

2020 CATF Year-End Report



Membership and Organizational Summary

- Ryan Stock & Zosia Eppensteiner selected to join CATF by Membership Committee
- Gail Anthony departs CATF upon retirement
- Transitioned to Zoom meetings in response to Covid-19 pandemic
- Established Marquette County Master Plan Committee on Climate
- Meeting presentations continued online to encourage external partner collaboration
 - Matt Zika from the National Weather Service on local climate change
 - Kristen Carlson, Tim Clancy, & Kevin Crupi from Citizens Climate Lobby Marquette (CCL) on city commission climate resolution
 - Courtney Timmons & Rich VanderVeen from the Superior Solar Project

2020 CATF Members:

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|----------------------|-----------------|-----------------|
| • Karen Alholm | • Bob Kulisheck | • Greg Seppanen |
| • Gail Anthony | • Emily Leach | • Dave Stensaas |
| • Zosia Eppensteiner | • Jerry Messana | • Ryan Stock |
| • Scott Erbisch | • Brad Neumann | • Jes Thompson |
| • Martha Gerig | • Tyler Penrod | • Tom Tourville |

2020 Steering Committee Members:

- | | | |
|-----------------|-----------------|----------------|
| • Gail Anthony | • Emily Leach | • Jes Thompson |
| • Scott Erbisch | • Tyler Penrod | |
| • Bob Kulisheck | • Greg Seppanen | |

2020 Membership Committee Members:

- | | | |
|----------------|---------------|----------------|
| • Gail Anthony | • Emily Leach | • Brad Neumann |
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Project Summaries

Clean Energy Initiative/Fund

The follow-up event to the 2019 clean energy stakeholder dinner was postponed due to Covid-19. The Clean Energy Fund was created by the Community Foundation of Marquette County (CFMC) in partnership with Range Bank to allow non-profits to apply for grants to complete clean energy work in the County. Grants will be distributed in 2021.

Community Environmental Monitoring Program (CEMP)

The Community Environmental Monitoring Program (CEMP) of 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. 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, Humboldt Mill, and along the designated transportation route. CEMP was extended until 2025 and continues to monitor quality of air, water, plant life, and animal life.

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 participated in Sustainability Week, hosted the Big Green Challenge, promoted Marquette County Solid Waste Authority's recycling initiative, and much more in 2020.

Great Lakes One Water (GLOW) Rain Garden Challenge

GLOW was originally a regional project focused on 27 Great Lakes coastal communities. The project was defunded in response to Covid-19, but continued as planned in Marquette. The Community Foundation of Marquette County led the Marquette team and the Great Lakes Conservation Corps installed rain gardens at Bothwell Middle School, the Marquette Yacht Club, and two residential locations within the City of Marquette.

Marquette Area Climate and Health Adaptation Project (MACHAP)

The MACHAP pilot program to build adaptive capacity at the local level by integrating public health considerations into existing community and climate adaptation planning was successfully implemented in the City of Negaunee and Marquette Township. A series of workshops involving stakeholders in each community created three guidebooks to address climate and health adaptation priorities. City of Negaunee and Marquette Township successfully received implementation funding from MDHHS for climate adaptation projects.

Marquette County 2040 Master Plan

Region Rallies to encourage community participation in the update of the county's master plan were cancelled due to Covid-19. Region facts were distributed by county planning staff virtually to encourage participation despite the challenges posed by the pandemic. CATF submitted a letter of support to the County Planning Commission in support of specific climate adaptation goals. CATF established the Marquette County Master Plan Committee on Climate to support the county's efforts to draft the climate section of the Master Plan. The Master Plan is on track to be completed in the spring or summer of 2021.

Marquette County Hazard Mitigation Plan

The 5 year update of the Marquette County Hazard Mitigation Plan mostly occurred in 2020, with participation from many county wide stakeholders including CATF. The plan is set to be adopted by FEMA in early 2021, and will open up FEMA grant funding for local units of government to implement hazard mitigation projects.

Marquette County Health Department (MCHD) Covid-19 Response

The Marquette County Health Department has worked very hard in 2020 to slow the spread of Covid-19 in Marquette County and save lives. The MCHD led the community through administration and community education of testing logistics, vaccine distribution logistics, administered quarantine locations for vulnerable populations and an outreach campaign for mitigation measures of the virus.

National Science Foundation (NSF): Coastlines and People Workshop Series

Dr. Jessica Thompson (PI), Dr. Sarah Mittlefehldt (Co-PI), and Dr. Scott Jordan (Co-PI) completed the three part workshop series and project booklet. The 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 resilience and sustainability planning. The workshop integrated expert presentations and interactive design thinking and systems mapping activities. The purpose of the workshop series was to cultivate partnerships between stakeholders and generate a shared vision for sustainable coastal

development along Lake Superior's south shore. The project booklet is now available to the public.

Northern Climate Network (NCN)

Jes Thompson passed the torch of planning Climate@Noon seminars to Ryan Stock. NCN hosted five Climate@Noon seminars in 2020 with topics including solar development in India, climate-smart agriculture, Michigan's Climate & Energy Advisor, report on NMU's 2020 sustainability audit, and the color of bunny. Seminars transitioned to Zoom in response to Covid-19 and were recorded to be shared on the website once completed.

Superior Watershed Partnership

The 2020 Great Lakes Conservation Corps (GLCC) consisted of 6 crews and employed 28 seasonal staff for the summer and fall field seasons. Some of the 2019 deliverables include 7,295 trees planted, 8,120 native plugs planted, 72 acres of habitat improved, 5,843 scrap tires recycled, 119 miles of trail built or maintained, and 167 buckets of beach grass transplanted. Two crews also inventoried 372 dams and culverts in Michigan's Upper and Lower Peninsulas. The crews followed Covid-19 protocols to avoid any confirmed cases.

The Energy Conservation Corps (ECC) transitioned to assisting U.P. communities with Covid-19 response with projects including food distribution and preparation of campsites and trails for outdoor recreation. The ECC accomplished their goal of installing solar panels for 10 low income households. They also provided services such as weatherization, home energy score assessment, financial literacy education, and energy conservation implementation to hundreds of U.P. families.

SWP and the City of Marquette broke ground on the Lakeshore Boulevard Project in the spring. The new road was constructed 300 feet back from Lake Superior and planning began for the naturalization of dune swale and coastal wetland ecosystems in the summers of 2021 and 2022.

The Hawley Street coastal wetland project was completed in the summer of 2020. After the footprint of the wetland was constructed, GLCC planted a couple hundred trees with protectors in the new wetland. The infrastructure for the rerouting of drainage directed the water to fill the wetlands to complete the project.

Project Resources

Clean Energy Initiative/Fund

CFMC Initiatives Website: <https://cfofmc.org/helpful-links/>

Community Environmental Monitoring Program (CEMP)

CEMP Website: <https://swpcemp.org/>

EcoReps

EcoReps Website: <https://nmu.edu/sustainablenmu/ecoreps>

Great Lakes One Water (GLOW) Rain Garden Challenge

CFMC Initiatives Website: <https://cfofmc.org/helpful-links/>

Coverage in Mining Journal: <https://www.miningjournal.net/news/local/2020/11/4-rain-gardens-created-in-marquette/>

Marquette Area Climate and Health Adaptation Project (MACHAP)

Climate and Health Adaptation Planning Guide for Michigan Communities:

https://www.michigan.gov/documents/mdhhs/ClimateHealthPlanningGuide_2020_10_2_accessible_704110_7.pdf

Marquette County 2040 Master Plan

Master Plan Website: <https://www.mqtcoplan.org/>

Marquette County Health Department

COVID-19 Resources:

http://www.co.marquette.mi.us/departments/health_department/#.YCQdMY9Kjcu

National Science Foundation (NSF): Coastlines and People Workshop Series

CoPe Website: <https://sites.google.com/view/copecoastlinespeople/home>

CoPe Report: https://www.flipsnack.com/Northernmagazine/nmu-cope-mag_2020/full-view.html

Northern Climate Network (NCN)

NCN Website: <https://nmu.edu/northernclimatenetwork/>

NCN Facebook: <https://www.facebook.com/groups/188899098115459/>

Superior Watershed Partnership (SWP)

SWP Website: <https://superiorwatersheds.org/>

Energy Program Website: <https://superiorwatersheds.org/energy-conservation>