

## **Roughrider Area Career & Technology Center Newsletter**

**September, 2016**

**Wayne Olson, RACTC Director**

### **CTE Legislative Tour**

The North Dakota Career & Technical Education Administrators will be hosting statewide CTE Town Hall meetings to provide information to area legislators and media. These events will be held the week of September 19-23 and will be held in West Fargo, Wahpeton, Oakes, Valley City, Bismarck, Dickinson, Williston, Minot, Devils Lake, Grafton and Grand Forks.

The RACTC will be hosting the event in Dickinson to be held at 9:00 MT on Wednesday, September 21. This event will be held at Dickinson High School. All area legislators as well as local TV stations and newspapers have been invited to attend.

During this hour event the legislators will hear brief informational statements from Rick Ross representing the North Dakota Career and Technical Education Administrators and Jarrod Nagurka from the National Association for Career and Technical Education. Wayne Olson, director of the RACTC will explain how the RACTC works and how we share instructors and equipment to deliver CTE classes to our 12 member schools. A local business person will also speak about the importance of CTE programs in the area and the local needs for employees with CTE training. Mr. Kevin Nelson, Hebron Superintendent will also speak about the importance of CTE programs to local school districts.

All RACTC superintendents and board members are invited to attend this event. Please enter through the main doors on the east side of DHS. The Town Hall meeting will be held in the computer lab. I would also like to thank Dr. Sullivan and Principal Ron Dockter for allowing the RACTC to host this event at Dickinson High School.

### **Health Sciences Department**

The RACTC currently employs two full time Health Sciences teachers. These two teachers are offering classes in Health Careers I, Health Careers II and Medical Terminology. Plans are to expand the curriculum next year to add classes in Sports Medicine and Athletic Training and EMT. I am planning to meet with the RACTC Principals later this fall to get their direction as to class offerings and scheduling.

At this time we have 104 students in 11 schools taking Health Sciences classes each semester. Mrs. Bobbie Johnson is in her third year as a teacher and teaches on site classes at Dickinson High School, as well as being a SkillsUSA advisor. Mrs. Johnson has completed the Transition to Teaching program and is fully certified by ESPB with a five year teaching certificate.

Mrs. Bobbi Schneider has just begun her first year as a teacher and teaches Health Sciences classes to 10 schools through the ITV and Tegrity systems. She is teaching out of an ITV lab at Hebron High School. Mrs. Schneider has a two year certificate from ESPB and is currently enrolled in the Transition to Teaching program. She has two years to complete this program and will then will also be able to obtain her 5 year teaching certificate. Besides her teaching duties, Mrs. Schneider also has coaching duties at Hebron Public School.

### **Distracted Driving Event**

Mrs. Bobbie Johnson, RACTC Health Science instructor is working with her Health Science students to host a Distracted Driving event at Dickinson High School on Wednesday, September 14. This event will simulate a crash scene that was caused by a distracted driver. Her students have been part of the planning and coordinating of this event and will also be participants. Also taking place in the event are members of the ambulance department, fire department, police department and other law enforcement officers as well as air ambulance.

This event will be attended by all Dickinson High School students and will be used to draw attention to the dangers of distracted driving including the use of cell phone while operating a motor vehicle. Mrs. Johnson's students are also hosting a bake sale with the funds going to a family that lost family members earlier this summer in an accident involving a distracted driver.

### **Welding Academy**

In June the RACTC in a joint effort with the MREC hosted a Welding Academy in Bismarck for high school students. This year 20 students attended the weeklong event. The students were able to receive arc welding training and weld certification in flat, vertical and overhead arc welding. The Instructors for the Welding Academy were Barry Schneider, Bismarck and Rudy Privatsky and Clarence Hauck from Dickinson. The plan is to host this event in Dickinson next year and to alternate it between Dickinson and Bismarck. Students in attendance were from Bismarck, Standing Rock, Hazelton, Beach, New England, Richardton/Taylor, Hebron, Glen Ullin and Dickinson.

### **High Technology Equipment**

Nine RACTC schools participate in the Emerging Technologies program that introduces students to high tech equipment. The RACTC currently rotates this equipment to member schools for a six week period of time. At this time we are rotating around \$230,000 worth of equipment to member schools. A major component of this project is the ongoing training of instructors and keeping the equipment in good working condition. The equipment that is currently being rotated is:

#### **Hydraulic/ Pneumatic/ Mechanical**

This module is intended to teach the core concepts of mechanical/industrial technology. The trainers include all parts necessary to learn the basic principles of mechanic, pneumatics and hydraulics.

#### **Biotechnology**

This unit utilizes a series of experiments in DNA extraction and plant growth cycles. The unit contains all the equipment and perishable supplies needed to extract and analyze DNA and to observe the plant life cycle.

#### **Global Positioning/ Global Information Systems**

The unit introduces students to the complete study of GPS functions and operations. It also introduces GSI data base with hands-on activities.

#### **CNC Router**

The module is intended to teach computer numerical control and machining concepts. Students experience the design, programming and production of a finished part. The unit uses industry standard CAD and CAM software to teach students about today's automated manufacturing systems.

### Laser Engraver

This module is designed to take students from manipulating graphics to production of a final product. The module is ideally suited for preparing students for the rapidly increasing demand for workers in the graphics and production career area.

### Portable Welder

The module is designed to provide students with access to different types of portable welders. The students are introduced to SMAW and GMAW equipment.

### Embroidery

The commercial embroidery module is intended to continue CNC principals based on the Universal Coordinate System and plotting points. It utilizes computers with embroidery digitizing and editing software. Students are exposed to cost and time of manufacturing.

### 3-D Printer

The 3-D printer unit is designed to teach students the principles of 3-D drafting using SolidWorks. The students are able to design and manufacture parts using the Uprint 3-D printer. In manufacturing the 3-D printer is used to design prototype parts before production.

### Vinyl Printer/ Cutter

This unit gives students the ability to design and print vinyl products using the Roland BN-20 Printer. The unit makes use of the CoralDraw program for design purposes.

### **Next RACTC Board Meeting**

The RACTC Board of Directors will meet at 6:00 PM MT, Wednesday, October 5th in room 112 of the Student Union at Dickinson State University