

EXCEL LETTER

News of EXCEL TECC • Mayfield Excel Technical Education Career Consortium

Serving School Districts:
• Aurora
• Beachwood
• Chagrin Falls
• Mayfield
• Orange
• Richmond Heights
• Solon
• South Euclid-Lyndhurst
• West Geauga

Vol. XVI No. 1

Fall 2015

Director's Notes

by Nathan Bishko

Welcome back students! I hope that you all had a relaxing summer and are ready for a great year. Excel TECC is coming off another banner year. Our graduating seniors earned over 8 million dollars in scholarships and we presently have a 97% post secondary placement rate. This means that virtually every student who completes an Excel TECC program will go on to college, the military or be immediately employed. We are also very proud to announce that Excel TECC was recognized nationally by Achieve, a national educational organization, as the premier Career Technical Education Consortium in the state of Ohio. Click here to read: http://www.achieve.org/files/Achieve_OHcareerTech.pdf

As always, please consistently check our webpage for Excel TECC events, noteworthy news and products and services offered by our programs. I have no doubt that this will be another fantastic year for our students and staff.

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Program Power

CADD INNOVATES!

by Craig Schmidt, Instructor

The 2015-16 school year is off to a great start! CADD Engineering Technology recently moved from Lakeland Community College to its new home at the Mayfield Innovation Center. The facility is located in the former library building outside Mayfield High

School, and has been completely renovated to support our CADD program, the Medical Technology program and Mayfield STEM programs. Our program has obtained new computers and a new large-format printer to go alongside our 3D printer and 42" plotter. With this upgrade, CADD students will work with current versions of all course software – AutoCAD 2016, SolidWorks 2015-16 and Revit 2016, a building information modeling program to be introduced to our seniors this year. CADD students will also have access to a large Fabrication Lab, complete with a CNC router, laser cutter, CNC lathe and other shop tools. The facility also includes an amphitheater, which will give students the opportunity to give and attend presentations in a more formal atmosphere. The Mayfield Innovation Center ribbon cutting and open house is scheduled for Friday October 9 from 4:00-5:30 PM, and all are welcome!

CADD students are currently involved in an exciting project – they are 3D printing and assembling prosthetic hands with the goal to be providers for e-NABLE, a worldwide program that provides mechanical prosthetic hands to those who cannot afford them – all at no cost to the recipient. The hands cost less than \$35.00 to produce in our lab, and give the recipients the ability to grasp items, throw balls, and even balance themselves on a bicycle. Once we are approved by e-NABLE, our program will then be matched with local recipients on an as-needed basis. Our students will be actively involved in measuring the recipient, collaborating with



CADD juniors Emily Pietrantone and Robert Hall assemble the 3D-printed parts into the prosthetic hand.



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Welcome New Excel TECC Staff 2015-2016



Keith Weathersbee is the new instructor for the Fire/EMS Academy program. He writes: "I am originally from Rockville, MD where I served as a volunteer Firefighter/

EMT-B for 3 years and a career Firefighter for 4 years. I moved to Ohio and continued my EMS career in private ambulance. Being a Firefighter/EMT/Paramedic has been an amazing experience and I could not have done it without all the practical information I learned inside the classroom and on the job. I am excited for the opportunity to teach and mold my students for this exciting career."



Debra Elam is the new Medical Technologies instructor. She comes to us from Ursuline College where she was Coordinator of the Nursing Resource Center. A registered nurse for over thirty

years, her experiences range over the medical field – surgical, cardiac step down, school nursing, alternative therapy and ten years in nursing education.



Anthony Corpora is the new VOSE coordinator for Mayfield schools. He writes: "Before I came to Excel Tecc, I was a Job Training Coordinator at CEVEC for 12 years.

I am the Crisis Prevention Instructor and serve on the District Safety Committee for Mayfield Schools. I currently am the head 8th grade football coach, head varsity bowling coach, head varsity girls track coach, and the varsity football strength and conditioning coach. I am very blessed to be involved with kids and staff on so many levels at Mayfield."

COSMETOLOGY

by Maryanne Hummell and Debby Kall, Instructors

The Mayfield Cosmetology program is off to a great start and would like to welcome the new junior students to the program. The seniors are excited to have opened their customer clinic to the public and will be preparing to take their State Exam this May. Hours of operation for the customer clinic are Wednesday, Thursday, and Friday 11:30 a.m. to 2:00 p.m. It is recommended that if you want to come in for a service you make an appointment by calling 440-995-6740. If you need a price list just call us and we can send one out to you. It is a great time to schedule a manicure or pedicure before winter comes.

Our senior students will be starting their Internship in a Salon in September and continue through January. This will give the students the opportunity to work hand in hand with a Managing Cosmetologist and will be able to perform the skills they have learned in their program. We are very excited that our students have the opportunity to go on an Internship. Our students have been placed in a number of salons in all of the school districts that send students to us. If you see them out there in a salon please say hi to them. They will need a total of 150 hours to be eligible for their State Board of Cosmetology Exam. This hands-on opportunity is great for both our students and the salon owners.

The Cosmetology students will have a booth setup at the Mayfield Fall Fest this October. It is held at the Environmental Education Center in Gates Mills. We hope you come out and visit our students. They will be polishing nails and doing crafts with the children.



Cosmetology junior class 2015-16

For 2015-2016 10th graders...Find out about Career Technical programs available for 2016-2017
**OPPORTUNITY DAY/NIGHT - Thursday
DECEMBER 10, 2015**

Field trip during the day for current 10th grade students;
Evening session for parents & students at 7:00 pm - all day at Mayfield high school

Director's Notes... (continued from page 1)

If you need information or have questions about any of our Excel TECC programs or are interested in a tour, please don't hesitate to contact me.

CADD INNOVATES...(continued from pg 1)

e-NABLE, and producing the prosthetic hand. This is truly an authentic learning experience.

The prosthetic hand project had an interesting beginning. Mrs. Burich, a French teacher at Mayfield High School, wanted to connect her students with everyday French language, and located a news story and video about the prosthetic hand for her class. After the story was circulated among district administrators, it was sent to teachers at the Mayfield Innovation Center. We were instantly intrigued by the video. This unlikely connection between a French teacher and a CADD teacher resulted in this experience for our students!

For the fifth straight year, Computer-Aided Drafting and Design Seniors will once again collaborate with the Excel TECC Construction Trades and Environmental Education programs as a part of the 2015-16 Modular Homes Project. CADD Seniors are currently preparing preliminary designs for homes to be constructed by the Construction Trades program. When the preliminary drawings are finalized, and the successful designs are selected, CADD Seniors will produce complete sets of construction drawings for each home. Once the homes are under construction, CADD Seniors will monitor the progress and resolve any issues our “clients” – the Construction Trades program – have. Each project is “themed”, and this year’s project promises to be quite interesting. This partnership between the CADD, Construction Trades, Environmental Education, Studio Art and Design, Digital Art and ITP programs gives students an authentic collaborative experience and could not exist in just a single program.

CADD Juniors and Seniors attended the Formtek, Inc. National Manufacturing Day on Friday October 2 for the second straight year. The event is planned as a trade show type event, which gave our students an opportunity to talk with a variety of different Engineering/Manufacturing companies in the Greater Cleveland Area as well as a variety of colleges and universities to learn more about their degree programs in these pathways. Our program has been invited to set up a display to showcase the prosthetic hand project, and CADD students will interact with the guests



[TOP] CADD seniors Mike Tuly and Ezell Williams play “catch” using the prosthetic hand



[CENTER] Working with the 3D-printed prosthetic hand, CADD students are installing the cables that allow the fingers to return to a natural position

[BELOW] The new CADD classroom at the Innovation Center



[RIGHT] The Fab Lab classroom at the Innovation Center



throughout the day.

You can follow Excel TECC CADD Engineering Technology on Instagram: @excelteccadd.

ENVIRONMENTAL EDUCATION

by *Environmental Education Instructors*

The CBI Environmental Education program, led by Mr. McCracken, has been very busy working on many projects during the first month of school. In the greenhouse students have been busy learning about Perennial plants and how to propagate them. Students have been dividing Hostas and planting cuttings of Butterfly Bush and Russian Sage. These perennials are grown by the class and will be available during our spring plant sale. On the grounds of the center students have been preparing an old area outside of the greenhouses into a new container garden area that will also contain a small polyhouse. This new area will give us added space to over-winter perennials and give us more selling space in the spring. The students have been learning important maintenance skills such as pruning, edging and mulching as they prepare this area. In the near future the students will be working alongside the grounds staff of Progressive Insurance preparing their grounds for fall plantings.

The students in Ms. Gardner's A.C.E. Environmental Education program have been enjoying the wonderful summer weather as they complete many off-site projects and field trips. Emphasis is placed on leadership, teamwork and customer satisfaction. Some of the students who have shown exemplary efforts while on such projects are: Tess Herold, Ayub Rainey and Jordan Andrusk from Brush High, and Jarod Smith from Mayfield. The A.C.E. students took a trip to visit the students that are enrolled in the Cleveland Botanical Gardens program at the Learning Garden. Students toured and worked the massive organic garden and concluded their trip with lunch at Gallucci's.

Every Wednesday Mr. Hayes, counselor with Excel TECC, visits with the A.C.E. students and discuss life skill topics. Students are very interested in financial matters and legal issues. Guest speakers are brought

in to support such topics. Other favorites include: etiquette, public speaking, how to properly set a table, laundry and ironing, how to tie a tie (yes, bow ties too). An annual trip the students take is to Grafton Correctional Institute for their Dope is For Dopes program. It is one of our memorable field trips. This is a fantastic program that ALL students should experience. It is a wake-up call for many.

All five of the Environmental Education programs came together on Thursday, September 17th for an FFA Day. Students heard a presentation from the recruiter for Ohio State-ATI, participated in some team building activities, learned and practiced parliamentary procedure, elected class officers and practiced some social skills with a grand cook-out!

Ms. Judson's Greenhouse Operations program is offering the Plant of the Month Club again this year. For a \$60.00 fee, members receive a beautiful plant or floral design six times throughout the school year. Customers, employed by our consortium schools, have their items delivered right to their school! The students are ready to show off their skills and bring a smile to your face. Call Ms. Judson at 440-995-7553 for information.

The class is very busy with work projects. Each week students will practice landscape and gardening techniques by working with the horticulturist at Beechmont Country Club and in various private residences. Several field trips and community



CBG students work on a beach clean-up



A.C.E. students at the Learning Gardens at the Cleveland Botanical Garden

volunteering are also planned, such as a Lake Erie beach clean-up and senior citizen leaf raking projects.

Poinsettias and holiday plants are growing and will be ready for the Holiday Open House which will be held on Friday December 4th from 8 a.m.-6 p.m. Hope to see you there!

The Environmental Education program received a grant from the Master Gardeners of Cuyahoga County. The grant was used to promote our program and careers in the industry. Several students participated in a summer program and created a display that was used at the Cuyahoga County Fair held August 10-16th.

Cleveland Botanical Garden class is off to an awesome start. The students are becoming very familiar with the specialty gardens at CBG. These gardens give our students a place for hands-on activities to make learning relevant to the students' future career choices. The

ENVIRONMENTAL EDUCATION ... (continued from pg 4)

students enjoy working at an urban vegetable garden called Midtown Learning Farm where we learn about fresh local Cleveland grown produce. If you are ever in the area look for the Yellow House off of Chester and 66th Street. They may even have a veggie stand open to pick up some organic veggies. Plant Identification is a large part of the curriculum this Fall that we study everywhere we go. This program is a success because of the high quality landscaped learning locations and many knowledgeable CBG staff members that work with our students. Check out some of the unique shows that we assist CBG horticulture staff with at cbgarden.org.

The Landscape Operations class at Gates Mills Environmental Center is evolving into a Landscape Design and Construction course to more align itself with what the industry needs in new hires. This will also allow the class to meet the new state course format. The students are learning new construction techniques with pavers and retaining walls, allowing them to broaden their future career search into the Landscape Construction business. The next step, which will start in a few weeks, is to go out into two residences in the area and install a flat stone retaining wall and rejuvenate a paver entertaining area. Also, as the students work on the Gates Mills Environmental Center's campus and out in local residents' properties, the students will be challenged to look for stressed plants, and investigate what the cause is. We will discuss the possibilities in class and come up with possible solutions. The results will be shared with our clients. Our FFA competition schedule starts in mid October with the districts at Mill Creek Gardens. Once there, the students will be required to perform a series of tasks including Plant ID and Landscape Design. The seniors assured me that they plan on going all the way this year. Stay tuned to see the students' successes.

On-Site Landscape Work
Fall/Spring Cleaning - FREE
estimates for special projects

Call Mr. Ed Tuhela for
scheduling: 440-995-7556



[LEFT & BELOW]
Students at the
Cleveland Botanical
Garden

[BOTTOM]
Max and Samantha at the
Learning Garden

[BELOW RIGHT]:
Alex in the virtual learning
classroom



Hello All,
My name is Rachel Schoville and I would like to take the time to introduce myself to the great staff members and students of Excel TECC. To begin, I will be joining Mr. Ed Tuhela at Gates Mills Environmental Education Center for the second half of the school year as a student teacher. I am looking forward to working with him as I know I will receive a great experience and all the knowledge I need to move into the future as an Agriscience Educator. As for myself I am a senior at The Ohio State University and will be graduating in May with a bachelor's degree in Agriscience Education with a minor in Production of Agriculture. I look forward to the year to come and hope I get the chance to meet all of you.
Sincerely, Rachel Schoville



MARKETING PROGRAM Restructuring Unites Leaders

by Greg Perry, Instructor

The Marketing Program at Beachwood High School has been restructured for the 2015-16 school year. Both senior-only Marketing sections are being taught by Mr. Greg Perry. Previously, the different home schools were assigned to one section or the other; this year students from all of the schools are mixed together. The two marketing sections will be working together this year on the same projects.

Already this year, the students have been engaged in the Effective Leadership Academy (ELA). ELA's mission is to help young people develop their most valuable asset – themselves! Through eight sessions, the Marketing students engage in activities that help them develop their own self-leadership so that they, in turn, can be effective leaders not only in the Marketing Program, but also throughout their professional and academic careers. One of the most important takeaways is that they understand that leadership is an “action” and not a position or title.

To guide the students throughout the year, they select a large community event that they can use to apply the marketing principles. Past successful projects have included 100 Leaves, Entrovation Expo, and The Green Dream. Stay tuned to see how this year's business leaders engage the community.

Studio Art & Design

by Dan Whitely, Instructor

- * Received an ART SUPPLY GRANT from Kent State University for a collaborative portfolio project with American Greetings titled, “Flavors in Every Culture.”
- * Cleveland Museum of Natural History has presented the opportunity to illustrate several themes for youth education programs held in the planetarium.
- * We will be traveling to Pittsburgh for our 1st biannual art review at the Andy Warhol Museum and the international/installation gallery museum, the Mattress Factory, this fall.
- * We are presently competing to represent 1 of 15 high schools chosen to represent “Arts Day” in Columbus, Ohio.
- * Orange Foundation Grant of \$5,000.00 has allowed the program to purchase 10 iPads Air.



Lindsey, Michael, Shelby, Gage and Kayla in a leadership exercise



Sydney, Emily, Sophie and Gerhard engage in team work

CONSTRUCTION TRADES

By Rick Zivny

Excel TECC's Construction Trades program is back in full swing and the students are all excited to learn. Last year the Ohio Department of Education presented our Construction Trades program the Tech Prep Exemplary Program Award for being the best

construction program in Ohio. Receiving this award was a great honor and would not have been possible without the hard work that the students put into the program.

This year we are thinking about building five or six tiny houses and one 2-story senior home. We may also purchase a trailer and build a park model camper on it and sell it upon completion. As always we are doing jobs in the community so if you would like a free estimate on work to be done by our class, please call Mr Rick Zivny at 440-995-6744.



Instructor Rick Zivny with the ODE Award

Bojana's logo for the wellness program



The Studio Art & Design program was asked to design one logo for four local communities' wellness vision. Recently the communities of Gates Mills, Mayfield Village, Mayfield Heights and Highland Heights acknowledged their new wellness logo designed by Excel TECC student, Bojana Jovanovic.



Bojana at the We Fit Together kick-off at Mayfield high school

Excel TECC

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Kay Vincent, Editor

Medical Technologies

by Joanna Davidson and Debra Elam, Instructors

Medical Technologies is overwhelmed with excitement and gratitude for our new location, The Innovation Center, formerly the county library, Mayfield Branch. The school year opened on August 17, 2015, where Medical Technologies students found themselves in the state-of-art building, housing everything they need to study today's diversified health occupations. The program is located in room 101 and 102 of the Innovation building and we encourage everyone to stop and visit.

The Medical Technologies lab features two new Human Patient Simulators (HPS) that will enable the students to acquire and refine their physical assessment skills. Aptitude will be objectively assessed concerning vital signs and adventitious heart, lung and bowel sounds. Hillcrest Hospital, one of our practice partners, donated hospital beds to our fabulous lab and graciously continue to offer senior internship placements. The lab is equipped with six hospital beds, one exam table, a Dental Exam Room with chair, a Geriatric chair, Hoyer Lift, gurneys, scales, intravenous equipment, vital sign equipment, and bedside tables with chairs to match each bed, to name a few additions. Presently, seniors are using the lab to refresh their skills learned from junior year. Juniors are in the lab learning handwashing and vital signs. Be careful, a Med Tech junior may ask to take your vital signs – it's part of their nightly assignment in order to perfect their technique.

Conjoined with the Medical Technologies Lab is the Med Tech classroom. It is equipped with new tables, chairs, lap tops and a short throw projector which allows the dry erase board to purpose as a SmartBoard. Juniors use the classroom daily where the seniors are utilizing room 102, a Bio Medical room. Collaboration with innovative technologies is at the heart of the Innovation Center and we, at Medical Technologies, look forward to interacting and complementing our curriculum with the STEM programs. Future endeavors will involve partnering with the tenth grade Bio Medical program to expand the learning opportunities for the health care occupation students. Bio Med will take us in to the world of genetic and forensic exploration, while Med Tech will, in turn, share anatomy and physiology information – invaluable knowledge for our students. Medical Technologies will also be collaborating with CADD, Computer-assisted Drafting & Design, its sister Excel TECC program, with its engineering initiatives – an exciting project is in the works as we speak, the potential to change someone's life is remarkable thanks to Mr. Schmidt's ingenuity.

As if this was not enough great additions we still have one more. This year we have a new Medical Technologies Instructor, Debra Elam. Ms. Elam is ecstatic to join Mrs. Davidson in the Medical Technologies program.

This is the first year for Medical Technologies to be located at one area. All seniors and juniors will be housed in the Innovation Building. The seniors will be able to help the juniors and share their internship experiences with them. Mrs. Davidson and Ms. Elam are excited to be working side by side which is a great benefit to the Med Tech students. This allows for unity and consistency in curriculum. Med Tech students can seek out either teacher at the same location and/or work with



Med tech students in the new classroom at the Innovation Center

Med Tech students in the conference areas of the Innovation Building. Moreover, Health Care Professionals will be speaking in the Innovation Building Amphitheater where all students are invited to come and listen.

We are thankful for our new location and building. Medical Technologies students and teachers are excited to be one of the first programs housed in the Innovation Building. We look forward to great growth within the Innovation Building with STEM and Excel TECC programs joining and sharing in good fortune. We are thankful we are part of the student academic collaboration programs housed within the Innovation Program. Please make a point of walking over and seeing us!

Finally, senior Jenna Steinberger writes, "During my junior year I was accepted into Med Tech and began to look at colleges. I began doing things that would matter in five or ten years or even thirty years. I realized that I need to focus on setting a strong foundation for my future. Medical Technologies has taught me not only about health care, but life lessons as well."



Equipment in the new classroom at the Innovation Center



Excel TECC
 TECHNICAL EDUCATION CAREER CONSORTIUM
 TECC Office: 6116 Wilson Mills Road • Mayfield OH 44143

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TAL ED

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TION/STUDIO
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DATES TO MIND:

ENVIRONMENTAL EDUCATION HOLIDAY OPEN HOUSE/ PLANT SALE

Friday DECEMBER 4-2015
8:00am-6:00pm

SPRING OPEN HOUSE/ PLANT SALE

Friday MAY 6-2016
8:00AM-6:00PM

Both Open Houses held at Gates Mills
Environmental Education Center
390 County Line Road
440-995-7565

Check out our public services & events:

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OPEN TO THE PUBLIC Beachwood Bistro

@ Beachwood High School
25100 Fairmount Blvd.

For Carry-Out Orders
(place before 10:30am)
and Reservations call:
216-831-2080 x131

Open Wednesday-Thursday-Friday
11:00am-12:30pm



GO TO: <http://www.mayfieldschools.org> >ExcelTECC
for news, program information & calendar of events

