

2019 CATF Year-End Report



Membership and Organizational Summary

- Emily Leach is elected CATF chair January 17, 2019.
 - Bob Kulischeck assumed CATF committee role as immediate past CATF chair.
 - Emily Leach transitions from SWP representative to Marquette County representative on October 1st.
- Martha Gerig selected to join CATF by Membership Committee.
- Organizational chart adopted as a “working document.”
- Mission statement adopted.
- 2019 Work plan adopted.
- Logo designed and adopted.
- Established Membership Committee.
- Meeting presentations implemented to encourage external partner collaboration.
- 2019 CATF members:
 - Bob Kulischeck, Brad Neumann, Char Spruce, Carl Lindquist, Dave Stensaas, Emily Leach, Gail Anthony, Greg Seppanen, Jerry Messana, Jes Thompson, Karen Alholm, Lauren Luce, Martha Gerig, Scott Erbis, Teresa Schwalbach, Tom Tourville, Tyler Penrod
- 2019 Steering Committee members:
 - Bob Kulischeck, Emily Leach, Gail Anthony, Greg Seppanen, Jes Thompson, Scott Erbis
- 2019 Membership Committee members:
 - Emily Leach
 - Brad Neumann
 - Lauren Luce
 - Gail Anthony

Outreach Summary

- AAAS Publication- [As the Great Lakes Warm, Marquette Plans for a Healthier Future](#)
- Bridge Magazine Article- [Marquette girds for climate change in Michigan's Upper Peninsula](#)
- MICHAP Climate and Health Guidebooks: Volume [1](#), [2](#) and [3](#)
- Two local climate change effort “open house” events contributed to at PWPL.
- Outreach table at the Forest Roberts Theater during [“What We Leave Behind”](#) performance.

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Project Summaries

- *City of Marquette Land Development Code Update*
 - The city of Marquette adopted a new Land Development Code in February of 2019, with many environmental updates geared towards sustainable and resilient planning.
- *Clean Energy Initiative*
 - The February 2019 clean energy stakeholder dinner was funded by the Mott Foundation. Discussion will be continued among the 58 attendees of the first dinner. Organizations involved in the planning and implementation of the dinner include the Community Foundation of Marquette County, Marquette Board of Light and Power, Superior Watershed Partnership, and Michigan Energy Options. A follow-up event to present outcomes from the 3 demonstration sites is being planned for Spring 2020.
- *Community Environmental Monitoring Program (CEMP)*
 - The Community Environmental Monitoring Program (CEMP) of the Eagle Mine began in 2012 and is implemented by the Superior Watershed Partnership in cooperation with the Keweenaw Bay Indian Community (KBIC) and the Community Foundation of Marquette County. The CEMP is designed to build a comprehensive and accurate picture of any environmental impacts that may be a result of Eagle Mine's operations at the mine site, the Humboldt Mill, and along the designated transportation route. In 2019, the CEMP program was tentatively extended until 2025 to continue monitoring quality of air, water, plant life, and animal life and KBIC was officially added as a partner on the project.
- *NMU EcoReps*
 - Dr. Jessica Thompson began advising EcoReps in 2019 as they continue to be a student sustainability peer-to-peer education program designed to give students the resources and knowledge to solve environmental, economic and social sustainability issues. EcoReps offered on and off-campus programming including Zero Waste events, Mend-It Mondays, monthly Clothing Swaps, Unplug Week, and much more in 2019.
- *Great Lakes One Water (GLOW)*
 - GLOW is a regional project focused on 27 Great Lakes coastal communities. The Marquette team is in the planning process to install four residential and two business rain gardens. The Community Foundation of Marquette County is leading the initiative.
- *Marquette Area Climate and Health Adaptation Project (MACHAP)*
 - The Marquette Area Climate & Health Adaptation Project (MACHAP) is a pilot program to build adaptive capacity at the local level by integrating public health considerations

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into existing community and climate adaptation planning. At a September 2019 workshop, 17 stakeholders representing 10 Marquette County jurisdictions met to discuss the 2020 implementation of Marquette County's climate and health adaptation priorities including:

- i. Increase public awareness and education about ticks
 - ii. Increase surveillance and data collection for ticks
 - iii. Engage in community energy planning with the City of Ishpeming as part of their Master Plan update
 - iv. Provide technical assistance to Negaunee and Ishpeming to develop pedestrian/bike plans
 - v. Inventory and map infrastructure most prone to flooding
 - vi. Create a Regional Water Coalition.
- Two Marquette County municipalities have been selected to collectively receive \$60,000 in funding as part of the Marquette Area Climate & Health Adaptation Action, or MACH A2, integrating planning and design elements within a climate and health adaptation framework.
 - i. Marquette Township- project seeks to reimagine the U.S. Hwy 41/M-28 Corridor.
 - ii. City of Negaunee- project seeks to reimagine the Teal Lake shoreline.
 - *Marquette County 2040*
 - County Planning staff has made strides with the County Master Plan update. The community survey closed on January 1st, 2020 and received over 3,000 responses. Staff met with all 22 local units of government in the county and is conducting focus interviews.
 - *Marquette County Health Department NACCHO: Public Health Response to Climate Change Related Flooding*
 - Public health response for planning disasters document was created.
 - Developed policy outlining specific public health response to climate change induced flooding.
 - Developed a GIS mapping tool to be used in targeting response during a flood event.
 - *National Science Foundation (NSF): Coastlines and People Workshop Series*
 - Dr. Jessica Thompson (PI), Dr. Sarah Mittlefehldt (Co-PI), and Dr. Scott Jordan (Co-PI) kicked off a three part workshop series in December 2019. The first workshop brought together over 50 representatives from state, county and city agencies, local industry and developers, NGOs and non-profit partners with an interest in understanding coastal

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resilience and sustainability planning. The workshop integrated expert presentations and interactive design thinking and systems mapping activities. The purpose of the workshop series is to cultivate partnerships between stakeholders and generate a shared vision for sustainable coastal development along Lake Superior's south shore.

- *Northern Climate Network*
 - NCN supported and attended the Global Climate Strike on September 20, 2019 on the campus of NMU. NMU President Fritz Erickson and ASNMU President Cody Mayer met protesters to answer questions and speak on their initiatives to make NMU a more sustainable campus.
 - NCN hosted three Climate@Noon seminars during the fall semester of 2019. Seminars included “How to Lobby for Climate Action” by Kristen Carlson from Marquette Citizens’ Climate Lobby, “Mining for Green Energy” by David Nelson from the City of Negaunee, and “Great Lakes One Water” by Gail Anthony from CFMC and Brad Neumann from MSUE.
- *“What We Leave Behind: Addressing Climate Change Through Dance”*
 - A NMU collaborative lecture, dance, multimedia, and live music performance with the new dance company “co/lab collective”, the OM music group, and Dr. Jessica Thompson. The purpose of the production is to change the conversation surrounding climate change by examining and relating to the people and places we love.
- *Superior Watershed Partnership*
 - SWP celebrated their 20th Anniversary in November. The evening’s honored speaker, Dr. David Suzuki, gave a speech encouraging continued efforts to make the Great Lakes more resilient to climate change. Bill McKibben welcomed guests via video and praised SWP’s low income solar program. The event highlighted accomplishments from the past 20 years to encourage future momentum.
 - The 2019 Great Lakes Conservation Corps (GLCC) consisted of 6 crews and employed 22 seasonal staff for the summer field season. Some of the 2019 measurable deliverables include 4,656 trees planted, 3,599 native plugs planted, and 35 buckets of beach grass transplanted.
 - SWP is growing both its Energy Conservation Corps (ECC) and low income solar program. The ECC will be gaining an additional crew for 2020 while low income solar installations or credits will increase to 10 UP households in 2020. The ECC completed a 20-panel, rooftop solar installation at the Blackrocks Brewery production facility. The

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SWP received a Community Energy Management award through EGLE Energy Services with Blackrocks Brewery providing local match.

- SWP received a \$2.5 million grant from the National Fish and Wildlife Foundation-National Coastal Resilience Fund to relocate a section of Lakeshore Boulevard and make the coastline more resilient. The City of Marquette is partnering with SWP to match the grant with \$3 million in funding. The Lakeshore Boulevard project will be a two year project breaking ground in 2020.
- The Hawley Street coastal wetland project broke ground in the fall of 2019. The footprint of the wetland has been constructed. Native plantings and the infrastructural rerouting of the storm water will begin in the spring of 2020.
- SWP added to its land trust by acquiring over 1,600 feet of Lake Huron shoreline, including 17 acres of old-growth northern forest, coastal wetlands, and rare fen marshlands. The SWP Lake Huron Community Forest will be open to the public with low impact hiking trails and interpretive signs.