

## College of Technology – Site Coordinators Meeting

Date: Monday, October 23, 2023 Time: 2:00 PM

Location: Virtual

### ATTENDEES

#### CT State Colleges & Universities

Karen Wosczyzna-Birch, Executive Director, College of Technology – National Center for Next Generation Manufacturing  
Wendy Robicheau, Assistant Director – National Center for Next Generation Manufacturing  
Sue Spencer, Program Coordinator, CT State - Gateway  
Sharon Lutkus, Interim Director, Advanced Manufacturing Technology Center, CT State - Naugatuck Valley  
Jakob Spjut, Professor, CT State - Quinebaug Valley  
Sharon Gusky, Professor, CT State - Northwestern  
Stella Litwinowicz, Professor, CT State - Housatonic  
Lin Lin, Program Coordinator, Middlesex CC  
Mehrddad Faezi, Professor, CT State - Manchester  
Mary Bidwell, Dean of Advanced Manufacturing, CT State - Asnuntuck & Tunxis  
Adam Scobie, Director, Advanced Manufacturing Technology Center, CT State – Housatonic  
Deirdre D'Amore, Guided Pathways Advisor, CT State - Naugatuck Valley  
Felisha Guirand-Fleurimond, Recruitment/Retention Coordinator, CT State - Housatonic  
Danny DaXian, Professor/Program Coordinator of Engineering Technology, CT State – Tunxis  
Mathew Spinelli, Director, Advanced Manufacturing Technology Center, CT State - Manchester  
H. Justin Moore, Dean, School of Engineering & Technology, CT State  
Jim Doran, Interim Engineering Program Coordinator, CT State - Three Rivers  
Keith Carter, Director, Advanced Manufacturing Technology Center, CT State - Middlesex  
Kristen Dagan, Department Chair, Engineering & Technology, CT State – Naugatuck Valley  
Matthew Enjalran, Professor & Chair, Physics, Southern CT State University  
Ravindra Thamma, Associate Dean and Professor, Central CT State University  
Rich DuPont, Director of Community & Campus Relations, Advanced Manufacturing Center, CT State - Housatonic  
Lesley Mara, AVP, Systemwide Initiatives and Sponsored Programs, CT State Colleges & Universities  
Levy Brown, Provost and Vice President of Academic Affairs, Student Affairs, and Workforce Innovations, CT State

#### Other College & Universities

Stephanie Gillespie, Associate Dean, Tagliatela College of Engineering, University of New Haven  
Laurie Granstrand, Manager of Graduate Programs, Undergraduate Transfer Evaluations, College of Engineering, Technology, and Architecture, University of Hartford  
Daniel Burkey, Associate Dean for Undergraduate Education and Diversity, School of Engineering, University of Connecticut

#### Other

Eileen Candels, Director of Partnerships, Connecticut Center for Advanced Technology, Inc.

### MINUTES

- **Attendee Introductions – All Attendees**
- **Welcome Remarks - Dr. Karen Wosczyzna-Birch, Executive Director, College of Technology & Executive Director & PI, National Center for Next Generation Manufacturing**
  - Karen thanked everyone for their flexibility since the College of Technology Meetings had to be moved around this semester and introduced Dr. Levy Brown.
- **Remarks from Dr. Levy Brown, Provost and Vice President of Academic Affairs, Student Affairs, and Workforce Innovations, CT State**
  - Dr. Brown commended attendees for the work they are doing across the CT State campuses and within the system. He is glad to be a part of CT State and a new and emerging role. He now has the opportunity, with other colleagues, to help shape student affairs, and also to help shape our workforce innovation. He has served in higher education for a little over a few decades and is always focused on finding a way to center our work on our students and our faculty and staff that make a difference. He is a supporter of collaboration and shared governance. He is also excited to learn more about the

College of Technology and the work that is being related to pathways for our students. There was an opportunity for questions, but none were asked. Dr. Brown is planning on more campus visits including private university partners.

• **Connecticut Center for Advanced Technology (CCAT) Updates - Eileen Candels, Director of Partnerships, Connecticut Center for Advanced Technology, Inc.**

- CCAT works to help advance technology and technology adoption by employers in the manufacturing ecosystem as well as to work to help inspire next gen workforce and bring them into the world of manufacturing. CCAT works at the intersection of both federal and state funds and grants as the liaison to make educators aware of what CCAT has going on and to connect with educators to both connect your students with opportunities and for helping with access to employers. CCAT has continued to be tasked to promote Manufacturing Month, which runs through the end of October. They also continue to push out a monthly educator E-blast to any educator who is on their list. CCAT is also a subcontractor for the manufacturing road shows this past year. CCAT was asked by the Manufacturing Innovation Fund to spearhead an internship program that mainly focuses on 4-year college students but it does not exclude the community college or associates degree student from participating. Employers would just not be receiving a potential partial wage subsidy. The program went from a pilot in 2022 of 35 interns to 118 interns this past summer. The goal is 200 interns this next summer and 300 interns the next summer. There will be hosting a statewide career fair in very early April, which would include free buses to bring students from a variety of schools together to the event. Last year, 90 employers participated and many of them hired summertime talent or summer internships from that day. CCAT offered 6 different tours around the State of Connecticut last summer, plus a orientation event at Trumpf in Farmington, with a professional development speaker. And at the end of the summer, there was a social down in New Haven at Bear's Barbecue. The intent is to help create community along with connections and raising awareness of overall opportunity that there is work. Finally, if a student is working on some form of a project and needs a research and development consult from an engineer or you are looking for proofing something on equipment, reach out to CCAT to connect you with engineers that could potentially give 5 hours to a student's or educator's project.

• **CT State Community College – School of Engineering & Technology Updates and Curriculum Proposals– H. Justin Moore, Dean, School of Engineering & Technology, CT State Community College**

- CT State School of Engineering & Technology Updates
  - Following up on Eileen's updates, Perkins funding can be used to bring CCAT to your campus for technology demonstrations.
  - Dan Fuller, Chair of the Automotive Technician Program at Gateway, has won his way into the final 4 of the U. S. National Championships of Auto Technicians. He is going to Tampa, Florida this week to compete for the national championship. The event's going to air on CBS sports in December. A crew from CBS filmed Dan and his students at Gateway last week.
  - The state application for Perkins funding is still not open yet as they are making changes to the website, but we are still getting our application materials together. There have been weekly meetings with the campus liaisons for Perkins. Everyone should have received spreadsheets for making their requests for Perkins funding, if not, reach out to Justin. Sharon Guskys of CT State Northwestern asked if the COT could be listed as the advisory committee for the COT programs at her campus since they do not have a local advisory committee. Justin Moore responded no at first and that you can apply without an advisory committee but would have to set one up for spring as long as it meets twice in the spring. Justin said he would talk to the state about using COT as an advisory committee on the application for this year then setting up local advisory committees next year. Budgets are still being determined so the best way to ballpark a budget is by using the average of the last three years of funding you received. Include priority level of each item in the priority column.
  - November 1<sup>st</sup> is the Aerospace Components Manufacturers (ACM) Tradeshow at the CT Convention Center. CT State will have a table there and so will CT State Manchester. Perkins funds can be used to bus students to this. November 16<sup>th</sup> CT State Asnuntuck is hosting members of ACM to present on robotics and mechatronics technician programs. October 27<sup>th</sup> CT State Housatonic is patterning with their junior achievement group to bring awareness of career opportunities in manufacturing. November 8<sup>th</sup> is CT State Housatonic's STEAMfest, which will focus on technology and innovation. October 26<sup>th</sup> CT State Naugatuck Valley is hosting their manufacturing alumni event to raise scholarship money. On November 17<sup>th</sup> is CT State Naugatuck Valley's STEM, Advanced Manufacturing, and Technology Expo sponsored by the Waterbury Regional Chamber for middle school and high school students to learn about manufacturing opportunities. October 27<sup>th</sup> is CT State Quinebaug Valley's 8<sup>th</sup> Annual Manufacture Your Future Event for about 200 high school students to participate in 10 different workshops.
  - CT State Manchester visited Barnes Aerospace in Windsor for a tour and a lunch to talk about career opportunities.
- Replication of Technology Studies: Data Science Certificate at CT State – Housatonic
  - Data Science falls under the School of Math and Science at CT State, which is led by Dean David DiMatteo. CT State Housatonic wants to replicate the certificate at their campus. Justin Moore offered the opportunity for questions or comments. Mathew Spinelli of CT State Manchester notes that when he was at Tunxis Community College, they

replicated it and it is an excellent program. Justin added there are a lot of positions out there for students in the data science realm.

- New Program - Technology Studies: Plastic Molding Technology Option - CT State – Middlesex
  - Keith Carter, Director of Advanced Manufacturing Technology Center at CT State – Middlesex, noted that the proposal was designed with industry partners. They decided on an A.S. degree that introduces students to techniques and modern components in plastics molding technology and has embedded OSHA certifications and Lean certification. They will be adding four courses – Introduction to Injection Molding, Injection Molding Design, Injection Plastic Materials, and Injections Molding Machine Setters. This is program where students can go right from the A.S. degree to employment. The program is 61-61 credits. Rich DuPont of CT State – Housatonic noted that there was a plastics program that started at Three Rivers Community College in partnership with industry advisors and they were looking for a certificate. Keith responded that they had that conversation and decided on the A.S. degree and will develop certificates off of that. Karen Wosczyzna-Birch noted that most of the time for COT programs, the A.S. degree option and certificate will be brought forward for approval at the same time.
  - Adam Scobie of CT State Housatonic noted that students would take MFG 1467 and MFG 1477, which are very similar in nature. He suggested running MFG 1477 in the second semester and then running MFG 2477 in the third semester.
  - Jakob Spjut of CT State – Quinebaug Valley suggested instead of injection molding technology to use a more general name regarding plastics for flexibility so you do not have to be so specific with courses. Also, it is hard to tell the difference between the injection molding technology course and the injection molding design lab in terms of content covered. Finally, there used to be a plastics option under the Technology Studies A.S. degree and a certificate at Quinebaug Valley Community College, but the courses could never be run and it was hard to get enrollment so it was not brought forward to CT State. That opens the way for this new program and hopefully ways to get enrollments.
  - Mary Bidwell of CT State – Asnuntuck noted that with the A.S. degree, students will most likely take the gen ed credits and CCS 101 in the first year. Also, with the current approval process, how long would it take to get the certificate approved. Justin Moore noted that if it was submitted in the next month it could be on the books for next fall. If it is submitted after that it would not be able to be approved for another year and suggested Keith work on submitting a certificate now. Mary also agreed with Adam Scobie's concern over the similar conventional machining courses with Mathew Spinelli of CT State – Manchester raising the same concern as well. Mathew asked if students could take either course rather than both. Keith said he would review that with partners.
  - Justin Moore asked if this program needs a vote from for approval from COT and if that should be done today. Sharon Gusky of CT State – Northwestern asked if the revision should be done first and a certificate be proposed at the same time. Jakob Spjut of CT State – Quinebaug Valley noted that there is currently no requirement for programs to be approved by the COT to move forward but also this is not a proposal for a Technology Studies program and does not conform to the aligned curriculum and transfer pathways. He suggested putting it through the Statewide Discipline Committee (SDC) with the revisions. Sharon Gusky encouraged the program be revised as Technology Studies program so it can transfer to Central CT State University and provide flexibility for students. Justin Moore noted that revisions will be made and the program will be proposed to the SDC with the feedback provided today. Sharon Gusky noted that there was no need to vote today.
- New Course - Foundations in Manufacturing Math
  - This would serve as a pre-req or co-req for Manufacturing Math. Mary Bidwell of CT State Asnuntuck noted the course is not mandated but would be available for programs that need the course. Using whatever test to test out would still be fine. It was a course to provide an option and flexibility. This follows along the lines of what English did for ACME. Sue Spencer from CT State Gateway asked if that English course has an ENG designation and thinks a math course should have a MATH designation. Mary noted a test out is used and this course is only for the manufacturing students who cannot pass the test so they can still be in the program while keeping it a credit course. Justin added that students in the Second Chance Pell program take this course and it did not go through alignment and this would bring it back over. Students would also be able to use financial aid with it as a credit course. Sue noted that Pell would work best in units of 3 and this is a 2-credit course. Mary responded that most students taking it would be in a cohort where there is also a 1-credit course in the curriculum. Mehrdad Faezi of CT State Manchester noted that he is concerned with this being a pre- or co-req to the existing manufacturing math course. Justin responded that it would be up to the instructor's discretion and would be listed "with permission of instructor" too. Mathew Spinelli of CT State Manchester asked if there is a concrete metric to measure if students need this course. Mary responded that when MATH 085 was used, there was no placement there. They were looking at high school scores and other testing to determine if students needed the course. Other campuses can share what they do for students who are not prepared for the math course. Jakob Spjut of CT State Quinebaug Valley asked if they will be a proposal for shared governance to change the math pre-reqs. Justin responded yes, there will be a course modification and a new course proposal. Proposals need to be in this Friday to make the next SDCC meeting. Mary will submit the paperwork.

- **Articulation Agreement – Engineering Science A.S Degree to University of Bridgeport Electrical Engineering and Mechanical Engineering B.S. Degrees**

Justin Moore presented an articulation agreement for the Engineering Science A.S. degree at CT State to transfer to the Electrical Engineering and Mechanical Engineering B.S. degrees at University of Bridgeport. They had this in placed with Housatonic Community College previously. Attendees were given the opportunity for questions and discussion. Jakob Spjut of CT State Quinebaug Valley noted that the references to specific community colleges need to be updated to just say CT State. Motion to approve the articulation agreement for Engineering Science A.S. degree at CT State to transfer to the Electrical Engineering and Mechanical Engineering B.S. degrees at University of Bridgeport, pending modifications of specific community college names to CT State, made by Jakob Spjut of CT State Quinebaug Valley; motion seconded by Sharon Gusky of CT State Northwestern. Lin Lin of CT State Middlesex asked if there is an updated articulation for Tech Studies: Computer Engineering Technology. Justin responded that University of Bridgeport (UB) came to him with the Engineering Science agreement so follow up with the contact at there and with him. Sharon Gusky asked if there was already an articulation agreement in place with UB for Engineering Science. Wendy Robicheau of the COT-NCNGM responded that yes, there was an agreement with the COT and UB, but that UB had also done some individual agreements. Justin noted we will want to update all agreements to be statewide and to have crosswalks updated with new course numbers. The motion was unanimously passed with no abstentions.

- **COT and NCNGM Upcoming Initiatives, Activities, and Important Dates - Dr. Karen Wosczyzna-Birch**

- **AARP Manufacturing Scholarships – Contact Wendy Robicheau - [wrobicheau@txcc.commnet.edu](mailto:wrobicheau@txcc.commnet.edu)**
  - Requirements – \_Students must be enrolled in community college advanced manufacturing program, age 50+, and willing to share success story with COT, NCNGM, and AARP. Contact Wendy to facilitate awarding of this scholarship between the student’s local foundation and the Tunxis Foundation.
  - The scholarship is \$1250 per student.
- **Xometry Scholarships – Contact Marisa Rubera - [mrubera@ccc.commnet.edu](mailto:mrubera@ccc.commnet.edu)**
  - This partnership was brought to the COT by CCAT for students in advanced manufacturing programs at CT State. Contact Marisa is you have not be involved yet but are interested.
- Share newsletter stories with Wendy Robicheau at [wrobicheau@txcc.commnet.edu](mailto:wrobicheau@txcc.commnet.edu). This can be anything related to students, faculty, events, and awards that can be shared statewide and nationwide.
- **[Journal of Advanced Technological Education](#)** - The next deadline for submissions is January 31, 2024. Articles for this peer-reviewed journal can be submitted by students and faculty. Submissions can be long or short articles or even opinion pieces. Karen Wosczyzna-Birch is on the editorial board and this is a publication through another national center funded by the National Science Foundation Advanced Technological Education Program. Sharon Gusky of CT State Northwestern is also involved as a mentor to those who want to submit to the journal. It is a peer reviewed journal. She noted that students are also inv invited to submit articles about projects they have worked on and research they have done.
- We will be doing the MET<sup>2</sup> Program again starting in January. Students will participate in a 2-week workshop learning professional and technical skills then work on industry projects during the spring semester. They will present their findings at the May COT Meeting. Recruitment materials will come out soon.
- **Upcoming Conferences:**
  - NSF ATE PI Conference – 10/25-10/27 – Washington, DC
    - This conference is invitation only. There will be five students from CT State Colleges and Universities attending and receiving the NSF ATE Student/Alumni Recognition Award. Only 60 students were selected nationally.
  - NCPN – 11/8 – 11/10, Charlotte, NC
    - The NCNGM will have a booth and presentation.
  - ACTE CareerTech Vision – 11/29-12/2 – Phoenix, AX

#### Upcoming COT Meetings

Thursday, November 16, 3:00-5:00pm – Virtual

Thursday, December 21, 9:00am – 12:00pm – In-Person @ Central CT State University