

Michigan
Mathematics and
Science Centers Network

www.mimathandscience.org

2011 Directory 2012



Michigan Mathematics and Science Centers Overview

The Michigan Mathematics and Science Centers Network is a collaboration of 33 regional centers throughout the state created to elevate mathematics and science education for all students in Michigan. The Network provides direction for the centers, coordinates joint projects, and develops programs that support the successful delivery of high quality mathematics and science education. The centers provide community leadership, curriculum support, professional development of teachers, and support rigorous mathematics and science education in classrooms in local school districts, as well as in four accelerated high schools. Some centers also serve as a resource clearinghouse for educational materials and information, and work to foster community involvement in the areas of mathematics and science.

The Mathematics and Science Centers Network also administers and coordinates professional development of teachers through many offerings each year. The MMSCN's Professional Development Committee, which is made up of Math and Science Leadership Teams, works to find, scale up, and/or develop quality trainings that meet the needs of teachers across the state. The Network is crucial in assisting the Michigan Department of Education in the development and dissemination/training of the new curricular requirements for both mathematics and science. It also assists the state's high priority schools by providing professional development to help teachers increase their content knowledge and enrichment programs for students.

The Michigan Legislature voted to adopt the Common Core State Standards and the state is engaged in developing the Next Generation Science Standards. These standards will require students and teachers to engage in high demand activities and assessments to prepare them for careers and college. The Michigan Mathematics and Science Centers Network has the infrastructure in place to prepare our state's students and teachers to meet and exceed these new standards.



Allegan/Van Buren Mathematics and Science Center

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Director:

Amy Oliver

Biography:

Amy has been the director of the Allegan / Van Buren Mathematics and Science Center since its inception in 1993. She received her Bachelor's Degree in Biology, Secondary Professional Teaching Certification and Master's Degree in Science Education from Western Michigan University. In addition to experience and background in teaching Biology and science education, she has worked as an educational training consultant in the business and industry sector. She has been a member of the Michigan Math & Science Center Network since 1993 and is currently serving in several leadership capacities including the Executive Committee, and Chair of both the Visioning Committee and the Assessment Project.

Center Features:

The Center serves the Allegan Area Educational Service Agency (AAESA) and the Van Buren Intermediate School District (VBISD) which includes 19 school districts, 2 Technical Education Centers, 2 charter schools, 2 county-based special education programs, 9 non-public schools, and two ESAs/ISDs. Our focus has been on providing a balance of Science, Technology, Engineering and Mathematics (STEM) services and programs that are both Center and local district-based with an emphasis on professional development and leadership related to curriculum, instruction and assessment.

Points of Pride:

- Partnership between Allegan AESA and Van Buren ISD in which both organizations contribute equal amounts of general funds to support STEM education in its service area.
- Provide training and classroom support to districts using the Battle Creek Science Kit Curriculum. Fifteen of the nineteen districts the Center serves have adopted the curriculum which means nearly 80% of our districts have a viable, inquiry-based elementary science curriculum that aligns 100% to the Michigan GLCEs.
- Provide leadership and support to districts on the Common Core State Standards (CCSS) for mathematics by facilitating key teacher leader sessions, creating crosswalk documents comparing the current GLCEs and the Common Core Standards, and developing recommendation documents to guide locals as they transition to the CCSS.
- Participation in the two-year, statewide professional development program called Algebra for All. There were 30 participants in Year 1 and 22 participants in Year 2 from the Center's service area.
- Host the annual Eco Races which focuses on the scientific, design and team-building processes needed to move students toward a level of mathematical and scientific literacy. Sun Sprint features high school students designing, building and racing model solar powered cars and Trash Dash features middle school students designing, building and racing model battery powered cars made almost entirely from recycled materials.



AMA/IOSCO Mathematics and Science Center



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 Alpena, MI 49707
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Director:

Tracy D'Augustino

Biography:

Tracy has been the Math Science Coordinator at the AMAESD for the past three years. As part of that role she has been the AMA/Iosco Math Science Center Director and Program Coordinator at Sprinkler Lake Education Center. Tracy graduated from Mayville State University in North Dakota in 2002 with a B.S. in Biology and Secondary Education with Minors in Physics and Mathematics. She will graduate from Michigan State University with a Masters in Biological Sciences December of 2012. She returned to Michigan with their three children when her husband retired from the Air Force in 2003.

Center Features:

Sprinkler Lake Education Center is the flagship of the AMA/Iosco MS Center. It is located on 120 rolling acres in the heart of Huron National Forest in Alcona County in Northeastern Michigan. Utilizing its unique habitats and ecosystems, it serves as a destination for thousands of people annually since 1997. Teachers, students and community members benefit from the programs targeting math, science and the environment. Sprinkler Lake Education Center is naturally designed for learning and offers.

- An extension of our local classrooms
- Outdoor learning activities impossible in the school setting
- Family math/science nights
- Professional development
- Summer science camps
- Popular community science festivals: NatureFest and WinterFest
- Annual Jr. High Math/Science Conference
- State wide initiatives
- Northeast Michigan Great Lakes Stewardship Initiatives (NEMIGLSI)
- Math improvement projects



Battle Creek Area Mathematics and Science Center

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Director:

Connie Duncan

Biography:

Connie was a middle school science teacher prior to coming to the Center as a consultant in 1991 when the Center opened. She has been the Director of the Center since 1997.

She has been actively involved in Michigan Science Teachers Association and sits on several state and national committees. She is a consultant for the National Science Teachers Association as a program reviewer with the Science Program Improvement review program.

Center Features:

The Battle Creek Area Mathematics and Science Center (BCAMSC) serves Barry, Branch, and Calhoun counties. The BCAMSC includes a pull-out high school program for 340 students who attend the Center half time for all of their math, science and technology coursework. The Center also has a distribution center which serves over 100 districts throughout Michigan by supplying materials for science kits. The Center's consultants work with area schools to improve student achievement in math and science.

Work with High Priority Schools:

The BCAMSC staff work closely with high priority schools to improve scores. The Center has a 100% track record for significantly increasing scores in the schools in which they work. Although the number of schools in which Center staff work has greatly decreased due to decreased state funding, Center staff continue to do what they can to continue projects already in place. The Center has presented data from this project statewide as well as nationally.



Berrien County Mathematics and Science Center



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Director:

Kevin Clark

Biography:

Kevin has been the Director of the Berrien County Mathematics & Science Center since 2010. In addition, he serves as the Director of REMC 11 and Supervisor of Instructional Technology at Berrien RESA. Before coming to the Berrien RESA, Kevin taught middle school science and technology.

Center Features:

- Accelerated High School Program located on the campus of Andrews University.
- Programs for Berrien County students such as Science Olympiad and International Science and Engineering Fair (ISEF).

Work with High Priority Schools:

- While services are provided to all Berrien County schools, the Center strives to take advantage of opportunities geared toward high priority schools.



Capital Area Science and Mathematics Center

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Director:

Denise Brady

Biography:

Denise has been involved in mathematics and science education for over 20 years. She currently serves as the mathematics and science consultant for Shiawassee and Clinton Counties, as well as the Director of the Capital Area Science and Mathematics (CASM) Center. Denise’s experiences include teaching, coaching, administration and coordinating student programs. Denise has a Bachelors Degree with a major in Mathematics and minor in General Science as well as a Masters Degree in Educational Leadership.

Center Features:

The Capital Area Science and Mathematics Center (CASM) is a collaborative with five county agencies (Clinton County RESA, Eaton ISD, Ingham ISD, Ionia County ISD, Shiawassee RESD) and Lansing Community College (LCC). CASM provides services in science and mathematics education in central Michigan. The Center’s primary efforts are directed toward providing enriching student programs in science and mathematics, as well as leadership and coordination of teacher professional development. CASM’s programming and services include local and state grant initiatives as well as “tailor-made” professional development for local districts.

Work with High Priority Schools:

CASM assists high priority schools to increase student mathematics and science performance by improving teachers’ mathematics and science content knowledge. Recent projects have focused on best practice instructional strategies, implementing balanced assessment systems to inform learning and the use of technology to enhance learning.



Central Michigan Science, Mathematics and Technology Center

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 Phone Number: (989) 774-4387
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Director:

Janice Voege, Ph.D.

Biography:

Before becoming Director of the Central Michigan Science/Mathematics/Technology Center, Janis had a productive and happy career as a professor at CMU. A number of her undergraduate students became teachers and most of her graduate students were either teachers or administrators in K-12 schools. One of her on-going projects at CM SMTC is collaborating with faculty members in the Colleges of Science and Technology, and Education and Human Services to obtain funding for projects which include Professional Development components for K-12 teachers.

Janis first earned a Bachelor's Degree in Vocational Education at Southern Illinois University-Carbondale. Following appointments as field educator in both rural and urban settings through the University of Illinois, she completed a Master's Degree at SIU; was a professor at Adrian College (Adrian, Michigan); earned a Ph.D. at Michigan State University and joined the faculty at Central.

Center Features:

- Works collaboratively with the Gratiot-Isabella RESD and the Clare-Gladwin RESD to serve the students, teachers, and administrators in this four-county rural area.
- Provides crucial outreach services to 14 school districts, 17 private schools, three charter schools and one tribal school.
- Housed at Central Michigan University (CMU) since its establishment in 1985; the Center has also served the students and faculty of Central Michigan University's Colleges of Education and Human Services and Science and Technology.
- Provides Professional Development and training for teachers which supports local and statewide initiatives, including participation in Network state-wide initiatives.
- Directs Opportunities for Talent Development (OTD)—an accelerated Science program for middle school students taken on the campus of CMU.
- Manages Starlab—a portable planetarium transported to schools where a certified teacher presents grade level appropriate programs.
- Conducts Summer Science and Mathematics Camps for PK-8th graders.

Resource Clearinghouse:

- A resource clearinghouse for pre-service and in-service teachers that provides equipment and materials to enhance their lessons.
- NASA Educator Resource Center—As one of two NASA Educator Resource Centers in Michigan, we collaborate with the National Aeronautics and Space Administration to provide resources, professional development, and community programming.

Work with High Priority Schools:

- Work with administrators, teachers and students in high priority schools to increase student interest and capacity in STEM.



COOR Science and Mathematics Center

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Director:

Don Mick

Biography:

Education:

Bachelor of Science in Education, Central Michigan University, August, 1974

Master of Arts in Educational Administration, Central Michigan University, December, 1981.

Additional coursework in Educational Administration, approximately 45 graduate hours, from various universities.

Teaching Experience:

Morrice Area Schools, Morrice, MI, August, 1974 to June, 1976. Taught Biology, Conservation, Advanced Biology.

Alcona Community Schools, Lincoln, MI, August, 1976 to June, 1981. Taught Middle School Science, High School Chemistry, Physics and Introductory Physical Science.

Administrative Experience:

Alcona Community Schools, Lincoln, MI, July, 1981 to February, 1986. Assistant Principal/Athletic Director.

Alcona Community Schools, Lincoln, MI, February, 1986 to June, 1986, Interim High School Principal

Gerrish-Higgins School District, Roscommon, MI, July, 1986 to August, 1988. High School Principal.

Gerrish-Higgins School District, Roscommon, MI, September, 1988 to June, 2006, Superintendent of Schools.

COORISD, Roscommon, MI, October 2006 to present, Math/Science Consultant

Center Features:

COOR Mathematics and Science Center focuses upon outreach services to its member districts. While some districts are still implementing content expectations in science and mathematics and refining pacing guides, especially in the early and middle grades, most are concentrating committee efforts on developing and refining the assessment process for instruction. Teachers are actively working making sure that their curriculum materials adequately cover the spectrum of the content expectations, at the appropriate depth of knowledge. To assist in that effort, center personnel serve as facilitators, working directly with grade level groups of teachers in the local districts, and then with representatives of each district in center wide meetings, all aimed at delivering a consistent, quality curriculum to students. In mathematics, center personnel facilitate the development of center-wide end of course assessments and with implementation of the common core standards in mathematics.

In addition to facilitating the implementation of content expectations and assessment in the local districts, staff also deliver professional development in lesson design that incorporates inquiry based practices and supports writing within the content areas.

High School Mathematics instructors take advantage of opportunities for growth by participating in Algebra for All, Algebra II and Geometry E-maths sessions.

Work with High Priority Schools:

Math curriculum reform has become the highest need for our schools that have not received AYP. COOR Science and Mathematics Center has facilitated elementary and middle school mathematics curriculum reform. The focus for the next several years will be to help all high schools in the COOR ISD area achieve the high expectations of the high school reform movement. Of special concern is mathematics and science for all students, especially those at risk of not benefiting from new content and new application skills.



Detroit Mathematics and Science Centers



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Director:

Alycia Meriweather

Biography:

Alycia Meriweather has worked in Detroit Public Schools for the last 16 years, and is a life-long resident of the city of Detroit. Originally a middle school science classroom teacher, she became a lead teacher, a professional development facilitator, the Supervisor for Middle School Science for the district, and now serves as the Director for the Detroit Mathematics and Science Center as well as the Executive Director for the Office of Science for Detroit Public Schools.

Ms. Meriweather is also very involved in her Southwest Detroit community, teaches as an adjunct professor at Wayne State University, and is currently the board president of the non-profit arts organization, Living Arts. Alycia is a graduate of Detroit Public Schools, the University of Michigan (undergraduate), and Wayne State University (graduate).

Center Features:

The Detroit Center functions as a resource clearinghouse and provides support for student services in Mathematics and Science education. Teachers regularly call the center to borrow equipment and materials to enhance their lessons. The Center provides the access to equipment that would, in most cases, be otherwise unavailable to the schools. Additionally, a large portion of the Center's budget has been allocated to support activities and materials that directly benefit students through the form of mini grants awarded to teachers. Everything from counting bears to buses for field trips has been provided through the mini grant initiative. Finally, the Detroit Center provides school visits, classroom support, and coordination of city-wide Mathematics and Science efforts and initiatives.

Work with High Priority Schools:

The Detroit Center has chosen to have continued focus on high priority schools in two different ways: focused school assistance and student services.

Our focused school assistance included classroom visits, meeting with the principal, providing professional development, and discussing various intervention strategies, including demonstration lessons, as well as one-on-one consulting for specific teachers. These school visits also allow for distribution of materials and information as needed. We also make special contact with the high priority schools regarding materials that are available through the Resource Clearinghouse.

The Detroit Center provides multiple student services focused on high priority schools. Primarily, through our Resource Clearinghouse, we provide kits and materials aligned to the instructional sequence. We also have developed parent guides to assist parents at high priority schools with instruction at home. Probably the most significant way that the Detroit Center impacts high priority schools is through sponsoring and facilitating district-wide events and student competitions such as You Be the Chemist, Recycling, and the Science and Engineering Fair of Metro Detroit. Finally, preference was given to high priority schools for the awarding of the mini grants that were provided through the Detroit Center. Those mini grants were used to provide materials directly to teachers/classrooms, provide field trips, and provide supplies for outdoor classrooms.



EUP Mathematics and Science Center



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Director:

Valerie Masuga

Biography:

Valerie Masuga has been the Center Director for the past three years. She is a secondary mathematics teacher that came to the Center after teaching in Cedarville for 10 years. Her teaching career included teaching Middle School Mathematics and Language Arts and High School Mathematics at Cedarville Schools and also teaching college Calculus to high school students across the EUP region through Lake Superior State University. As Center Director, she provides professional development opportunities for area K-12 math and science teachers; coordinates regional math and science curriculum review teams; and works with area administrators on data analysis and programming.

Center Features:

The EUP Mathematics and Science Center is located in the EUP intermediate School District and represents 19 school districts on the easternmost end of the UP. The region covers 4,000 square miles and includes Lake Superior State University and Bay Mills Community College—both have been partners on numerous projects.

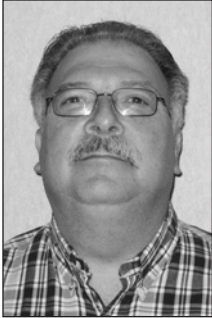
Work with High Priority Schools:

The EUP Mathematics and Science Center provides direct service to all districts, but focuses on schools that are struggling in math and science as indicated by MEAP and local assessment data. Once a district is determined to be high priority, Mathematics and Science Center staff work directly with that building's administrator on developing and delivering targeted professional development for teachers and programming for students. Professional development for these schools generally focuses on specific math and/or science strands that have been identified as problematic. Interventions include curriculum alignment, assessment and instruction activities, and instructional coaching. Inquiry-based approaches, integration of technology into the classroom, and infusion of manipulatives are often included in these activities.



Genesee Area Mathematics, Science and Technology Center

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 Flint, MI 48507
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Director:

Larry Casler

Biography:

Larry has been the director of GAMSC since 2001. Prior to coming to GAMSC, Larry was an Educational Specialist for Eaton ISD for five years and was a teacher and a principal before that, with most of the teaching time spent in the middle school math and science classroom. Mr. Casler also enjoys adjuncting for MSU, U of M flint, and EMU in science methods and assessment and evaluation. Mr. Casler is married to Carolyn (a first grade teacher in Montrose, Mi) and has a son , Matthew, 23 and a daughter, Nichole 13.

Center Features:

GAMSC serves 21 districts and 10 charter academies in Genesee county. The highlight for GAMSC programming is Ligon Outdoor Center —268 acres of pristine forest land located on the northeast corner of Genesee County. Last year, over 9,000 students, teachers, and administrators attended programs at Ligon. All of our professional development and student programming is designed to expand participants science content knowledge, address MDE standards and benchmarks, and offer resources not available in local districts/buildings.

Work with High Priority Schools:

GAMSC has been working diligently with our high priority schools to raise achievement in math and science. We have been working with about 30 middle school teachers in our lesson study project (MSP)—all of these teachers are from high-needs buildings—Flint, Flint Beecher, Westwood Heights, Mount Morris, and three of our charter academies. GAMSC has also recently been involved with Flint schools in working with elementary buildings that lack resources and/or teachers comfortable teaching science to insure that their students are receiving a foundation in science. We have data from the last two years that shows a trend of increasing achievement.



Grand Traverse Regional Mathematics, Science and Technology Center, TBAISD



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Director:

Tom Wessels

Biography:

Tom has been the Science Curriculum Consultant at TBAISD since 2000. He has served as the Director of the Grand Traverse Regional Mathematics Science and Technology Center (GTRMSTC) since 2003. He holds a BS in Science Education and an MS in Environmental Education from Michigan State University. He has worked extensively with the Michigan Merit Exam Item Development Team, and has taught education courses for Grand Valley State University. He spent 18 years as a high school science teacher, and really likes flyfishing.

Center Features:

The mission of the Grand Traverse Regional Mathematics Science and Technology Center (GTRMSTC) is to initiate, coordinate and integrate mathematics, science, and technological opportunities to ensure that all students have access to instruction based on research, best practice and state and national goals. Center staff function within the Traverse Bay Area Intermediate School District's Instructional Services Team. Team consultants provide services to sixteen public schools, three public schools academies and numerous non-public schools within Antrim, Benzie, Grand Traverse, Kalkaska and Leelanau Counties.

The Professional Learning Communities model is being utilized throughout the ISD as a model for professional development leading to increased student achievement based on data, a focus on results and best practices. Center highlights include a longstanding Physics teacher professional learning community focusing on the lesson study model and connections to and collaboration with Northwestern Michigan College, the Water Studies Institute, Inland Seas, and other area stewardship organizations.



Great Lakes Mathematics and Science Center

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Director:

Christy Cloud

Biography:

Christy has been the director of the Great Lakes Math & Science Center since 2010. She has a Bachelor’s Degree in Science and a Master Degree in Educational Administration from Central Michigan University. In addition to a background and experience in science education, she has experience as a math teachers as well as curriculum consultant. She has been an active member of MSTa, NSTA, MCTM, NCTM, ASCD Learning Forward (formerly MSCD) for the past several years. She also represented the Math & Science Centers and her ISD’s as a board member of Learning Forward.

Center Features:

Great Lakes Mathematics and Science Center works to enrich mathematics and science programming for students and educators in Charlevoix, Cheboygan, Emmet, Otsego, and Presque Isle Counties. This includes over 19,000 students, 1400 teachers, 25 public school district and 17 private/charter or schools for Exceptional Learners. The center began when the responsibility of mathematics and science programming of the previous SEE-North’s service area was turned over to the Great Lakes Mathematics and Science Center, in July 2008.

The Great Lakes Mathematics and Science Center engages in the following throughout the school year and summer months to provide services in professional development strengthening teaching practices, helping develop curricula that incorporate research, and transferring information regarding math and science education to local educators. Those services include:

- Developing professional development designed to help teachers improve content knowledge and differentiated instructional delivery techniques.
- Working with local districts to develop math and science initiatives to improve instruction based on student assessments.
- Using Michigan Educational Assessment Program (MEAP), Michigan Merit Exam (MME), and Adequate Yearly Progress (AYP) data analyses to target specific strategies to improve achievement (emphasis on elementary levels).

Work with High Priority Schools:

We are fortunate to have a very limited number of schools that are seriously underperforming and/or not making AYP in math and science. However, Great Lakes Mathematics and Science Center works to support underachieving schools in the region through professional development aimed at developing a greater knowledge of science and math. In addition, there were efforts made to increase the effective use of formative assessment. This work is focused on providing professional development in instructional strategies for teaching and building an understanding of inquiry-based instruction that is then extended to student work in the classroom.



Hillsdale-Lenawee-Monroe Mathematics and Science Center

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Director:

Pam Bunch

Biography:

Pam Bunch has served as Director of the Hillsdale Lenawee Monroe Math Science and Technology Center (HLM MST Center) since April 2005, and as the Coordinator of Stubnitz Environmental Education Center of the Lenawee Intermediate School District since 1995. She received her undergraduate degree in Elementary Education from Michigan State University, and her Master's degree in Environmental Education from Eastern Michigan University. She holds a K-8 teaching certificate with endorsements in Integrated Science, English Language Arts, and Social Science.

Center Features:

The Hillsdale Lenawee Monroe Mathematics and Science Center serves the tri-county region of 29 school districts and three intermediate school districts.

- Standards-based Professional Development and training for teachers, including participation in all Network state-wide initiatives
- HLM MSC Tri-County Science Fair, a competition of project-based learning
- Elementary Science Olympiad and Middle School/High School Science Olympiad

Work with High Priority Schools:

Hillsdale-Lenawee-Monroe Mathematics, Science and Technology Center student programs and professional development trainings are designed to target improved achievement in all students, including those in designated high priority schools.



Huron Mathematics and Science Center

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Directors:

Scott Whipple, Science (pictured top)

Co-Director: Jennifer Trusock, Mathematics (pictured bottom)



Biography:

Scott and Jenni serve as Co-Directors of the Huron Mathemaics and Science Center. Scott is the "Director of Record" for the 2011-2012 school year.

Scott has served the Center as Science Teacher Consultant for 17 years. Scott has a Master's degree in the Teaching of Natural Sciences, along with a B.S. in biology. Much of his recent wok with schools has been in the area of student services and community involvement.

Jenni has served the Center as Mathematics Teacher Consultant for 18 years. Jenni has a Master's degree in Curriculum and Teaching, along with a B.S. in mathematics. Much of her recent work with schools has been in the areas of curriculum development and data analysis.

Center Features:

Huron County is a rural area in the geographic "Thumb" of Michigan. Center staff offers Curriculum Implementation Academies to assist teachers in planning standards-based instruction. Examples of other professional development opportunities include MEECS, HS-MASS and Dynamic Classroom Assessment, in addition to the Student Achievement Model (SAM). SAM began with Mathematics in 2006 and is an on-going effort for continuous improvement in all areas of student achievement.

HMSC has collaborated with the Square One Education Network and other partners to participate in projects such as "Innovative Vehicle Design," where high school students design an innovative electric vehicle. Other projects include EPICS, in collaboration with both Square One and Purdue University, and the annual "Embracing Our Earth" festival. Center staff also sponsor Family Tours to help families access museums and real-life math/science attractions that may not be easy to reach from a remote rural area.

Work with High Priority Schools:

Due to a rural location, all HMSC schools meet the criteria for "high priority." Therefore, staff assists all local schools in identifying and addressing learning deficiencies. Particular emphasis is placed on collaborative efforts to leverage resources that the smaller districts are unable to access alone.



Jackson County Mathematics and Science Center

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Director:

Megan Schrauben

Biography :

Megan has been in education for 6 years prior to coming to the Jackson County Mathematics and Science Center as the Director. She taught high school physics and mathematics. For the past four years, she has been in an administrative role as a science/mathematics coordinator at the Jackson County Intermediate School District.

Center Features:

The Jackson County Mathematics and Science Center is part of the Jackson County Intermediate School District. The Center provides mathematics and science programs at the ISD and also manages facilities and programs at Camp McGregor, an 85-acre outdoor education camp on Crispell Lake available for use by school and community groups. The Mathematics and Science facilities at Camp McGregor include two classrooms/laboratories, a field studies trail, and an observatory with a world-class telescope. The classroom/laboratories are equipped with technology, lab equipment, and field equipment for use by teachers and students and are used for many learning activities such as DNA electrophoresis and the 5th Grade Groundwater Festival. The Field Studies Trail includes several stations designed to enhance student learning of outdoor science content. The Camp McGregor observatory is used by classroom teachers and their students, as well as by local community groups.

Work with High Priority Schools:

We are fortunate to have a very limited number of schools that are seriously underperforming and/or not making AYP in math and science. However, for those that have requested assistance, our work has focused on providing a variety of support, including curriculum gap analyses and alignment, and appropriate professional development for teachers and student programs that help generate excitement about math and science learning.



Kalamazoo Area Mathematics and Science Center



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Director:

Dr. Michael Tanoff

Biography:

Michael Tanoff has served as the Director of the Kalamazoo Area Mathematics and Science Center since 2011. Prior to joining KAMSC, he was an assistant professor of physics at Kalamazoo College, where he developed a concept and lab-based introductory physics program, participated in state and national conversations on physics education research, directed the 3-2 engineering program, co-advised student mathematics teams, and served as co-director for a National Science Foundation-sponsored program for attracting students from underrepresented groups to the sciences and mathematics. Dr. Tanoff's industrial experience included an engineering position in the process simulation and control area for the Exxon Corporation (now ExxonMobil), and a senior research managerial position for the Kellogg Company. He held an expatriate position in the Department of Physical Chemistry at Chalmers University in Gothenburg Sweden, and research scientist and lecturer positions at Yale University.

Dr. Tanoff holds a bachelor's degree in chemical engineering from Rutgers University and a Ph.D. in engineering and applied science from Yale University.

Center Features:

The Kalamazoo Area Mathematics and Science Center (KAMSC) serves Kalamazoo and St. Joseph counties. KAMSC includes a pull-out, half-day high school program for 300 students who attend the Center for their mathematics, science and technology coursework. Some highlights of the pull-out program are:

- Mentorships with industry, business, colleges, and universities
- Extensive research science program beginning in ninth grade
- Rigorous research science team participation beginning in eleventh grade
- Extensive offerings of math and science electives and AP courses

KAMSC, in collaboration with the Western Michigan University College of Engineering, hosts a Regional Intel Science, Mathematics, and Engineering Fair. Additional KAMSC programs include the Sizzlin' Summer Math and Science Program, offering opportunities for hundreds of K-8 students to engage in science, applied science, mathematics, and technology during the summer; and the GISMO (Girls Investigating Science and Math Opportunities) Conference for 6th and 7th grade girls, providing opportunities for middle school girls to interface with science and engineering professionals.



Lapeer County Mathematics and Science Center

Website Address: www.lcisd.k12.mi.us/GenEd/msc/ms.htm
 E-mail: jemmerling@geneseeisd.org
 Address: 690 N. Lake Pleasant Road
 Attica, MI 48412-9393
 Phone Number: (810) 667-6981
 Fax Number: (810) 724-6114



Director:

James Emmerling

Biography:

James holds a Master of Science in Geosciences from Mississippi State University and a Bachelor of Science with a major in Biology and a minor in General Science from University of Michigan - Flint, where he also earned his teaching credentials. Prior to serving as the director of the Lapeer County Mathematics and Science Center in 2009, he was a high school science teacher for 13 years in the Waterford School District.

Center Features:

The Lapeer County Math/Science Center serves five school districts, one charter school, and four parochial schools within the boundaries of Lapeer County. The mission of the Center is to provide leadership, programs, and services to support students and teachers as they work to master complex thinking skills, use problem-solving strategies, and understand the connections of science, technology, and mathematics to the real world. Several of the key programs of the center include:

- Leadership in mathematics and science education
- Professional development that supports local and statewide initiatives
- Consultant services including curriculum guidance and development
- Assessment support and data analysis for program improvement.
- Support for watershed monitoring and environmental service learning activities.
- Outdoor education experiences at Ligon Outdoor Center.
- Resource loan center which provides cost savings due to consolidation efforts.

Work with High Priority Schools:

The Lapeer County Math and Science Center works with all school buildings throughout the county. While none of the schools have been identified as high priority, aggressive work and interventions have been implemented to insure continuous and increased academic achievement for all students.



Livingston / Washtenaw Mathematics and Science Center

Website Address: www.lawmasc.net
 E-mail: ngarcia@wash.k12.mi.us
 Address: 1819 South Wagner Road
 PO Box 1406, Ann Arbor, MI 48106
 Phone Number: (734) 994-8100 x1261
 Fax Number: (734) 994-2203



Director:

Nicole Garcia

Biography:

Nicole began as the director of LAWMASC in July of 2007. Prior to becoming the center director Nicole was a mathematics teacher at Washtenaw Technical Middle College, an innovative high school serving Washtenaw County students. Nicole earned both her undergraduate degree in secondary education with a major in mathematics and a minor in chemistry and her Master's degree in Educational Studies in Mathematics from the University of Michigan.

Center Features:

The Livingston-Washtenaw Mathematics and Science Center – LAWMASC – has as its mission to support the advancement of mathematics and science education in Livingston and Washtenaw Counties. LAWMASC serves a diverse area of 1,295 square miles and includes 15 public school districts, as well as numerous public school academies and private schools throughout the fast growing Livingston and Washtenaw County area.

Work with High Priority Schools:

LAWMASC professional development work is designed to target improved achievement in all students, including those in designated high priority schools. The focus of the center's professional development work is on teacher collaboration, leadership and deep content and pedagogical knowledge. Work specific to high priority schools includes math coaching with teachers, creating professional learning communities, and enhancing curriculum.



Macomb County Mathematics, Science and Technology Center

Website Address: www.misd.net
 E-mail: mklein@misd.net
 Address: 44001 Garfield Road
 Clinton Township, MI 48038
 Phone Number: (586) 228-3466
 Fax Number: (586) 286-2809



Director:

Mike Klein

Biographies:

Mike was a chemistry teacher and the math and science coordinator for Warren Consolidated Schools before coming to the Center as a consultant in 2001. For the past six years Mike has served as director of the Center with He is the Past President of the Metropolitan Detroit Science Teachers Association and is currently the President of the Michigan Science Teachers Association.

Center Features:

The Macomb Mathematics and Science Center provides curriculum support and services to schools throughout Macomb County. These services include curriculum alignment, selection of instructional materials and professional development opportunities on a wide range of math and science topics. The Center includes financial and curriculum support for the Macomb Math, Science and Technology Center (MMSTC), a pull-out high school program for nearly 300 students who attend the Center half time for all of their math, science and technology coursework. The MMSTC is a collaborative center drawing students from districts throughout the county.

Work with High Priority Schools:

The Center's Mathematics consultants Amanda Hawkins, Lea McAllister and Marianne Srock have been very active working with our high priority schools. On the high school level they have trained the teachers in the implementation of the Dynamic Classroom Assessment program. Dynamic Classroom Assessment is sustained professional development that presents a research-based, proven process for assessing what math students know and can do. Teachers apply this knowledge to individualize instruction and to align instructional decisions. For K-8 teachers in high priority schools the training emphasis has been on video analysis of teacher practice as part of the Developing Mathematical Ideas trainings. These learning community type workshops are designed to enrich teachers' background knowledge and help teachers focus on the specifics of highly effective strategies for teaching and learning.



MAISD Regional Mathematics and Science Center

Website Address: www.muskegonisd.org/academicservices/mathscience/
 E-mail: dkrebs@muskegonisd.org
 Address: 1001 Wesley Avenue
 Muskegon, MI 49442
 Phone Number: (231) 767-7317
 Fax Number: (231) 773-0505



Director:

David Krebs

Biography:

Dave has served as a Consultant on the Instructional Services staff at the Muskegon Area Intermediate School District (MAISD) since August 2000, and as Director of the MAISD Regional Math/Science Center since October 2001. Prior to his work at the MAISD, Dave taught chemistry at Spring Lake High School and Grand Rapids Community College.

Center Features:

The MAISD Regional Mathematics and Science Center (MRMSC) provides support and services to K-12 schools of Muskegon County and Newaygo County. In addition to teacher professional development, the MRMSC provides on site curriculum and instructional support, data analysis, and school improvement coaching. The MRMSC also conducts the following regional and statewide student enrichment programs.

- West Michigan Science Challenge – Regional Science Fair
- Michigan Aerospace Challenge – Statewide model rocketry program with elementary and middle/high school High divisions.
- Middle School Amusement Park Physics Day – Statewide program held at Michigan’s Adventure Amusement Park.

Work with High Priority Schools:

Muskegon Area Middle School Mathematics Improvement Project, M3IP

The MRMSC is currently in the second year of an intensive, two-year mathematics professional development project for grades 5-8 mathematics teachers. M3IP is funded by the NCLB-Title IIB Math/Science Partnership Competitive Grant Program. Our M3IP partners include three Muskegon County high priority schools, Western Michigan University, and Muskegon Community College.

This two-year-old project was completed in July. Continuation funding is pending.

The MAISD School and Student Progress Initiative

The MRMSC participates with the MAISD Instructional Services, Special Education, and Technology Departments to provide targeted assistance to the high priority schools in Muskegon County. Our primary responsibilities include serving as data analysis and school improvement coaches to school principals and their school improvement team leaders.



Mason-Lake Oceana Mathematics and Science Center

Website Address: www.mlisd.k12.mi.us
 E-mail: ksurd@mcoisd.org
 Address: 2130 West US 10
 Ludington, MI 49431
 Phone Number: (231) 843-5959
 Fax Number: (231) 757-4208



Director:

Kathy Surd

Biography:

Kathy was a middle school /high school science teacher for 1 year and a high school mathematics teacher for 12 years. Kathy has a Bachelor of Science Degree, a Masters Degree in Curriculum and Instruction, and an Educational Specialist Degree in Curriculum, Instruction and Educational Policy with an emphasis in mathematics education. All of her degrees were earned from Michigan State University. She is currently splitting her time between her director role at the Mason-Lake Oceana Mathematics and Science Center and her role as a CTE coordinator at Mason-Lake Tech Prep.

Center Features:

The Mason-Lake Oceana Mathematics and Science Centers serves the 9 public school districts and 4 private schools in Mason, Lake, and Oceana Counties. The Center continually updates and distributes science kits for grades K-6 science instruction. While the units vary in focus (physical, life, or earth science) they are linked with grade level content expectations in science. Through a long-standing collaboration with the community, we host the annual local junior high MathCounts competition. Local engineers write, give, and score the assessments for this competition. We also run an annual regional You Be The Chemist Competition in collaboration with DOW. We have created common mathematics assessments for grades K – 8 that our schools use annually. We work collaboratively with West Shore Community College to provide a STEM-focused Early College for students in Mason, Lake, Oceana, and Manistee Counties. We run mathematics and science summer camps for middle school students annually. We also assist schools in becoming Michigan Green School certified.

A major focus of our work with local districts is curriculum revision. We often include contracted content area specialists in that work. Mathematics is currently the focus; all districts have worked on alignment with GLCEs and HSCEc. Professional development options are planned to match the needs identified by districts.

Work with High Priority Schools:

We provide curriculum support, professional development, student services, and resources to our high-needs districts. We've invested time in helping these districts make data-driven decisions.



Manistee, Wexford-Missaukee Regional Math/Science Center

Website Address: www.mscenters.org/centers/index.html
 E-mail: jredman@wmisd.org
 Address: 9905 E. 13th Street
 Cadillac, MI 49601
 Phone Number: (231) 876-2265
 Fax Number: (231) 876-4801

Directors:



Jodi Redman, Math/Science Instructional Consultant, Wexford-Missaukee ISD

Areas of Expertise: Math and Science content, curriculum development, curriculum planning, data analysis and school improvement processes

Biography:

Jodi has served as an instructional consultant for the General Education Department at Wexford-Missaukee Intermediate School District and as a math and science consultant for the Center since August 2006. Prior to this work she was a 7th and 8th grade mathematics teacher. Jodi has a Bachelor of Science Degree in Mathematics from Central Michigan University and a Masters Degree in Educational Leadership from Grand Valley State University.

Center Features:

The Manistee, Wexford and Missaukee Regional Mathematics and Science Center services 10 public schools, 1 charter and 4 private schools in Manistee, Wexford and Missaukee counties. Our center focuses on student services and professional development opportunities for mathematics and science educators. Our student services consist of the following activities: LEGO Expo and Challenge, Math Makes a Difference, Science Olympiad and Math Counts. The major focus of our work with educators and schools districts is on best practices in curriculum, assessment and instruction. We conduct math and science curriculum review for all of our local districts. The curriculum review process contains the following components: data analysis, resources alignment, gap analysis, pacing guides, units of study and student friendly language. Our center also provides additional professional development based on needs from our regional data.

Work with High Priority Schools:

We have one High Priority School within the Mathematics/Science Center. We do provide data analysis charts for our local districts in both Mathematics and Science. We help schools develop action plans based on data. We also provide identified professional development.



Mecosta-Osceola Mathematics, Science and Technology Center

Website Address:.....www.moisd.org/careertech/programs/mstc
 E-mail:jharrison@moisd.org
 Address:Mathematics/Science/Technology Center
 15830 190th Avenue
 Big Rapids MI 49307
 Phone Number: (231) 592-9608
 Fax Number: (231) 796-0262



Director:

Dr. Jennifer L. Harrison, MSTC Director and CTE Director

Areas of expertise: Curriculum and Instruction, Science and Engineering, School Administration Business Management

Biography:

Jennifer earned her B.S. at Central Michigan University and has an MBA with a concentration in Computer Information Systems. She earned her Ph.D. in Educational Leadership from Western Michigan University. She has worked in both secondary and post-secondary environments as a teacher and as an administrator. Presently, she enjoys advocating for education in ways that bring meaningful experiences that can have measured results.

Center Features:

We define great service as our passion for working in partnership with our local districts and providing personalized, value-added services that support local schools in their effort to maximize student learning. The Mecosta-Osceola Mathematics, Science, and Technology Center provides a variety of outreach activities to our K-12 students as well as in-depth professional development. Learners at all levels are encouraged to collaborate and leverage resources to continue to foster interest in areas of STEM education.



Northwoods Mathematics, Science and Technology Center

Website Address: <http://ge.dsisd.net/NMSC/nmstcpage/dsisd.htm>
 E-mail: vbugni@dsisd.k12.mi.us
 Address: Delta-Schoolcraft ISD
 2525 Third Avenue South
 Escanaba, MI 49829
 Phone Number: (906) 786-9300 x 110
 Fax Number: (906) 786-9318



Director:

Vic Bugni

Biography:

Vic is a secondary mathematics and science teacher that came to the Center in 2011 after teaching mathematics and science for Traverse City Area Public Schools. Before that, Vic was a teacher for Arenac Eastern School District. As a teacher leader, Vic has worked extensively with teacher development, data analysis, and district consulting for mathematics and science courses.

Center Features:

The NMSTC serves 7 public school districts, one public school academy and two private schools in two counties in the Upper Peninsula. Our partnership with the Clear Lake Education Center allows us to offer residential educational outdoor experiences to over 1,700 Upper Peninsula students annually. Each year we coordinate two days of professional development for 100% of all mathematics and science educators in our service area. We partner with a cadre of mathematics, science and technology teacher leaders who are key to the inquiry-based content professional development offered by the Center.

Work with High Priority Schools:

We have no high priority schools within the Center service area but work to improve all schools through our services. All schools are involved in data analysis and goal setting to raise student achievement and data packets for all school buildings are provided by the Center for this work. We work with local educators to insure all teachers are highly qualified through workshops, consultations and program offerings providing annual documentation reports to schools and certificates to teachers of their professional development and curriculum development participation.



Regional Math and Science Center (GVSU)

Website Address:..... www.gvsu.edu/rmsc/
 E-mail: meyersk@gvsu.edu
 Address: C-1-120 Mackinac Hall
 Grand Valley State University
 Allendale MI 49401
 Phone Number: (616) 331-2267
 Fax Number: (616) 331-3412



Director:

Karen Meyers

Biography:

Karen Meyers was appointed Director of the Regional Math and Science Center at GVSU in June 2008. Coming from a teaching background in middle school science and high school mathematics, she joined the RMSC staff in the fall of 1993. Since that time she has served both as a Program Coordinator and Assistant Director for the Center.

Ms. Meyers enjoys the work that she has been able to do in teacher professional development, especially in the areas of teacher leadership and inquiry-based teaching and learning through several Title II, Part (A) Grants and an MSP grant. During her time at the Center, she has also received a number of grants through the Michigan Space Grant Consortium to support community outreach through Super Science Saturdays on a variety of themes including World Year of Physics, International Polar Year, and the International Year of Chemistry.

Ms. Meyers received her BS in Mathematics / Secondary Education and MA in Curriculum and Teaching from Michigan State University. In addition, she has completed extensive graduate work in general science and is a certified GLOBE trainer.

Center Features:

The Regional Math and Science Center provides inquiry-based professional development grounded in mathematics and science content taught primarily by the science and mathematics faculty in the College of Liberal Arts and Sciences. We have regionally sponsored intensive, two-year teacher leadership programs in mathematics and science supported by grants. Through the Michigan Mathematics and Science Teacher Leadership Collaborative (MMSTLC), a federally supported statewide Math Science Partnership Grant program, this training designed to develop teacher leadership in mathematics and science teaching and learning was delivered statewide. In addition, the Center offers various science and mathematics content workshop series, and participates in statewide professional learning programs developed by the MMSCN.

The RMSC hosts several student programs such as Michigan Science Olympiad; sHaPe (summer Health and Professions exploration) camp; and Super Science Saturdays. We are especially pleased with the human and financial resources that are contributed by organizations and science professionals in the community.

Work with High Priority Schools:

The Regional Math and Science Center is currently working with high priority schools through Network-wide programs such as Algebra for All, High School Math and Science Student Success I-IV, and the MSU Measurement Project.. The Center also services both urban and rural schools in its three-county region (Kent, Montcalm, and Ottawa Counties).



Saginaw Valley State University (SVSU) Regional Mathematics and Science Center

Website Address: www.svsu.edu/mathsci-center/
 E-mail: mathsci-center@svsu.edu
 Address: 7400 Bay Road
 University Center MI 48710
 Phone Number: (989) 964-4114
 Fax Number: (989) 790-1614



Director:

Tamara Barrientos

Biography:

Tamara Barrientos has served as director since October 2010.

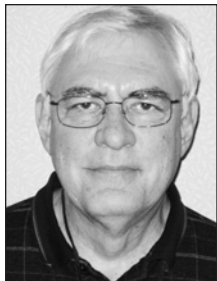
Center Features:

- Summer Camps in Mathematics and Science for students in grades 2 through 8.
- Teacher Specialist program sabbatical leave for teachers to serve at the center.
- Masters of Natural Science Teaching Degree Program with over 80 graduates.
- Enrichment experiences for undergraduate students in science and mathematics content classes.
- Partnerships with High Priority Schools throughout our science area for Professional Development in Mathematics and Science for teachers and enrichments for students.
- Science and Mathematics nights with parents and students.



Sanilac County Science and Mathematics Center (SCSMC)

Website Address:www.sanilac.k12.mi.us
 E-mail:nmiu@sanilac.k12.mi.us
 Address:175 East Aitken Road
 Peck, MI 48466
 Phone Number:(810) 648-4700 x215
 Fax Number:(810) 648-4834



Director:

Nick Miu

Biography:

Nick has been Director of General Education Services at Sanilac Intermediate School District and the Sanilac County Science and Mathematics Center since 2009. Previously, he taught at the high school level various life science classes for about twelve years. Following this he served in the role of being a principal for 20 years. Nick received a Bachelor's Degree in Life Sciences from Ohio State University and completed his Master's degree from Central Michigan University in the area of Natural History. He also holds a Music Education Degree from Taylor University, a Sports Medicine Degree from Butler University, and a Masters in School Administration from Central Michigan University.

Center Features:

SCSMC delivers programs and services in the areas of leadership, professional development, curriculum support, student services and community support, including:

- K-7 kit-based hands-on science curriculum, ABC in Science, provides resources to every school in the county using the Battle Creek Science Kit program.
- Teacher Leader provides professional development for mathematics and science educators from each building in the county.
- Community involvement in mathematics and science education activities, involves the use of the E.A.R.T.H. Center.
- Leadership in math and science education with county curriculum leaders and principals. Assistance to district leaders with analysis and interpretation of data to support their school improvement process.
- Curriculum development and assessment support and guidance, including promoting the use of technology to enhance instruction. Assistance to districts with identification of instructional materials and resources that align to the Common Core State Standards.
- 4th Grade Engineering Day, 2nd Grade Outdoor Classroom Experiences, various summer camps including Robo-Lab, CIS Forensic Camp, and Summer Science Camp are examples of student based programming.

Work with High Priority Schools:

All of the above services are provided to all schools in Sanilac County and the Center works closely with local district staff to focus additional support and resources for those identified as needing more individualized attention.



St. Clair RESA Mathematics and Science Center



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PO Box 1500
Marysville, MI 48040
Phone Number: (810) 455-4241
Fax Number: (810) 364-7474

Director:

James Licht

Biography:

James has served as the director of the St. Clair RESA Mathematics and Science Center since 2010. He joined St. Clair RESA in 2006 as a Curriculum Consultant for St. Clair Technical Education Center and as a Secondary Math Consultant for St. Clair RESA. Prior to that, he taught Middle School and High School Mathematics for Sandusky Community Schools.

James holds a MA in Mathematics Education from Eastern Michigan University and a BA in Operations and Materials Management from Michigan State University. He earned his teaching credentials from Saginaw Valley State University. He spent ten years managing a successful business before entering the teaching profession.

James has served as Region 9 Director and Treasurer of the Michigan Council of Teachers of Mathematics and on various state committees. He is one of the instructors of the Middle School Academic Academy and has led various professional development initiatives at St. Clair RESA including Algebra for All.

Center Features:

The St. Clair County RESA Mathematics and Science Center provides and supports the following services:

- Leadership in math and science education with county curriculum leaders and principals. Assistance to district leaders with analysis and interpretation of data to support their school improvement process.
- Quality professional development that supports local and statewide initiatives, including our annual 21st Century Learning Symposium.
- Curriculum development and assessment support and guidance, including promoting the use of technology and 21st Century skills to enhance instruction. Assistance to districts with identification of instructional materials and resources that align to the Common Core State Standards.
- Services to St. Clair County students such as the Middle School Academic Academy, a program that challenges gifted middle school student with STEM curriculum.
- Community engagement with programs such as the KnowHow2Go's Career and College Readiness initiative.

Work with High Priority Schools:

All of the above services are provided to all schools in St. Clair County and the Center works closely with local district staff to focus additional support and resources for those identified as needing more individualized attention.



The Glenn T. Seaborg Center for Teaching and Learning Science and Mathematics—Northern Michigan University



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 E-mail:dhomeier@nmu.edu
 Address: 1401 Presque Isle
 Marquette, MI 49855
 Phone Number: (906) 227-2002
 Fax Number: (906) 227-2013

Director:

Debra Homeier

Biography:

Debra Homeier began working as the director for the Glenn T. Seaborg Mathematics and Science Center in March 2008. She served as the Northwoods Mathematics, Science and Technology Center director (NMSTC), in Escanaba, from 1991 to February 2007.

She was previously an educator for Manistique Area Schools and Escanaba Area Schools where she taught mathematics, physics, science and computers in high school and mathematics in the middle school. Debra has served in various programs and committees, such as Michigan Operation Physics, the National Research Center for Career and Technical Education Math-in-CTE Study and as past president of the Michigan Mathematics and Science Center Network.

Center Features:

The center’s mission embodies the spirit of Glenn T. Seaborg—that is the continued pursuit for improvements in teaching and learning to benefit all members of society. The center provides professional development and student activities that link the K-12 education community with faculty and students from the education and science departments.

Student Programs:

- College for Kids: During the school year, the program is conducted by NMU’s education students under the supervision of center staff. In the summer, College for Kids features weeklong activities. Total College for Kids attendance is approximately 800 students annually.
- After School Lego® Robotics: Offered on-site at elementary and middle schools.
- Upper Peninsula Region I Science Olympiad Tournament: Conducted yearly for approximately 300 students from throughout the U.P.
- FIRST Lego® League Competition: Sponsored at the Seaborg Center for other Lego School teams across the Upper Peninsula.

Regional Professional Development:

- Fall Educators Conference: A bi-annual joint conference with the Seaborg Center, Marquette-Alger Regional Education Service Agency (MARESA) and other organizations. 600 to 1,000 teachers attend.
- Mathematics and Science Learning Team Workshops are provided three times a year in partnership with MARESA and local LEAs. Science and Mathematics professional development provides teachers best practice instructional strategies to improve mathematics and science in K-12 classrooms.
- Environmental Education: We cooperate with regional environmental agencies, such as the Michigan Department of Natural Resources, Pictured Rocks National Lakeshore, the Central Lake Superior Watershed Partnership, and many others. Efforts include the 2007 Lake Superior Youth Symposium, as well as on-going professional development, student services and community programming.

Resource Clearinghouse:

- NASA Educator Resource Center: As one of two NASA Educator Resource Centers in Michigan, we collaborate with the National Aeronautics and Space Agency to provide resources, professional development, and community programming throughout the Upper Peninsula.



Wayne RESA Mathematics and Science Center

Website Address: www.resa.net/msonline/
E-mail: pizzol@resa.net
Address: 33500 Van Born Road
Wayne, MI 48198
Phone Number: (734) 334-1375
Fax Number: (734) 334-1411



Director:

Libby Pizzo

Biography:

Libby is the current Treasurer of the Michigan Mathematics and Science Centers and is the current Director and Mathematics Consultant at the Wayne Regional Educational Service Agency's Mathematics and Science Center. Previously, she was an educator with Detroit Public Schools where she taught mathematics, science and social studies in grades 3 through 8.

In her current role, she is responsible for organizing, planning and conducting professional development opportunities for teachers in Wayne County related to mathematics curriculum, instruction and assessment. She is also an adjunct faculty member at Wayne State University where she teaches mathematics methods courses to pre-service teachers.

Center Features:

The Center houses the State Coordinator for Building a Presence for Science—This national network connects teachers throughout the State of Michigan, both in communication and leadership. The mission of Building a Presence for Science is to end the isolation of classroom science teachers and to provide them with professional development opportunities and science teaching resources.

GLOBE National Training Center and U.S. Partner—Global Learning and Observations to Benefit the Environment (GLOBE) is a hands-on international environmental science and education program. At the Center, elementary and secondary teachers can be certified by GLOBE in the GLOBE protocols and data entry.

StarLab Training Site and Provider—The Center trains teachers in the use of StarLab, a portable planetarium, and provides trained teachers free use of the StarLab for them and their students. Thousands of students use the two Wayne County Mathematics and Science Center StarLabs.

The Center facilitates statewide projects such as Algebra for All and Project PRIME (Promoting Reform in Mathematics Education).

Work with High Priority Schools:

- Mathematics Institutes offered to elementary and middle school teachers with coaching support and after school monthly grade-level meetings.
- Extensive professional development in mathematics grades K-1, 2-3, 4-5, and 6-8 for Title I schools.



Western Upper Peninsula Center for Science, Mathematics and Environmental Education



Website Address: <http://wupcenter.mtu.edu>
<http://lakesuperiorstewardship.org>
 E-mail: shawn@copperisd.org
 Address: 809 Hecla Street
 Hancock, MI 49930
 Phone Number: (906) 482-0331
 Fax Number: (906) 482-1931

Director:

Shawn Oppliger

Biography:

Shawn Oppliger has served as the director of the Western UP Center for Science, Mathematics and Environmental Education since 1998. Prior to serving as Director, she taught secondary mathematics and science for 13 years in schools districts located in Michigan and Wisconsin. Shawn has Michigan Teacher Certification with teaching majors in biology and mathematics and teaching minor in chemistry. She also received a Master of Science in Biology from Michigan Technological University (MTU) in 1993. She has recognized in 2005 by the MTU Academy of Educators for outstanding service to the Education Profession.

Center Features:

The Western UP Center is a member of Michigan Network of Mathematics and Science Centers and services schools in Houghton, Baraga, Keweenaw, Gogebic and Ontonagon counties. The Center was formed through a partnership between Michigan Technological University (MTU) and the Copper Country and Gogebic-Ontonagon Intermediate School District. There are two offices, one located at the Copper Country ISD and another at MTU.

The Western UP Center offers quality student and community programming to all school districts in their service area. Many programs are delivered at individual school sites to allow students easy access to the programs. Student programs engage students in higher order thinking, provide real world applications and encourage environmental stewardship. The programs offered are family science, engineering and math nights, ecology field trips, Western UP Science Fair and Science Festival and TiViTz Tournament. The Lake Superior Stewardship Initiative (LSSI) brings together students, teachers, parents and community organizations to plan and conduct environmental stewardship projects that address needs in local communities. LSSI is one of the eight regional hubs of the Great Lakes Stewardship Initiative.

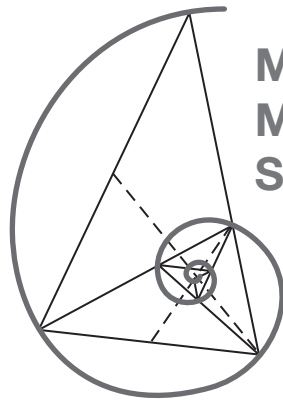
The Western UP Center provides high quality teacher institutes and workshops that focus on improving the teaching and learning of mathematics and science and build professional learning communities. Participants can receive graduate credit from MTU or SB-CEUs.

The Center also provides a resource clearinghouse of standards-based science and mathematics curricula, activity kits and equipment that teachers may check out. The materials are delivered to schools through the Regional Educational Media Center (REMC1).

Staff at the Western UP Center created the Ecosystem, Water Quality and Energy and Resources units for the statewide Michigan Environmental Education Curriculum Support sponsored by Department of Environmental Quality.

The Western UP Center programs are funded with grants from the Michigan Department of Education, Wege Foundation, Great Lakes Stewardship Initiative, Math and Science Partnership Grant Program, National Science Foundation, Michigan Space Grant Consortium, U.S. Forest Service, and Department of Natural Resources.

The Western UP Center has received awards from Michigan Association of School Boards, Copper Country School Board Association, Michigan Education Association, Michigan Technological University and the Lake Superior Bi-national Forum for delivery of exemplary student, teacher and community programs.



**Michigan
Mathematics and
Science Centers Network**
www.mimathandscience.org