Student Technology Showcase at the Conference
(STS at the Conference)

Description of projects being presented at the 2018 Student Technology Showcase:

Greenville Public Schools
Baldwin Heights
Teacher: Matthew William Hoenshell

Our Life with STEM

We would like to demonstrate how we are bringing the world of STEM into our classroom through programming, robotics and 3-d design.

Catholic Schools Diocese of Kalamazoo
Hackett Catholic Prep High School
Teacher: Lorri Batsie

Storytelling with Bloxels

In our App Development course, students discussed the elements of a good game. Students decided engaging games are built around well-told stories with player choice. Using the Bloxels platform, students worked on the elements of a story then produced games.

Students had to learn the Bloxels game platform, including how to animate characters, create obstacles, settings, and even give a "brain" to villains.

Students learned about design thinking with the user in mind, applied a template to record their work, shared discussions on our boards in Schoology, and recorded their progress in a series of assignments.

Demonstrating each element of their game, they presented their finished game to the class and at a staff meeting. Games are also available on Bloxels Infinity Wall.

Students will also share from their experience at STS at the Capitol.

Innovative Education Services
Innocademy Zeeland
Teacher: Kate Webb

Middle School Life: From Coding to Chrome

Our Middle School students have the chance to take learning and exploring in their own hands. They utilize Google Classroom and other Chrome based programs for their daily coursework via our 1 to 1 Chromebook program. As such, instruction, collaboration, and projects blend the digital and physical worlds. Middle schoolers also choose two classes per semester from a wide variety of electives, including animation, coding, and the technology support team. Our group will share pieces of their middle school lives by walking visitors through their core courses, highlighting their favorite projects, and explaining what it is like to have one foot in both the digital and traditional realms of learning.

Laingsburg Community Schools
Laingsburg Middle School
Teacher: Angela Clark-Pohlod

Burg Broadcast: Student Media at Laingsburg Middle School

Laingsburg Middle School's Burg Broadcast is a student video journalism and yearbook development program. Students learn photography, videography, interviewing, editing, and production skills. Students in broadcast produce a live news show each week presented to middle school students during FLEX classes. There are announcements, student-created videos, interviews, weather, and sports presented during the news. Students learn and hone their skills on responsible television production and meeting deadlines. Students also learn yearbook design and publication. We hope you will check out our twitter feed (@LMSWolfpack) and our YouTube channel (Burg Broadcast)!

Berrien Springs Public Schools
Mars Elementary School
Teacher: Renee Peddie

Integrated STEM in Second Grade!

Second grade students will share how they use various forms of hardware and software to enhance learning and solve problems. Guests can expect to explore a variety of exceptional technology resources: iPads (with many apps, including coding), Makey-Makey's, Ozobots, Osmo's, Little Bits, and several "unplugged" games.

Learn how these young students use the Engineering Design Process to meet their personal learning goals (CCSS). You too can utilize technology in the classroom to maximize engagement and academic growth!"

Marshall Public Schools
Marshall Opportunity High School
Teacher: Jason Raddatz

Autonomous Piloting in an Alternative Education Science Class

Working with precision and eliminating error is important to any experiment. To quote a Marshall Opportunity High School student, "It is how we know that the independent variable is what we are measuring instead of an intervening variable." Students at the Marshall Opportunity High School design experiments and compare results between human and autonomous piloting through their drone program that is embedded in their Physics class. Comparing data from both autonomous and human piloting allows students to integrate their math, programming and science skills into feedback that demonstrates their ability to apply Newtonian Physics beyond a worksheet and make predictions based on observations. Students begin with Spheros and then graduate to Parrot Travis cargo drones, and then pilot Phantom IIIs over an eighteen-week course (broken up into two independent 9-week courses).

Novi Community School District
Parkview Elementary
Teacher: Laura Green

Genius Hour, Where Passions Projects Come Alive

During the past two years, each Friday becomes that special place, space, and time, for our student-centered classroom. Students explore engineering, chemistry, robotics, coding, sewing, art, public issues, and more. This platform has ignited high interest, which cultivates a love of learning, dreaming, and change agents. Passion is the foundation; technology, questioning, and creativity have become the building blocks. Discover how our journey began and what we needed to do to make it a reality. The possibilities continue to be endless!

West Bloomfield School District
Roosevelt Elementary
Teacher: Christina Sipila

Exploring the US Regions through a Variety of Technology

Students will use various technology components to study and explore the U.S. Regions. Pow Tunes will be used to create a story about a particular region. Students will use Ozobots to travel through a student-created map, stopping at a variety of QR codes to explore other historical and tourism destinations. Lastly, students will demonstrate how a Makey Makey can make the culture of a region interactive, fun and engaging.

West Bloomfield School District
Roosevelt Elementary
Teacher: Kristi Law

Road Trippin' through the US Regions via Google Maps

Students investigate and learn about the different U.S. Regions first, by researching and documenting in Google Docs. Students then create a Road Trip via Google Maps. This interactive mapping application allows users to drop pins at specific landmarks, make notes about what the Road Trippin' participants should note about each of the landmarks and then add mileage, titles, compass rose and legends. This project integrates U.S. Regions, map skills, nonfiction reading, note taking and nonfiction writing.

West Bloomfield Schools
Scotch Elementary School
Teacher: Cindy Carson

3D Printing & Design with Doodlers

Our 3rd through 5th grade students are using the New Matter ModT printers along with TinkerCad to create 3-Dimensional objects. Students will highlight some of the design work, engineering process, and finished products. The 3Doodler pens will also be part of our showcase.

West Bloomfield School District
Sheiko Elementary
Teacher: Jennifer Fisher Ninan

Bloxels- we create interactive video game avatars. Osmo- uses a variety of interactive pieces for logic and creativity games.

St. Johns Public Schools
St. Johns Middle School
Teacher: Renee Jorae

Connecting Technology at St. Johns Middle School!

We invite you to meet the talented Redwings of St. Johns Middle School! Our students have embraced learning in a virtual world! Using SketchUp, they have designed toys, sculptures, and other realistic objects. Students will also feature 2D digital art projects showing off their photography skills and feature programs such as ArtRage, Paint.net, and Befunky.com. In addition, we will share our latest community service video created using Pinnacle Studio. Students demonstrate their knowledge and skills by publishing student-created animations and videos via their student-developed Weebly blogs.

Students are excited to showcase what they have learned thus far in their courses. Each featured student is enrolled in a 12-week technological course through which they experience scaffolded, project- and lab-based digital learning experiences with a deliberate shift in the locus of control to the student by the midpoint in the course.

To view all student blogs go to **www.SMARTeKIDS.net**

Diocese of Grand Rapids
St. Mary School
Teacher: JB Watters

The Future of Organ Donation

Organ donation is at a critical stage with more people needing organs than are currently available. This project focuses on the future of organ donation including the manufacturing of Human Organs. Dean Kamen is proposing using the patients own DNA to 3-D print the needed organs. This would eliminate rejection issues and is only limited to what the technology can produce.

Diocese of Grand Rapids
St. Stephen School
Teacher: Angie Dressander

Seesaw in Action!

The Seesaw app has transformed our learning, come and see how we use it to share our learning with each other and parents.

St. Joseph Public Schools
Upton Middle School
Teacher: Dana Walsworth

Connections Beyond the Classroom

After using a SoulPancake "That Moment" video of actor, Siaka Massaquoi, to introduce a writing assignment, a simple comment on the video on social media lead to a response from Siaka and immediate connections from L.A. to Saint Joseph. After sharing videos back and forth, 33 students created an iMovie and google slides to introduce themselves to the actor before a google hangout was scheduled in November so the students could ask questions about his life from his childhood, to college football, to his acting career. Find out how SoulPancake flew Siaka, a producer, and sound and cameramen to Upton Middle School to surprise the kids! After meeting with the original 33, Siaka shared his message of positivity, love, and encouragement with the entire 7th grade class in the auditorium. The footage from the day will be made into a SoulPancake documentary about making connections.

Vassar Public Schools
Vassar High School
Teacher: Theron Nesbitt

Live video broadcast of our weekly news production using multiple cameras, virtual studio using green screen, and use of teleprompter and video switching equipment.

West Ottawa Public Schools
West Ottawa High School
Michigan Virtual
Teachers: Becca VanWeerdhuizen, Media Technology Specialist
and Thomas Soria
Director of School Partnerships
Mentor for Online Learners

Any Time, Any Place, Any Pace Learning

Come see West Ottawa High School students display their skills learned in Michigan Virtual online classes. West Ottawa students are enrolled in various courses - core, elective, and advancement - including American Sign Language, World History and Geography, Personal Finance, and AP Computer Science. Michigan Virtual offers great flexibility for students delivering over 200 online courses, including 23 Advanced Placement courses and seven world languages. Online courses feature streaming audio and video, computer animations, email, chat rooms, digital portfolios and more. Courses are taught by Michigan-certified teachers and supported by an on-site teacher mentor. Stop by

and let the West Ottawa High School students demonstrate how online learning is providing them flexibility, course variety and an exciting way to learn.

Western School District
Western Middle School
Teacher: Ted Densmore

Programming Our Future

The students will present how programming robots will impact everyone's future. They have learned how to build and program robots to solve various tasks that involve the interaction of humans and robots. Using LEGO EV3 robots the students will demonstrate and explain how sensors can be used in autonomous cars and factory machines to create SMART human aids.

Whitehall School District
Whitehall Middle School
Teacher: Ashlyn Silverthorn

FIRST Robotics

The goal of this presentation is to present the Whitehall Middle School Robotics team's robot and what we do in robotics. This last season our team received the Think Award for the outreach we are doing and the effort we put into our robot. FIRST robotics is an exciting program and something we would love to share more with the public.