minutes/>

- Four free recorded webinars
- Very detailed lectures for using Netlab

Cloud classes?

- Let us know if you're teaching a Cloud+ class
- Let us know if you're teaching a capstone class featuring cloud
- There's a growing interest in teaching these courses

CCN Program Sharing

Cleveland Community College – Raspberry Pi and Summer Camps (Susan Randall)

- Used Raspberry Pi for a middle school camp
- Allowed students to program in Scratch, which they loved
- Will use the Pi during a camp for juniors and seniors in high school
 - Programming
 - Introduce IoT
 - Data Center Information
- Using the Pi with Robotics team
 - To assist with programming concepts
- In November, hosted a day session called "Make It Work"
 - For all CTE Students in the local high schools of the surrounding counties

- Met the industries that are represented in the counties and also the academies at the community college
- One of the table setups was “Mission Critical”
 - Introduce the Pis to them
 - Interactive demonstration – Had some things coded
 - Opportunity to talk to them for 3 or 4 minutes each

Kyle Jones – We’re doing the same thing, but we’re using them to build arcade cabinets, where they’re soldering together and learning Python.

Brian Nelson – We’re doing Raspberry Pis in our IoT classes

Doug Spindler – Can I ask why Raspberry Pi and not Arduino?

Susan Randall – We actually use both.

Doug Spindler –How much do you focus on each?

Susan Randall – It’s about equal, equal because the other instructor is on the OT side and he focuses on the Arduino and I do the Pis. We chose the Pis because they were affordable, and I was able to acquire enough for a small group of about 25 students at a time.

Pam Betts – The Raspberry Pi has a full operating system with a many computer, but the Arduino is more for building systems like controllers. Arduino is a more hands-on type system. We actually use both in our computer science classes to do various embedded systems and programming.

Bill Sanders (on chat) – Started using Pi as a recruiting hands-on as an activity in orientation settings to recruit women in technology.

Salt Lake Community College - Competency Based Programs (Doug Miller)

- Doug has 20 Years in the military and 10 years in private sector before becoming a professor
- Discouraged about how a transcript only has the grade, but does not say what the student learned
- Response – List competencies of what the student has done
- Chart of CBE Myths (Please see attached PowerPoint)
 - 1st Myth – It’s just an online course.
 - No - Students have to come to the campus weekly if not more for exams and labs that they have to attend on campus
 - If everything goes online, SLCC loses a lot of students in the process
 - Staff get to physically see and talk to the students
 - 2nd Myth – Faculty aren’t important.
 - No - Faculty actually deal with students on a more personal basis.
 - Students do not learn at the same pace so faculty are able to help them where they are
 - 3rd Myth – Quality of student learning is less
 - No - We can’t hold back information in CBE.
 - We have to post immediately for students.
 - Those that are faster see the information immediately.
 - 4th Myth – CBE gives credit for life experience.
 - No - Prove It – Just because you have 20 years in computers doesn’t mean you know exactly what’s happening in that course
- Faculty Role in CBE
 - Everything shifts, students need to be monitored closely
- Content has be different and more in-depth, students learn at different speeds
- Personalized approach, faculty is talking to students one on one

- Question from the chat box: “How do you prevent students from cheating?” Doug’s reply: Tests are administered in the classroom. We have done some of the video proctoring also and works okay. Like I said it is not just an online course.

Tarrant County College – Proposed IT Certificate Effective Fall 2018 (Charles DeSassure)

Two Tarrant County College approved certificates – Launch in Fall 2018

- Help Desk Support Specialist Certificate
 - First line of technical support
 - Very strong partnership support
 - DFW Airport
 - Looking for help desk support specialist
 - Many respected IT organizations
 - Help Desk Institute
- Mission Critical Operations Data Center Certificate
 - Will be housed at Tarrant’s south campus
 - Has a degree in this field as well
 - Related to Cloud technology
 - To provide support for data centers that exist and those that are coming to the DFW area

Waukesha County Technical College - Flexible Blended Options/Formats for Network Security Degree (CyndiKaye MedVed)

Inside of WCTC Team of Information Technology, there is a degree program:

- Network Security Specialist – CAE2Y
 - Three delivery format
 - Face-to-face – In classroom w/instructor
 - Online – Blackboard collaborate/cameras and speakers inside the classroom to join in conversation
 - Review a recorded class –
- Released Two Nights a Week – Year 1 and Year 2 (Please see slide for details)
 - Year 1
 - 4 classes – 2 Monday/2 Wednesday classes
 - Cisco 1 is for 10 weeks
 - IT Security is 6 weeks
 - 2 on Wednesday are 8 weeks a piece
 - Spring will take 4 more classes
 - May term is between spring and summer
 - Year 2
 - Summer
 - Fall
 - January term for 1 class
 - Spring term
 - Fall term
 - IT internship
 - Launched in Fall 2017
 - 23 people are using this format
 - In the process of testing remote connectivity

- Expecting to be running in January
- Starting another Cohort next fall

Charles DeSassure – Possible to send a copy of your curriculum for the scripting class.

CyndiKaye Medved– I sure can

Mark – I love it when someone from Texas asks someone from Wisconsin about their curriculum.

Calhoun Community College - Cybersecurity Initiatives (Nisheeth Agrawal)

- Organized a Rocket Secure Conference on campus in October to celebrate Cybersecurity month
 - Open to everyone from novice to experts
 - Speakers ranged from local detective of police force to reverse engineering specialist
 - Six hour Conference
 - Computers display for attendees could look inside
 - 120 people in attendance – very successful
 - Charged \$15
 - Gifts – tote bags and t-shirts
- Calhoun participated in C5 Photography Pilot this fall
- Intro to Information Insurance course w/photography
- Helped in mapping CAE2Y
- Assisted in learning labs
- Have to subscribe to Codio for the curriculum at least for now

Collin College - Program Overview (Mike Harsh)

- Past 20 years have had three separate degree plans (Cisco Systems Networking Specialization/Computer Networking Technology/Convergence Technology)
 - This past summer the three have been combined into one AAS degree in Computer Networking with three different tracks
 - Some of the changes made
 - Removed the IT essentials added Network+
 - Prerequisites required for Cisco classes
 - Network+ is a prerequisite
 - Major changes to Wireless class
 - Name changed from Wireless Telephony Systems (EECT 2337) to Fundamentals of Wireless LANs (ITNW 1351)
 - Huge interest in this class, it usually fills up within 2 to 3 days
 - Created an advisory group of 8 industry experts (Think Tank)
 - Strong interest in a Wireless degree
 - Had a meeting this past summer with Aruba
 - Aruba Network has a Mobility Academy
 - Aruba Network has an advance certification so Collin will teach the following two wireless classes
 - CWT – Certified Wireless Technician Degree
 - CWNA
 - Will go to Cisco and Aruba for the other classes
 - Consider having IoT tracks/ex. Industrial automation
 - Collin will be reaching out to others schools for suggestions

Mark – Those were some big changes. How much of that was driven by your business group (BILT)?

Mike Harsh– All of it. The business group has wanted us to get into wireless for quite some time. We're going to add scripting class, which would be a Python, and change the Lenox class by adding scripting, all of these changes have come from our advisory board.

- Question from the chat box: "Of the three track options, which seems to be the most popular with students?" Mike's reply: It's too early to tell.

Renton Technical College - TestOut Labs Sims CMS and AWS Academic Academy (Bill Sanderson)

Test Out works well with RTC students.

- Compile some statistics over the last couple of years (Please see PowerPoint for statistics)
- How did we get here?
 - Went through a slow process for four years
 - One instructor performed a beta test for a year using the TestOut management system
 - Within two years RTC slowly increased how much content could be tested into the curriculum
 - Three LabSims implemented in four classes
- Additional Reasons to use LabSims
 - LabSims that align with CompTIA are good for student with no background in the field
 - Most students pass the first time
- Amazon Web Services
 - Started with the Amazon Educate program
 - Open consortium open 6 or 7 years ago
 - RTC was referred into the Academy after about a year of participation
 - Pick and choose what content from AWS to incorporate into your curriculum
 - Reference name: Amir Moshar
 - He introduced RTC to the AWS Academy Beta Program that we participated in 2016
 - Bill Sanderson was sent to Seattle for training, which included two courses
 - AWS Academy beta – Fall 2016
 - Delivered AWS Academy beta to 22 students
 - 90% completed
 - 20% earned certificate of completion
 - Two students continued to obtain the certificate
 - AWS Academy Requirements
 - 66 hours minimum of instructor lead training
 - 6 weeks minimum
 - Have two instructors willing to become certified (flexibility) in AWS Solutions Architect Associates
 - AWS Academy Benefits
 - Curriculum free
 - Free instructor training
 - Students or Instructor receive free access to AWS Services during the course and Amazon is willing to extend the services beyond the quarter or semester.
 - Earn certificates of completion
 - Amazon will do webinars in your classroom
 - Amazon will provide onsite visit
 - AWS Academy Concerns
 - Curriculum changes every 6 months

- Course does not prepare student for obtaining the certification
- Course only covers 50 to 60 percent

Doug Spindler – How did you start the program? This is something I would be interested in introducing at the College of Marin. Maybe we could have an AWS webinar.

Mark – We could do that.

Kyle Jones – I second that. I would love to hear something on that.

Doug Spindler – Anybody doing anything with Azure? Anybody interested in Azure?

William Sanderson – I went through a precursory course with Windows Azure, probably almost a year ago, and I did not adopt it because it just wasn't finalized to where you could actually deliver in a classroom format. It was based on a couple of books that had been published. It was oriented around infrastructure, and then segued into the cloud technologies. At that time, Azure was evolving in terms of what you could actually do. Depending on what level you're providing, students become lost very quickly. However, I will say that it has evolved from what I've seen so far. It looks very similar to what Amazon is doing. I'm actually going to go back and revisit that. We have a bachelor's degree coming online next year that we want cloud computing not just centered to Amazon. We want Microsoft and any others that might be out there too. Hybrid cloud is not going to go away and I think the public cloud is just going to become bigger.

Doug Spindler – I'm a Microsoft MVP, and if you're interested in Azure or producing a class, I would be willing to participate. I have connections at Microsoft so we could make this happen. I've worked with the project managers at Microsoft and Azure is changing daily. You cannot use a book and the material you record is obsolete by the end of the week.

William Sanderson – That's exactly where I'm coming from. It changes too quickly right now. Again, I'm going to revisit, but I would love to connect with you on that.

Grand Rapids Community College – Grants (Luann Keizer)

- Spent the last year getting involved in grant activity
- Recently joined with the NSF and the Cyber Watch West Center Academics Excellence Program and are now a mentee
 - Lots of work to be done in this area to strengthen our cybersecurity curriculum
 - We're now moving toward certification
- Involved in becoming part of the Cyber Course Scholarship for Service Program along with our major transfer program, Davenport's University's bachelor's degree in cybersecurity
- Recently completed interview with NSF for both institutions, Davenport and Grand Rapids and we're waiting their decision
- Use the grant activity to strengthen our curriculum
 - Taking advantage of Winter WC – applying what's taught and modifying the content of the school's ethical hacking class
- Part of the CAE2Y process – considering a certificate called Fundamentals of Information Security
- U.S. Department of Labor grant
 - Helping to build IT apprenticeship through the American Apprenticeship Initiative (AAI)
 - Use BILT group to influence to start IT apprenticeship
 - Recently had an approval from primary academic development partner, Michigan Works.
 - They have approved the standards for an IT apprenticeship in Computer Support and Network Plus
 - We pay \$2700 in tuition per apprentice

- We're coming up on the third year of a five year grant and Grand Rapids has built 22 IT apprentices

Lansing Community College - Career and Employment Services Staff Embed Three Personnel (Brian Nelson)

One of the Career and Employment Services personnel, Glen Wilson, is 80% dedicated to IT – provides a number of benefits

- Single point of contact
- Talks with employers on a regular basis about openings
- Places a link on department website that leads students to 40 area employers
- Sends out a weekly email to IT students with the latest job opportunities in the area
- Two “speed network” events per year
- Career fair every spring, over 100 local IT employers
- Assist with making students employable
 - Soft skills workshops
 - Resume assistance
 - Mock Interviews

Kirkwood Community College - Customer Service Professional Course (Samantha Hench)

- Local Industries indicated that the number one item missing when hiring students was soft skills
- Team up with Continuing Education
 - Articulated a class that both Continuing Education and Credit students take
 - Replaced 9 credit hours of course work, which included:
 - desktop support class
 - workplace communication
 - keyboarding class
 - resume building
 - Customer Services Professional Certificate – the nine credit hours are now combined into a certificate, and students are learning:
 - Soft skills
 - Professionalism
 - Personality types among co-workers
 - Call center overview
 - Part of the course is being treated as a call center
 - Time Management – Challenge and change
 - Business writing – Resumes
 - Interviewing
 - Weekly industry partner visits
 - Computer training
- Noncredit students have barriers
 - Need transportation
 - Day-care
 - Receive grant funding from an internal K-paste program
 - Four week bridge program before the credit students arrive
- Once credit students arrive, the two cohorts of students are able to work together
- Certificate is treated like a part time job
 - Total 13 weeks

- 5 days a week,
- 4 ½ hour each day
- Only allowed to miss 14 hours
- No call/No show
- Continuing Education students are able to articulate at the end of the nine credit hour class and come and receive credits
- Past year and a half, have had 18 students of the 19 credit students earned the certificate
- Four of the 28 Continuing Education students have decided to pursue an AA degree
- Receiving positive comments from industry and upper level credit courses as well

Adjourn