

Fall Science Update Conference
Wednesday, November 15, 2017
Russel H. Kirkhof Center GVSU Allendale campus

Session A 8:30 - 9:30 AM						
Session Number	Presenter(s)		Organization	Presentation Title	Description	Grade Level
A1	Tom	Occhipinti	Michigan Department of Environmental Quality	MEECS Online Courses & Earth Day 2018	Review the Michigan Environmental Education Curriculum Support (MEECS) Online units and their alignment to Michigan Science Standards, with a brief demonstration. Learn about Earth Day 2018 with inspiring STEM focus!	Kindergarten - 2nd, 3rd - 5th, 6th - 8th
	Chelsea	Dickerson				
A2	Janet	Vail	Grand Valley State University	Getting Little Feet WET	Experience the new Project WET (Water Education for Teachers) developmentally appropriate curriculum with lessons for young children. Students explore science by learning about water properties and the importance of water.	Kindergarten - 2nd
A3	Rob	Keys	Cornerstone University	Oh Deer! Populations, Models, and Technology	Investigate how populations of deer change on a hypothetical island, then apply this to an actual urban park and then use picture data to analyze actual deer populations. Handouts & data.	3rd-5th, 6th-8th
	Benjamin	VanDyke				
A4	Rhiannon	Mulligan	John Ball Zoo	Zoo STEM - Engineering for Animals	Integrate STEM into every Zoo trip or bring it to your classroom with our Exhibit Design class. Problem solve with a team to engineer an exhibit designed for the animal.	6th-8th, 9th - 12th
A5	Jessica	Vander Ark	West Michigan Environmental Action Council	Going Zero Waste in Your School	Interested in taking the waste reduction journey with your students? We will share reducing, reusing, recycling, and composting lesson, projects, and real-world solutions to the landfill problem.	3rd-5th, 6th-8th
	Lauren	Westerman	Kent County Department of Public Works			
	Andrew	Light	West Michigan Environmental Action Council			



Session B 9:45 - 10:45 AM						
Session Number	Presenter(s)		Organization	Presentation Title	Description	Grade Level
B1	Nagnon	Diarrassouba	Grand Valley State University	Teacher Preparation and Practical Strategies for Teaching Mathematics in the Heterogeneous K-8 Classrooms	Mathematical language and reasoning are challenging for many learners. Participants are introduced to theory and practice on strategies that accommodate diverse students in K-8 mathematics classrooms.	Kindergarten - 2nd, 3rd - 5th, 6th - 8th
	Rosemarie	Starook	West Ottawa School District			
	Nijagara	Davidson	North Park Montessori			
B2	Jessica	Vander Ark	West Michigan Environmental Action Council	Going Zero Waste in Your School	Interested in taking the waste reduction journey with your students? We will share reducing, reusing, recycling, and composting lesson, projects, and real-world solutions to the landfill problem.	3rd-5th, 6th-8th
	Lauren	Westerman	Kent County Department of Public Works			
	Andrew	Light	West Michigan Environmental Action Council			
B3	Ebiri	Nkugba	STEM Consultants, Kent ISD	Incorporating STEM By Design KEYNOTE Session	How can we prepare our students to be STEM literate? STEM careers are projected to grow at nearly twice the rate of their non-STEM counterparts. Learn how to teach the Michigan Science Standards using STEM principles in collaboration with area business partners to prepare our students for their futures.	K-12
	Rick	Mushing				



Session C 11:00 - 12:00 PM						
Session Number	Presenter(s)		Organization	Presentation Title	Description	Grade Level
C1	Darcy	McMahon	Science, Mathematics and Technology Center at Central Michigan University	Phenomenal Science Units: A Comprehensive Science Curriculum for Grades K-5	Come discover this comprehensive science curriculum for K-5, written by teachers for teachers. Units are aligned to MSS and available for free. Adoption details available.	Kindergarten - 2nd, 3rd - 5th
	Matthew	Samocki				
	Jennel	Martin-Powell				
C2	Tamara	Smolek	Michigan Department of Education	Michigan Science Assessment - Learning from the Past & Preparing for the Future	This presentation will review the data (to date) from the 2017 science pilot test, provide annotated examples of item clusters from the 2017 pilot, and updates on the assessment timeline.	Kindergarten - 2nd, 3rd - 5th, 6th - 8th, 9th - 12th, College
C3	Peter	Riemersma	Grand Valley State University	Engaging the School and Community in Developing Outdoor STEM Activities	Learn how Allendale came together to create educational infrastructure that included gardens and bird feeders. Highlights from six years of AACFD include duck races, rotting logs, and zoo poop. Handouts.	K-2, 3rd -5th, 6th-8th, 9th-12, College
	Keith	Piccard	Allendale Public Schools			
C4	Luann	Keizer	Grand Rapids Community College	Very Virtual	Come try virtual reality and some of the applications of it in education.	9-12, College
C5	Bill	Dinkelmann	Van Andel Education Institute	Stop Creating Lesson Plans: Start Designing Learning Experiences	Explore K-12 lessons designed to create a classroom where curiosity, creativity, and critical thinking thrive...while also supporting MSS/NGSS implementation through the use of research-based instructional models for science and engineering.	K-2, 3-5, 6-8, 9-12
	Randy	Schregardus				

Session D 12:45 - 1:45 PM						
Session Number	Presenter(s)		Organization	Presentation Title	Description	Grade Level
D1	Amanda	Syers	Grand Valley State University	Bring Michigan Science Standards to Life Using Place-based Education	Use place-based educating to model Michigan Science Standard concepts to explore driving questions surrounding community endeavors and provide techniques for involving students in other environmental restoration efforts.	K-2nd, 3rd-5th, 6th-8th, 9th-12
	Kym	Pawelka				
D2	Larry	Fegel	Outdoor Discovery Center	Earth Science Connections	Participants will use Michigan materials to examine the connections between Earth's systems. The materials used will be given away. Participants will also receive handouts describing at least five examples.	6th-8th, 9th-12th
D3	Vicki	Isola	Hope College Biology Department	Incorporating STEM through Science Olympiad	See examples of how to apply Science Olympiad tasks to STEM and NGSS objectives. Sample lesson plans will be provided. Event overviews and suggestions for team formation will be provided.	6th-8th, 9th -12th
D4	Susan	Ipri Brown	Hope College	Authentic Data Experiences with Portable Air Quality Monitors	Students naturally enjoy the environment - let that drive their learning! Simple and compact air quality monitors allow middle/high school students to pose research questions and answer with authentic data.	6th - 8th, 9th - 12th
	Donald	Triezenberg	Retired Educator			
D5	Darcy	McMahon	Science, Mathematics and Technology Center at Central Michigan University	Three-Dimensional Science Performance Assessments	Come discover new resources for accessing students understanding of science across three dimensions of the new Michigan Science Standards using performance tasks in grades 3-12	3rd- 12th
	Matthew	Samocki				
	Jennel	Martin-Powell				



Session E 2:00 - 3:00 PM						
Session Number	Presenter(s)		Organization	Presentation Title	Description	Grade Level
E1	Christopher	Dobson	Grand Valley State University	Forest for the trees: 5 E lesson addresses NGSS	Detailed 5 E lessons on community structure and succession. Students collect and analyze data and explain their findings. Easily modified for upper elementary. Handouts will be provided.	6th - 8th
	Meleah	Bazen				
	Mara	McAree				
	Taylor	Pierson				
E2	Amanda	Syers	Grand Valley State University	Introduction to MEECS Online	MEECS (Michigan Environmental Education Curriculum Support) workshops have been offered to Michigan educators since 2006. MEECS now has online resources on PBS Learning Media to supplement the workshops.	3rd-5th, 6th-8th
E3	Sherry	Claflin	Stephen F. Wessling Observatory, Muskegon Community College, GVSU Annis Water Resources	Daytime Astronomy	Think you can only teach astronomy at night? Let me show you several engaging, thought provoking MiGSS classroom activities for teaching astronomy during the daytime!	6th-8th, 9th -12th
E4	Mike	Fine	Ottawa Area Intermediate School District	Using Technology for Formative Assessment and Student Engagement	Using appropriate technology as a means of Formative Assessment and using technology to engage students in their learning.	Kindergarten - 2nd, 3rd - 5th, 6th - 8th, 9th - 12th
E5	Anne	Thorp	Ottawa Area Intermediate School District	Connecting at the STEM	Connecting STEM teachers is a key to success. This session will cover strategies for creating a successful STEM cohort of teachers across districts, creating connections that lead to success for all.	Kindergarten - 2nd, 3rd - 5th, 6th - 8th, 9th - 12th, College
E6	Vicki	Isola	Hope College Biology Department	Incorporating STEM through Science Olympiad	See examples of how to apply Science Olympiad tasks to STEM and NGSS objectives. Sample lesson plans will be provided. Event overviews and suggestions for team formation will be provided.	6th-8th, 9th -12th

