

CTC Demonstrates Excellence in Practice in CTE

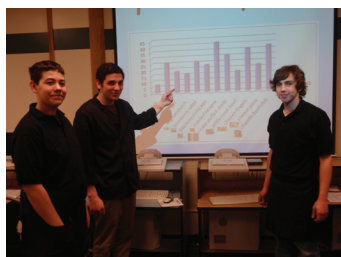
In late January, CTC staff and administrators were honored in Grand Rapids by the Michigan Department of Education with the prestigious **2011 Excellence in Practice Award**, which recognizes exemplary practices in preparing Michigan students for post-secondary education and careers. CTC was awarded this distinction as a result of its providing quality academic integration and the delivery of the Michigan Merit Curriculum in its technical programs. Using authentic delivery methods and contextual lessons that meet the technical, English Language Arts, math, and science curriculum standards, CTC instructional staff has been able to demonstrate outstanding outcomes, produce measurable results for students, and meet the challenge of high academic rigor. Since 2003, CTC has worked closely with its 21 local public school districts, parochial, and charter schools to assure that its students, enrolled in career and technical education (CTE) programs, received instruction and gained mastery in academic content standards that were consistent with those students not enrolled in CTC programs. With the onset of new graduation requirements for the 2011 graduating class, this academic integration initiative has been extremely valuable to those students who have chosen to pursue these elective career and technical training opportunities.

CTC has been recognized throughout the state as a model for the integration of academics in CTE and has served as a host to many visiting CTE and academic staff members from across the state, individually, collectively, and as part of a day-long conference, all intent on learning about its efforts to deliver academic instruction in a CTE setting. At CTC, student achievement is a constant focus and CTC has raised the bar to support the goal of having all students ready for college, careers, and the 21st century world.



Real-World Math Project Engages Culinary Arts Students

As part of their class work, Culinary Arts students found themselves in management teams of two – three members, calculating popularity indices for a simulated restaurant's menu items, developing graphs reflecting peak business times, determining staffing needs based on customer demands, performing recipe conversions, and calculating costs/serving and the resulting pricing for items. Each team needed to develop task lists for its members and each member completed a work log, indicating what was accomplished during the time period in which he/ she worked on this project. **Karen Shoskey**, the math teacher who works with the Culinary Arts program, created and assigned a project that integrated all of these math tasks. In addition, the students needed to demonstrate their communication skills by displaying their findings in an organized presentation that could be digital or in another form. One team in the PM section, consisting of **Eric Hanson** and **Stevan Ortega**, TC Central, and **Drew Peterson**, Benzie Central, worked efficiently to create a five-minute digital Prezi presentation in which they displayed their resulting calculations, graphs, graphics, and employee schedule for their simulated restaurant, "The Toasted Chicken."



L-R: Eric Hanson, Stevan Ortega,
Drew Peterson

Precision Machining Technology Receives Industry Approval

CTC Precision Machining Technology (PMT) instructor **Matt Teeter** has achieved valuable program accreditation from the **National Institute for Metalworking Skills (NIMS)**. A rigorous examination of his PMT program determined that the curriculum and program experience meets the high quality standards as established by NIMS on behalf of the nation's precision manufacturing industry. The accreditation is valid from December, 2010 - December, 2015 and will provide validation of quality career training to potential employers across the nation. Students who attend the PMT program have the opportunity to be NIMS-credentialed, signifying that they have mastered, to industry standards, a set of skills in a particular precision machining area. Only a handful of secondary students attempt this credentialing process, which requires not only an on-line assessment, but also a hands-on demonstration of the student's skills, as well as the completion of a capstone project. Currently, **Tyler Hartzell**, a Mancelona senior, is in the process of completing these requirements to be credentialed in Measurement, Materials, and Safety and Manual Milling Skills.



Matt Teeter

Electrical Occupations Goes Solar!

Outside the hallway leading to the door of the **Electrical Occupations (EO)** classroom, visitors to CTC can see a solar array that has been assembled and installed by second-year EO students and their instructor, **Tim VanderMeulen**. This solar array was purchased, using some grant funds, so that CTC and other schools in Michigan could collect data that documented electricity produced through the use of alternative energy sources. The students and Mr. VanderMeulen worked for approximately one week to assemble and install the array. This was a valuable lesson for students to learn, as this technology is relatively new and it required some trial and error on the part of the students and instructor in order to complete the installation process. As Mr. VanderMeulen noted, many contractors are reluctant to "take on" solar energy installation, as it is difficult to judge the amount of time needed to install and, thus, challenging to bid accurately as a job. Once the solar array was installed, **Information Technology** students then worked to connect it to the Internet so that it could interact with Enphase Energy to display the data that could document the electricity production. Currently, at any given time, Mr. VanderMeulen can get online and display graphically this data. Eventually, the solar array will be moved from its current location to the parking lot on the west side of Parsons Road and will be joined by wind turbines that will also be the source of alternative energy. CTC has entered the world of green technology!



Perfect Attendance Students Are Honored

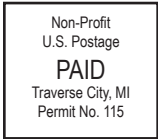
On March 22, CTC recognized the strong work habits of **148 students** by treating them to a pizza and pop party for having perfect attendance for the second quarter of the 2010-2011 school-year. This was a quite an accomplishment, but even more impressive was the fact that, of these 148 students, almost one-half or 70 students also had perfect attendance for the entire first semester! Employers often remark about the necessity for students, as current and/or future employees, to have a solid work ethic, and, demonstrating consistent positive attendance patterns is one hallmark of this work ethic quality. Congratulations are in order for these 148 students and special honors to the 70 students who have not missed a day of school for the entire first semester!

Continued on back



880 Parsons Road
Traverse City, MI 49686

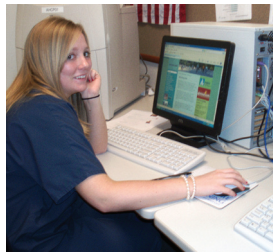
Our mission is to prepare students with skills and learning experiences for employment and life-long learning.



CURRENT RESIDENT OR

Allied Health II Students Pilot 21st Century Technologies

As a result of an application to be part of a pilot study, **Allied Health II (AH II)** students have spent the past several months learning about "21 Things" in technology that students should know. As part of this process, AH II students have been introduced to a variety of Web 2.0 technologies and then have been asked to evaluate the activities that use these technologies by providing feedback and suggestions. Students are able to access a web site, <http://www.21things4students.net/>, which has been created by a grant from the Regional Educational Media Centers of Michigan, and serves as an educational resource for educational technology for students. This site provides project-based activities which are aligned to the National Educational Technology Standards for Students (NETS-S) and the Michigan Educational Technology Standards for students (METS). As informational technology is one of the key elements of the AH II curriculum, participation in this pilot study was a "natural fit" for the program. **Leeann Fountain**, the AH II instructor, has worked with the students on their "developing a web presence," through a Weebly site; discussed the nine elements of digital citizenship by visiting cyber safety sites; explained the importance of Internet copyright practices and the role of Creative Commons; allowed the students to experiment with interactive tools such as Thinkfinity and Quizlet; and engaged the students with other Web 2.0 technologies. Upon the culmination of the pilot study, all students will have created a capstone project that involves the building of a Photo Story 3 presentation, incorporating graphics, music, and narration, that documents the students' two years of study in the Allied Health program. Several of these presentations will be used for student recruitment purposes in the future. At this point, student feedback on the website as well as the various technologies and projects has been mixed. According to the student feedback, the website needs to be "tweaked" a bit, as it has been a bit confusing for the students; however, they love the new applications learned, such as Animoto and Prezi, and are excited to have been introduced to 21st century learning technologies!



Alesha Welling, Buckley H.S.

Chef Jackie to be Honored as Outstanding Person in Education

Chef Jackie Cobb is CTC's recipient of the 2010-2011 "Outstanding Person in Education" (OPIE) Award. Chef Jackie is in her first year as one of the Culinary Arts paraprofessionals and has been a key person in front-of-the-house operations at the student-run restaurant, the World Class Café. OPIE awards are presented annually by the Michigan Education Association to individuals who demonstrate a high level of commitment, leadership and professionalism in the field of public education. Chef Jackie will receive her award at a special banquet and recognition program in May. Congratulations, Chef Jackie!



Jackie Cobb

NEWS AND NOTES

TBAISD Career-Tech Center, "A Great Place to Learn"

I hope all of you had a wonderful spring break and enjoyed time with family and friends. As the school year continues to move along at a rapid pace, great things continue to happen at the TBAISD Career-Tech Center. On March 22, the TBAISD Career-Tech Center welcomed 127 new members to the National Technical Honor Society (NTHS) at NMC's Dennis Museum. These students have maintained a B+ or better grade point average, showed leadership skills, exhibited good citizenship, performed community service, and have positively affected our school environment. This is the largest number of inductees into NTHS on record.



Patrick Lamb,
Principal, TBAISD CTC

TBAISD Career-Tech Center has also been chosen to present at the Governor's Education Summit on April 25, 2011. The presentation, *It's Not Your Father's Vocational Education Anymore: Systemic Academic Integration in a CTE Center*, will provide an overview of the TBAISD Career-Tech Center's model for systemic academic integration and the delivery of Michigan Merit Curriculum offerings, as well as share the history and development of this initiative. Receiving the Excellence in Practice award in January played a significant role in being chosen to present at this conference (see related article).

I hope you will take the time out of your busy schedules to read this quarter's *CTC Times*, and learn about all the great things going on at the TBAISD Career-Tech Center.

Accounting/Office Technology Students Shine at Competition

In mid-March, **Katie Doornbos**, Traverse City West, and **Courtney Lange**, Bellaire, traveled to Ferris State University with their Accounting/Office Technology instructor, **Julie Gauthier**, to compete in a regional career and technical education student organization (CTESO) competition. Both Katie and Courtney competed in the Employability Skills event which involved providing a professional resume and cover letter, as well as participating in an interview. They wowed the judges with the attention to detail that was demonstrated in their resumes and letters and with their top-notch interviewing skills. When the contest was over, both Katie and Courtney tied for first place out of a field of 11 competitors. Other contests in this CTESO competition involved game programming, web site creation, menu and event planning, criminal scene evaluations, lesson plan creation, and portfolio presentations, among others. Participating intermediate school districts included Mason-Lake, Mecosta-Osceola, Newago, Traverse Bay Area, and Wexford-Missaukee.



Katie Doornbos, Courtney Lange

Nondiscrimination Policy: It is the policy of the Traverse Bay Area Intermediate School District that no person shall, on the basis of race, color, national origin, creed or ancestry, political belief, sex, disability, handicap, religion, age, height, weight, or marital status be excluded from participation in, denied the benefits of, or be subjected to discrimination under any program or activity or employment.

