

Virginia Schrader, Director

409 Eagles Way, North Conway, NH 03860

Phone: 603-356-4370

[www.mwvctc.com](http://www.mwvctc.com)

### Conway School Board Report – September 11, 2023

#### Introduction:

This report highlights the recent activities and achievements of high school students in the Conway School District, with a specific focus on Career & Technical Education (CTE) programs. These programs play a crucial role in preparing students for future careers by providing hands-on experiences and specialized knowledge.

#### School to Career Summer Camps (Joe Riddensdale):

The MWV School to Career Partnership week-long summer camps are designed to introduce local middle school youth to the variety of programs offered at KHS/MWVCTC and career opportunities available in the valley. This coalition between the Mt. Washington Valley business community and the nine area schools in SAU#9 and #13, MSAD 72, and Fryeburg Academy has made this one of the most successful summers ever. Most camps are for middle school youth entering grades 7, 8, or 9. The FAA ACE Camp for STEM Aviation is available to youth entering grades 8, 9, or 10. Thanks to a generous grant, each week-long program was FREE for all students in 2023, and all camps were filled. In addition to the FAA ACE Camp, the following camps were offered: Photography, Mission to Mars, Robotics, Culinary, Construction, Health, and a “Sampler Camp” for 5th and 6th graders in cooperation with Project Succeed. New this year was the addition of an Outdoor Recreation camp offering basic wilderness first aid topics and CPR, flat water canoeing, whitewater canoeing, river safety and rescue skills, and whitewater kayaking.





#### **Student Spotlight Quarter 4; SY 2022-23:**

Our teachers have recognized exceptional dedication and outstanding performance among students in their Quarter 4 classes, marking the culmination of the previous academic year. These deserving students have been chosen to receive the Student Spotlight certificate, a gift certificate for the school store, and the opportunity to have their photos displayed on our bulletin board. Here are the students who have earned this distinction:

#### **Construction Trades - Patrick Laughland**

Patrick is a hard-working student in the Construction Trades Level 1/2 class, an independent class, and an after-school program. Patrick has what it takes in my classes to be a team leader in the future. He is always willing to learn new ways of building.

#### **Business Education - Sabrina Cook**

Sabrina is a curious and engaged student who takes advantage of class time and genuinely seeks to understand everything we study and discuss. She is a model of hard work and integrity and motivates those around her.

**Criminal Justice - Corbin Powers**

Corbin comes to class every day prepared and ready to learn. He is deeply interested in the Criminal Justice system and often sparks great classroom discussion by asking insightful questions. He is a natural leader in our group projects and always gives his best effort.

**CADD - Zoe Groves**

Zoe is an extremely hard-working student and puts forth exemplary craftsmanship in all her projects. She is highly creative and frequently incorporates a variety of artistic designs into CADD projects. Zoe consistently demonstrates a passion for art, design, and 3D creations.

**Computer Programming - Jackson Abbot**

Jackson has actively taken every opportunity to take Computer Science classes, going so far as taking all 4 Intro classes this year. He is hard-working and a model communicator. He is an excellent student overall.

**Automotive - Devon Smith & Wes Yeaton**

Devon Smith & Wes Yeaton are a quiet freshman team of Intro Auto students who don't quit. They work off each other's strengths and finish the projects or jobs. They are not afraid to ask questions.

**Advanced Manufacturing - Martin Lockhart**

Martin just finished helping lead our school in a prototype project for NASA. He is a creative and hardworking young man, who is always up for the biggest challenges.

**Marketing Education - Kayla Erwin**

Kayla has done a great job taking a leadership role in the marketing program. She makes sure the classroom is in order and is willing to put extra time in to make the classroom conducive to learning. Kayla also planned and executed the plan to make the school store window look amazing. Well done, Kayla!

**Teacher Education - Ivy Zipf**

Kind. Compassionate. Dedicated. Fierce. All words to describe this future educator. Ivy will be an incredible teacher! Her dedication to learning makes her a role model for her peers and younger students. I cannot wait to see her in action as she continues her educational adventures within the Teacher Education program this fall with an ELO at Conway Elementary School. Those 3rd graders are very lucky to have you as part of their adventures in learning.

**Extended Learning Opportunity - Ashlyn Mattei**

Ashlyn is a driven and self-directed student who took time after school and in the summertime to complete her ELO. She displayed adaptability, resilience, and grit as she navigated her challenges. The result was a wonderful ELO on working with and taming horses. She formed a special bond with the animals she worked with and learned a lot.

### **Visual Media - Quinn Barbin**

Quinn is a self-motivated innovator with skills that range from creativity to technology. His work ethic and project management propel his and his classmates' projects forward with a clear and creative direction.

### **Culinary Arts - Aubrie Comer**

Aubrie is a Culinary 2 student interested in exploring a career in Culinary Arts. She also assisted our Culinary 1 class as a Teacher's aide. She can be depended on to show up on time and prepared with a good attitude. She carries herself very professionally in class, in the kitchen, or at a catered event. She is respectful and ambitious, frequently seeking new projects and work that must be done. She rarely lets unimportant interruptions negatively affect the quality of her work. We are hopeful to have her as a returning member of our ProStart Culinary competition team.

### **Outdoor Recreation/Bike Tech - Rob Burton**

Rob Burton has demonstrated high competency in bicycle repair this semester. Rob has excellent attention to detail and consistency, making him an awesome bicycle mechanic!

### **HST/LNA - Shilee Thompson**

Shilee received the Student Spotlight for this year's LNA Course due to her strong work ethic, intuitive spirit, and thoughtful demeanor. Shilee carefully completes assignments, has excellent attendance, and provides high-quality care to patients in the clinical setting.

### **Stem Aviation - Charles Doherty**

Charles is an enthusiastic aviator as well as a top student. He recently got to fly along on an Air National Guard refueling mission and pilot a glider.

## **Where are they now?**

### **Russell Wilcox – KHS Class of 2006/UNH-Engineering Founder & CEO at Urban Energy New York, New York**

Turned an urban commercial solar contractor with \$300k in revenue into a vertically integrated solar developer, innovative EPC firm, and technology provider with over \$10 million in projected revenue for 2023

- Designed first-of-its-kind Solar Canopy racking attachment method suitable for mass deployment on load-constrained urban multifamily rooftops; design has been validated by third-party structural engineering partners and approved by the Department of Buildings
- Created sophisticated PVSyst adder methodology for simulating bifacial gains on solar canopies with reflective roofs which has been validated by an Independent Engineer (IE); methodology used to justify a 15% bifacial adder to underwrite solar project financing for a 2.2 MW portfolio of 29 urban multifamily buildings

- Recipient of NREL's American Made Solar Prize Round 4 Ready! and Set! grant to advance Solar Canopy commercialization. \$150K in non-dilutive funding and \$75K in vouchers at Sandia Labs.
- Participant in the NYSERDA-funded Scale for Climate Tech program to prepare the Solar Canopy for manufacturing readiness

**Kate Taylor – KHS Class of 2010/Carleton University**

**Brand Marketing @ Sephora | Integrated Marketer, Strategic Advisor, Brand Developer**

Led the transition of brand marketing to an established function in Canada, focused on building marketing plans to drive sales and client acquisition with our brand partners. My role has evolved to advise brands on how to strategically and tactically win at Sephora leveraging an omnichannel approach. I consult across a variety of marketing levers including client messaging, advertising, paid media, social media, and sampling strategy to achieve mutually beneficial business objectives.

What do I love to do? Inspire students to go after the career of their dreams. Honored to be speaking at the virtual Ryerson Marketing Association (RMA) Conference where I'll be talking all things beauty & career.

**Skills:** Marketing Advisor · Negotiation · Relationship Building · Integrated Marketing · Marketing Analytics



## 2022-23 Outdoor Recreation Career Pathway Accomplishments

**Introduction:** This report highlights the significant achievements of the Outdoor Recreation (OR) Career Pathway at the Mt. Washington Valley Career & Technical Center (MWVCTC) during the 2022-23 academic year. These accomplishments demonstrate the successful implementation of the OR program and the valuable partnerships established with industry leaders and organizations.

1. **Establishment of the OR Advisory Committee:** The OR Advisory Committee was formed with over 25 members representing various segments of the OR industry, including prominent organizations such as Stan & Dan's Ski & Bike, Gorham Bike & Ski, Cranmore Mt. Resort, Omni Mt. Washington Resort, US Forest Service, NH Fish & Game, Appalachian Mountain Club, Upper Saco Valley Land Trust, Granite Outdoor Alliance, and others. The committee played a crucial role in developing curriculum scope and sequence modules that align with the recently established Outdoor Recreation Career Pathways by the NH Department of Education. (see OR Competency Crosswalk & Modules document)
2. **Pilot OR Career Pathway Program:** MWVCTC became the first career and technical center in New Hampshire to offer OR Career Pathway programming. A large classroom was outfitted with equipment, supplies, bikes, and other resources worth over \$65,000 to support the inaugural bike technician class. This was possible through funding from the federal Perkins Innovation grant, the University of New Hampshire (UNH), and the Granite Outdoor Alliance.
3. **Project Bike Tech (PBT) Certification:** The first PBT class, consisting of 17 students, completed the semester-long course. Project Bike Tech, an accredited program focused on bicycle education, serves as a conduit to teach STEM principles. Students who completed the course obtained PBT Level I Bike Mechanic certification. Encouraged by the success, a second PBT class with 19 enrolled students is scheduled for the upcoming 2023-24 school year. Additionally, in collaboration with Tri-County Cap and NH's Outdoor Mobility Office, the Bike Tech program repaired 25 donated bicycles to provide free bikes to community members in need, offering valuable work-based learning opportunities to students.
4. **Wilderness First Aid Class:** MWVCTC organized a two-day Wilderness First Aid class at SOLO, where 12 students acquired WFA certification. This program will be offered each semester in the coming school year.
5. **CAST/UNH's Outdoor Youth Research Project:** Ten students actively participated in the CAST/UNH's Outdoor Youth research project in the fall of 2022. This full-day event at the Highland Center in Crawford Notch involved beta-testing an app designed to identify STEM skills and learning within outdoor activities. The project aims to help rural learners develop STEM skills, paving the way for high-wage, high-skill STEM careers. As a result, this event initiated a year-long partnership between the researchers and students. This partnership involves ongoing app usage and monthly check-ins. In October 2023, both researchers and students will meet again at the Highland Center. The purpose will be to review data and establish an action plan for the upcoming 2023-24 school year. Initially initiated by the NH Charitable Foundation, the National Science Foundation now supports the project.

6. **Contribution to Recreation Economies:** MWVCTC enthusiastically supports the U.S. Department of Agriculture's plan to expand recreation economies in rural America. Through a Memorandum of Understanding, MWVCTC collaborates with USDA Rural Development, the USDA National Institute of Food and Agriculture, and the U.S. Forest Service to develop an annual plan that fosters economic opportunities related to recreation in communities surrounding national forests. This initiative aims to benefit communities, public health, and economic development.
7. **Student Opportunities and Recognitions:** MWVCTC provided numerous opportunities to engage in outdoor recreation. These included a two-day ice climbing adventure during February vacation week, facilitated by International Mountain Climbing Guides, emphasizing safety awareness and personal responsibility. Additionally, students participated in the Diamond 48 Film Festival, collaborating with Granite Outdoor Alliance and the Mount Washington Back Country Ski Festival organizers. Their action film, "*How Ya Feeling?*" tied for 1st place, showcasing their backcountry skiing and video storytelling skills.
8. **Senator Jeanne Shaheen's Visit:** Senator Jeanne Shaheen visited MWVCTC, touring the Pine Hill Community Forest's latest trails and meeting with representatives from the outdoor recreation industry. She interacted with Project Bike Tech students, demonstrating their newly acquired skills. These students also actively contributed to the development of the mountain bike trail system alongside renowned professional trail builder Matt Coughlin.
9. **Outdoor Recreation Summer Camp:** The first OR camp debuted this summer. The twelve spots available were filled immediately. Students attending this five-day camp in July include learning basic wilderness first aid topics and CPR, flat water canoeing, whitewater canoeing, river safety and rescue skills, and whitewater kayaking. Students may earn a CPR card, an American Canoe Association Essentials of River Safety and Rescue card.
10. **MWVCTC's Construction Trades:** Students built three kiosks for the partially opened Mount Washington Valley Rec Path, welcoming visitors at designated entry points.
11. **NH Charitable Foundation (NHCF) Grant:** In July 2023, MWVCTC applied for and received a \$10,000 grant from the NHCF to further develop our Outdoor Recreation program for the upcoming school year and summer camp 2024.

**Conclusion:** The 2022-23 academic year was filled with remarkable achievements for the Outdoor Recreation Career Pathway program at MWVCTC. The establishment of the OR Advisory Committee, the successful implementation of the OR program, and students' engagement in experiential learning opportunities have solidified MWVCTC's position as a pioneering institution in outdoor recreation education. The continued collaboration with industry partners and the pursuit of innovation will further enhance the program's impact in the coming years.

Respectfully Submitted,

Virginia Schrader, MWVCTC Director

