

Upper Peninsula
Environmental Coalition
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Protecting and maintaining the unique environmental qualities of Michigan's Upper Peninsula by educating the public and acting as a watchdog to industry and government.

CR 595 efforts focus on route west of Silver Lake

By Jon Saari

As I wrote my article for *UP Environment* back in December, there were two potentially acceptable routes for the Kennecott Mine Haul Road (County Road 595): a route west of Silver Lake



A conservation easement has made road development parallel to Mulligan Creek "not prudent," but efforts to develop a road west of Silver Lake to haul ore from the Eagle Mine still threaten sensitive watersheds.

Photo by Christine Saari

and a route east of Silver Lake using the Mulligan Truck Trail that lies west of Mulligan Creek. The Matthews conservation easement, held by The Nature Conservancy, was blocking the Mulligan Truck Trail route, however, and needed to be "resolved" for this route to be considered "prudent and feasible."

In the final version of the CR 595 application, deemed administratively complete by the DEQ on January 17, the Mulligan Truck Trail issue has now been resolved in the minds of the Marquette County Road Commission. Two factors besides the conservation easement argued against the Mulligan Truck Trail route. First, being east of the uppermost dam on the Dead River would make it vulnerable to dam failure, as occurred in 2003. Second, the route parallels the Yellow Dog river for about a mile, and hence would be vulnerable to its flooding. But the Matthews conservation easement seemed the largest obstacle.

The CR 595 application cites specific passages in the conservation easement that detail the conservation values of the protected property (significant natural, aesthetic, scientific, and educational values), as well as "over 12 rare plant species in the area." It reiterates that the purpose of a conservation easement is

CR 595 Update See Page 13

UP Environment

Spring 2012

The Upper Peninsula Environmental Coalition's quarterly newsletter.

UPEC is the UP's oldest grassroots environmental organization.

Join us for the 4th Celebrate the UP on March 30-31!



Sylvania boat launch solution unclear

By Robert Evans

Ottawa National Forest administrators proposed last September three options for reducing the threat of aquatic invasive species introductions into Crooked Lake near Watersmeet. Crooked Lake is a major access lake for watercraft entering the Sylvania Wilderness. A fall 2011 *UP Environment* article described the options and expressed strong support for Option Three.

Option Three would convert the boat launch to a "carry-down" facility, requiring boaters to carry small watercraft to the lake for launching rather than the current practice of backing trailers into the lake. Using trailers has been implicated in moving aquatic invasive plants and animals from lake to lake because plant fragments and invasive animals such as zebra mus-



Spring skiing on Crooked Lake doesn't sensitize visitors to the threats from invasive aquatic species such as Eurasian watermilfoil. When the water is open, however, launching boats from trailers can introduce invasive species. Photo by Doug Welker

Orvana's Copperwood Mine Proposal: Different from Eagle Project, but still many concerns

By Doug Welker

For the last several years Orvana Resources U.S. Corporation has been evaluating the prospect of opening a copper mine (Copperwood) in Gogebic County, just west of Porcupine Mountains Wilderness State Park. This subsidiary of Toronto-based Orvana Minerals hopes to exploit a mineral deposit similar to that formerly mined at the White Pine Mine in Ontonagon County. Orvana currently operates mines in Bolivia and Spain.

The proposed Copperwood Mine ("Copperwood") would be developed in the Nonesuch Shale, which is interbedded with siltstones. These beds dip (angle downward) gently to the north, toward and under Lake Superior. Orvana estimates it would remove an average of 47.8 million pounds of copper and 110,000 ounces of silver per year from the shale over the mine's estimated 14-year lifespan. The shale contains an average of about 1.35% copper in the form of fine, dispersed chalcocite, a copper sulfide mineral. Mining would either be done by traditional drilling and blasting or by using a "continuous miner" machine such as is of-

ten used in coal mines. Continuous miners are a largely untested technology in shale deposits. About half of the mined-out shale would be left as pillars to support the roof and minimize future cave-ins.

To improve access to the mine, 12.85 miles of Gogebic County Road 519 will be reconstructed, at a cost of \$3.5 million. \$2.3 million will come from State taxpayers, \$300,000 from Gogebic County, and \$800,000 from Orvana. Orvana's contribution represents only 0.4% of the estimated \$200 million value of the copper and silver to be mined. One could ask whether the additional cost to upgrade the road to mining-truck standards is more than Orvana's share.

Among Orvana's activities have been exploratory drilling, submitting permit applications to the Michigan DEQ, and courting local community support. MDEQ has been reviewing the applications and has taken public input on the project. Orvana received a draft permit for the Copperwood Mine from MDEQ

Orvana's Copperwood Project. See Page 2

Water quality, mine integrity, adequate financial assurances all Orvana questions

Orvana's Copperwood Project. Continued from Page 1 in mid-February despite the following citizen concerns:

- The mine would be quite close to Lake Superior. The company desires to remove water from the lake and discharge it after it has been used in mining activity and ore processing. The discharged water would contain heavy metals (including mercury), sulfates, chloride, and ammonia.
- Orvana does not propose to fill the mine with tailings before closing it. Placing tailings in the mine would reduce subsidence and drastically reduce the potential for post-mining catastrophic events and water pollution. Subsidence of the ground surface above the mine would continue indefinitely after closure. This would likely affect groundwater conditions and surface water runoff into the lake, which is as close as 300 feet from the proposed mine. These effects are difficult to assess and have not been dealt with well in Orvana's applications.
- Questions exist about the structural integrity of the massive tailings disposal facility, and consequent pollution potential of nearby groundwater and surface water. Orvana has not provided a potential worst-case scenario for a catastrophic event at the mine.
- Long-term site and groundwater monitoring plans appear inadequate.
- The MDEQ took only two days to review Orvana's complex application (1000-plus pages) and declare it administratively complete.



A stretch of Lake Superior shoreline close to Orvana's proposed Copperwood mine.

- It is unclear whether financial assurances the state would require of Orvana would be sufficient for remediation, long-term monitoring, and for dealing with potential catastrophic events.
- There may be serious "boom-bust" socioeconomic impacts in local communities, which lack a diverse economic base.

- Hikers on the North Country National Scenic Trail, which runs east-west just a few hundred feet south of the tailings disposal facility, may be exposed to unwanted noise, dust, and less-than-scenic views.

A site plan for the mine is online at www.northcountrytrail.org/pwfl/copperwoodsitemplan.pdf

About UPEC...

The Upper Peninsula Environmental Coalition has over a 35-year track record of protecting and seeking to enhance the unique environmental qualities of the UP through public education and monitoring of industry and government. UPEC seeks common ground with diverse individuals and organizations in order to promote sound planning and management decisions for all the region's natural resources.

UP Environment is published four times a year and available online to share with family & friends. Send your comments or contributions to UPEC by standard mail at P.O. Box 673, Houghton, MI 49931, or e-mail us at upec@upenvironment.org. You can also visit us at www.upenvironment.org

USFS needs to formulate boat launch agreement with riparian owners to protect Sylvania from invasives

Crooked Lake. Continued from Page 1 sels can become attached to various parts of a boat trailer. Boat trailers quite likely transported Eurasian watermilfoil (EWM) to Crooked Lake. This invasive aquatic plant was first discovered in Crooked Lake in 2002. So far, the EWM infestation has apparently been confined to the lake's north bay (the portion outside of the designated wilderness).

On Jan. 18 Ottawa National Forest administrators announced their decision to select Option Three, albeit with a few modifications. Those modifications include a plan to "explore the development and availability of a facility that may be used to assist in launching canoes or other boats equipped with electric motors." This would assist people who "may not have the physical strength to lift and carry their boat to the water's edge." A second modification may prove more troubling in the long run, although details have not yet been announced. This modification would strive to "work out an agreement with the Crooked Lake riparian owners that would provide them the opportunity to continue using the existing boat landing via gated access." In other words, property owners on Crooked Lake's north bay who wish to use trailers at the boat access to launch watercraft could be allowed to do so under the terms of an agreement under development.

Selecting Option Three is a very

positive move by the Forest Service which UPEC applauds. Changing this boat landing to a carry-down facility is something that has been long overdue. This option would protect the lake and Sylvania from further introductions of aquatic invasive species. It would also help reduce unauthorized motorboat use within the wilderness portion of Crooked Lake.

However, the agreement with the riparian owners on the

lake needs to be formulated in a way that does not facilitate abuse of the privilege they are being granted. For example, granting permission for landowners to launch a boat in the spring and remove it in the fall may be acceptable and in the spirit of protecting the lake and wilderness from invasive aquatic species. On the other hand, granting permission for multiple launches and removals throughout the year, and extending the same privilege to guests of the owners, would not be acceptable in UPEC's view.

The Forest Service is under no legal obligation to provide and maintain a boat launch on Crooked Lake (or any lake, for that matter), so allowing riparian owners to continue launching boats with trailers is a privilege that must not be abused. UPEC will continue to monitor this decision as it is implemented this coming spring and advocate for a prudent agreement. We will provide additional updates as warranted.



A desirable long-term outcome of converting the Crooked Lake boat ramp to carry-down could be the elimination of Eurasian watermilfoil.

Photo by Bob Evans

Consider EarthShare payroll deduction to support UPEC

UPEC is a proud member of EarthShare of Michigan, an organization that allows working people to donate to environmental organizations through workplace giving campaigns. Each year EarthShare provides UPEC with critically needed funding for environmental education and program operation.

If you would like to help UPEC receive more funding, consider letting your employer know you want to participate in the EarthShare of Michigan giving option at your workplace through the annual payroll deduction plan. For more information, please call 1-800-386-3326 or visit www.earthsharemichigan.org



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NWNPS field trips educate about native plants

The North Woods Native Plant Society (NWNPS) is a group of professional and amateur botanists interested in learning about and protecting the native plants and plant communities of the western UP and northern Wisconsin. We schedule free botany hikes to special places during the summer. To receive trip notices and details by email send your name, email address, and town or region where you live (Marquette, Keweenaw, northern Wisconsin, etc.) to nwnpsociety@gmail.com.

2012 NWNPS Botany trips

May 19: Spring flora, Wolverine Trail near Ironwood, Michigan.

May 25 – 28: Michigan Botanical Club's Spring Foray event at the University of Michigan Biology Station (30 minutes south of the Mackinac Bridge). They are saving some slots for Yoopers. Information will be out in April.

June 9: Lake Superior shore, Presque Isle River, Porcupine Mountain Wilderness State Park.

June 23: Bog complex near Manitowish, Wisconsin (Colleen).

July 28: Otter River and Otter Lake, Baraga, Michigan area. Paddle trip with historical perspective.

August 11: Penokees Range, Wisconsin south of Ashland.

August 25: Wild rice lake ecology, Allagash Lake near Boulder Junction, Wisconsin.

Other trips are still in the planning stages. Email nwnpsociety@gmail.com for more information.

Don't forget those Econo Foods slips -- a slow & steady way to support UPEC!

Thanks to you and Econo Foods, UPEC has earned several hundred dollars over the past few years by submitting grocery receipts collected by UPEC members. That amount represents 1% of total gross receipts from all the slips.

That may not seem like a lot, but when you're a non-profit organization every little bit helps. Of course, that amount could be even higher this year if more of us were to save our slips and

send them in! For a family that spends \$100/week on groceries at Econo, this would translate into \$50 of annual support for UPEC.

Either save receipts throughout the year and mail them to us, or give them to a UPEC board member -- whichever is more convenient. It's one of the easier low-cost ways you can offer your support. Thanks!

Yes! I want to join UPEC in making a difference

(Please complete and give this to a UPEC board member or mail to UPEC, Box 673, Houghton, MI 49931)

Name: _____ I'd like to make an additional contribution to the following fund (s):
 Email: _____ (Email & Phone are optional)
 Address: _____ \$ _____ UPEC Land Acquisition/Protection
 City/State: _____ \$ _____ UPEC Environmental Education Grants
 Zip _____ \$ _____ UPEC Outreach Fund
 Phone: _____ \$ _____ UPEC MCCF Endowment Fund*
 Name of Person providing gift membership: _____

I'd like to support the goals of UPEC by enclosing a contribution for (please check one):

_____ Regular Membership (\$20)
 _____ Supporting Membership (\$50)
 _____ Student/Low Income Membership (\$15)
 _____ General Unrestricted Contribution
 _____ Gift Membership (include information above)

* If you want your contribution to go directly to the Marquette County Community Foundation, put **UPEC Fund** on the memo line and make it out to the foundation. We will forward the check to them. OR you can make your contribution directly to UPEC. We are a 501(c)(3) nonprofit organization and your contributions are tax deductible. THANKS! A UPEC membership and newsletter subscription make a great gift. Just provide the details and we will gladly do the rest.

Consider enclosing a note with feedback about this newsletter & UPEC's work.

Friday, March 30, 2012 – Kick-off – Federated Women's Clubhouse

- 2 – 5 p.m. Quarterly UPEC Board meeting. All are welcome to attend.
- 7:00 p.m. Filmmaker George Desort shares his experience creating the film *Fifty Lakes, One Island*, an exploration of Isle Royale's inland lakes. Carl Lindquist of the Superior Watershed Partnership performs original piano compositions.

Saturday, March 31, 2012 – Individual Presentations at Multiple Locations

Peter White Public Library – Community Room

- 10:15 – 11:15 a.m. **George Desort – Winter Study: A Behind-the-scenes Look at the Isle Royale Wolf-Moose Study**
Desort will tell stories about the people and adventures of Isle Royale's Wolf-Moose Winter Study. Using photographs and videos, Desort will bring the audience to the island as much as the island to the audience. Through his second Isle Royale film, Desort shares never-before-seen footage of the animals and anecdotes about the dedicated people behind the study (biologists Rolf Peterson and John Vucetich, and Alaskan bush pilot Don Glaser).
- 11:30 – 12:30 p.m. **Jack Deo – Lake Superior Time Machine: A 3-D Experience**
Take a trip back in time to the Lake Superior District, 150 years ago. Visit the mines, Native villages, and towns; see Lake Superior history come alive!
- 1:30 -- 2:30 p.m. **Michael Neiger/Chris Ozminski – Michigan Back Country Search and Rescue**
Followed by a brief introduction to MIBSR, Michael and Chris will present video highlights from two 2011 training expeditions in Canada along Lake Superior's north shore – the Dog River Canyoneering and Michipicoten Island Expeditions.

Peter White Public Library – Shiras Room

- 10:15 – 11:15 a.m. **Jeff Stasser – Mountain Biking the Upper Peninsula**
Jeff will share his passion of cycling with all attendees. He will discuss the value of getting children into a lifetime sport with low impact on their bodies and the environment. For area residents and tourists, cycling is becoming a lifestyle.
- 11:30 – 12:30 p.m. **Aimée Cree Dunn – Minwaakwaa: "A Heavenly Forested Place"**
From a mixed-blood perspective, *Minwaakwaa* will borrow elements from both

the body of *Anishinaabe* traditional ecological knowledge and the Western naturalist tradition to explore the many details of the UP, from long-lived trout lilies and uses of spring beauties to stories about ancient giant amik (beaver), that make this bio-region “a heavenly forested place.”

1:30 -- 2:30 p.m.

Carl Lindquist – The Watershed Approach

This presentation will start with an historical approach to watersheds; how people have understood (or failed to understand) their watersheds throughout history and why decision-makers at all levels are finally understanding the importance of the watershed approach again. Lindquist will emphasize the important role that individuals and community groups can play to influence watershed decisions. A series of projects completed by the Superior Watershed Partnership will provide examples of UP watershed protection and restoration.

The Landmark Inn – Sky Room

10:00 – 11:00 a.m.

Ellen Weingarten – Community Gardening in the UP: An Urban Trend Taking Root in Our Rural Backyard

Community gardening started in America’s urban centers as a way to mitigate blight and the woes that follow. Marquette County is experiencing a robust interest in community gardens, but the trend started simply out of the desire to have a place to grow vegetables. Learn about the community gardening movement nationally and locally, lessons learned, and where opportunities lie.

11:30 – 12:30 p.m.

Joe Kaplan – Planting a Future for Birds: The Escanaba Migratory Bird Initiative (EMBEI)

Joe Kaplan will present details of a community-supported initiative in Escanaba to enhance, restore, and create habitat in city parks and the Portage Marsh for the benefit of migratory birds. He will explore the dynamics of bird migration and the importance of “stop-over” habitat and the role native plant species play in supporting a diversity of birds. While planting a bird-friendly city is the Escanaba Migratory Bird Enhancement Initiative’s goal, the principles can easily be applied at any scale; Joe has recorded over 180 bird species from his small backyard!

1:30 -- 2:30 p.m.

Phil Bellfy – Living With the Land: *Anishinaabe* Environmental Ethics

When compared to the “visitor” culture, the *Anishinaabe* people have a very different way of interacting with the natural environment. Although often summed up in the phrase, “For the Next Seven Generations,” the *Anishinaabe* “world-view” goes much deeper than what may be evoked by that phrase. This presentation will explore the differences between the “Spiritual” and the “Sacred” within that *Anishinaabe* world-view, and how those two concepts can be applied in one’s own life and interactions with the natural world.

The Landmark Inn – Board Room

10:00 – 11:00 a.m.

Nancy Warren – Co-existing with Wolves

Why is it that some people think it cute to see a bear at a bird feeder and run for the camera, yet seeing a wolf in a distant field evokes fear for their personal safety? Nancy’s program helps to put the fear of wolves in perspective and explore the ways we can co-exist with wolves on the landscape.

Mqt. Co. Road Commission says road west of Silver Lake is ‘prudent and feasible’ – is it??

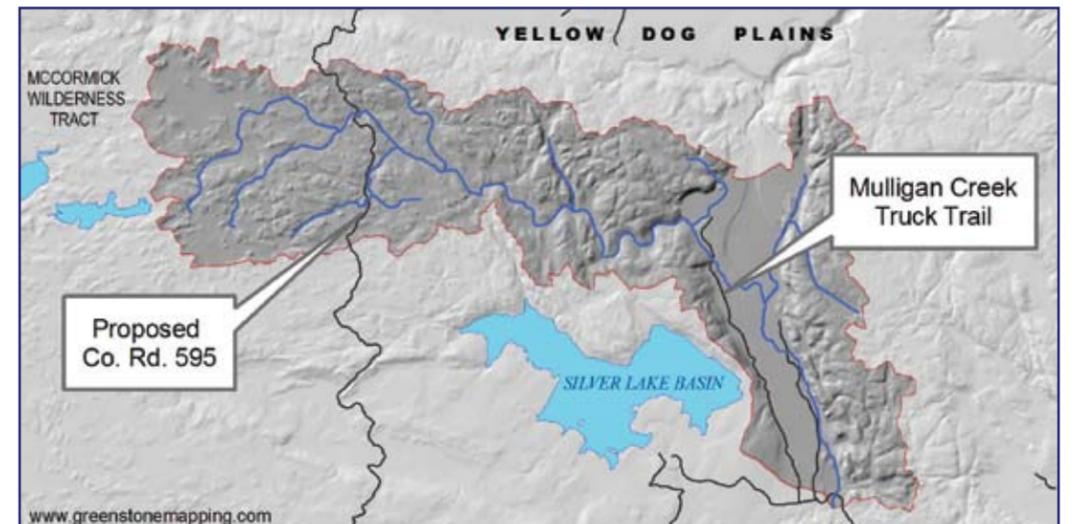
CR 595 update Continued from Page 16

to ensure that the protected property remains “forever substantially undisturbed in its natural, scenic, and wild condition.” Activities that are inconsistent with this purpose, such as roads, are expressly prohibited, the application noted.

Although there are judicial proceedings to extinguish such conservation easements, the road commission rejected that course of action: “MCRC is opposed to initiating eminent domain (i.e. condemnation) proceedings to construct a primary county road on the property within the Conservation Easement. The likely public opposition to such proceedings, and the negative publicity that would result to both MCRC and MDEQ would likely be substantial.”

The conclusion: “It is the applicant’s [MCRC] position... that the Mulligan Plains West alternative route meets the project purpose, is feasible to construct, but is *not prudent*.”

So now there is only one route recognized as “prudent and feasible”: the route west of Silver Lake which traverses the upper Mulligan watershed and other watersheds. The same conservation values apply to much of this land west of Silver Lake, but these values are unprotected by any conservation easement or deed restrictions, and hence are vulnerable



to degradation and worse. A major county road, such as the proposed CR 595, would severely impact the Silver Lake area, now characterized by its remoteness, its undeveloped character, and small, unimproved two-tracks.

Although the hammer of eminent domain is unlikely to fall, as the above developments illustrate, UPEC set up a public forum on eminent domain that was held in Marquette in late February. Dr. Phil Bellfy, a Native American educator, author, and MSU professor from Sault Ste. Marie facilitated the discussion. He has had extensive experience with the use and abuse of eminent domain in Michigan, especially in the Lansing area, and urged his audience that they cannot be too vigilant in defense of their own rights against the state and powerful corporations.

UPEC awards six environmental education grants

UPEC recently awarded six environmental education grants totaling \$3,000 from a record of 14 applications. A \$1,000 anonymous donation helped UPEC to provide this support. UPEC also recently received a \$500 contribution from Conserve School.

Grant recipients included the Michigan Tech Center for Science and Environmental Outreach, the Iron County Historical Museum, the Yellow Dog Watershed Preserve, Grant Township School, Jeffers High School, and a sixth recipient that requested to remain unnamed until it receives project approval from another organization. Projects include a regional Lake Superior Festival, a study of the Yellow Dog watershed currently threatened by metallic sulfide mining, a new day camp program, trail and habitat restoration, and outdoor classroom nature studies.

“This year we received the most quality grant applications since the program began,” said UPEC President William Malmsten. “It was difficult to decide which six to fund because all proposals had merit. UPEC salutes the area educators who help young people appreciate nature and the environment. Today’s young people will be tomorrow’s voters and leaders who will determine the destiny of our beautiful peninsula.”

“The screening committee had a difficult time this year evaluating the 14 applications,” Chairperson Connie Sherry said. “Educators from throughout the UP had excellent proposals for getting students and teachers into the outdoors to learn about this wonderful place where we live. The current unstable economic times have affected UPEC and, as a result, there was less money to distribute. The proposed projects are so important to the UPEC’s goals that it was disheartening not to be able to fund more of them. It is obvious that a great deal of care and thought went into their preparation. We hope that more donations will be made available in the future for the UPEC mini-grant project.”

Jon and Christine Saari

Jon and Christine Saari moved to Marquette in 1971, where Jon took up a position as China historian at NMU. Christine is an Austrian immigrant, photographer, writer, and heirloom artist. Both have been community activists for many years, he in environmental and Finnish-American groups, she within arts circles. In the 1990s, with an assist from a European inheritance, they became camp and wildland owners in the UP. Jon has written about the camp tradition as a distinctive part of UP backwoods culture; for Christine, camp is a reminder of the post-WWII Austrian mountain farms where she grew up. Now in retirement, they spend nine months of the year in the UP and three months of spring in Austria.



Citizens question fairness, integrity of CR 595 proposal

By Gabriel Caplett -- See complete article at headwatersnews.net

Hundreds of citizens packed an Ishpeming conference center on Feb. 21 to express opinions on the proposed "County Road 595" mine hauling project in west Marquette County. Of 61 speakers, a majority (34, including this author) criticized the project. Most support for CR 595 came from area politicians and industry representatives. Comments in support mainly paraphrased the CR 595 application's project purpose, a key component the Michigan DEQ must consider when reviewing the project. Comments against the project were more diverse.

Bill Malmsten, Upper Peninsula Environmental Coalition president, summarized a sentiment commonly heard during the hearing. "I'm pretty sure that there isn't a person in this room who doesn't understand that the real purpose of the County Road 595 proposal is not what's stated in the wetland application, that it's no coincidence that 595 would start at Kennecott's mill and end at Kennecott's mine, that's it's no coincidence that the 595 route follows almost the exact same route as the previously proposed mine haul road," said Malmsten. "The 595 proposal is an attempt by Marquette County officials to assist Kennecott in circumventing wetland regulations to construct the shortest possible haul road between the mine and the mill."

The CR 595 proposal resembles a previous "Woodland Road" proposal Kennecott submitted two years ago. Kennecott withdrew that proposal after criticism from the federal government. Marquette County officials revived it later in 2010 as "County Road 595." CR 595, like the Woodland Road, has been designed by the company, although the Marquette County Road Commission (MCRC) is now applying for the permit. Kennecott is currently authorized to haul ore from Big Bay to Marquette on CR 550, through Marquette,

and west on US-41 to the company's Humboldt processing mill. Rochelle Dale said she understands "things are complicated" and there are safety issues with any ore hauling route. Although Dale lives off of CR 510 – one of Rio Tinto's ore hauling options – she, like others stating they live along the current haul route, is opposed to the CR 595 road proposal.

"By not wanting the road to be 550 and into Marquette, it's like those people in Marquette who are for the mine, but they don't want to see those trucks, they don't want that truck traffic, so let's put it over here, we don't see it, we can forget about it," said Dale. "I think that we need to consider that there are things more important than the dollar."

George Lindquist, a hunter and resident along CR 510, questioned MCRC's potential use of taxpayer funding to plan, build, and maintain the road. "If this road is so important for access, for recreation, for timber, for all these other reasons besides mining, why has so little money gone into the Peshekee Grade all these years," said Lindquist. "The county, the road commission is putting a lot of money, a lot of time, a lot of effort into this with no guarantee of any outcome. This is taxpayer's money."

According to the MCRC, \$83 million is needed to repair existing county roads and bridges, while 60% of county road infrastructure needs repair. Despite these needs, Michigan Category A funding is already being used to upgrade stretches of Kennecott's hauling road not covered in the 595 plan, including CR 601, leading to the company's Humboldt Mill.

Editor's Note: Immediately to the right is a map that shows the proposed route of CR 595 as well as the Mulligan Truck Trail option that was recently ruled out by the MCRC.

11:30 – 12:30 p.m. **Dan Truckey – How the Land Shaped Us: The People of the UP**
Human inhabitants' effects on the UP environment has been discussed in many lectures and articles, but this talk will focus on the opposite. How did the UP's environment shape its inhabitants, from the *Anishinaabe* to the many Yankee, Canadian and European settlers who came to this region in the 20th century? In short, how did and does the UP's nature help to define the "Yooper" way-of-life?

1:30 -- 2:30 p.m. **Steve Kickert – Sylvania: Making of a Wilderness**
Sylvania exists today because of powerful forces of nature and influences of powerful men. Kickert examines the history of this cherished wilderness.

Federated Women's Clubhouse

10:00 – 11:00 a.m. **Will Hamilton – Drawing and Painting Wildlife in pencil and pixel**
Will presents several of his wildlife drawings and paintings with notes on observation and technique.

11:30 – 12:30 p.m. **Bill Hamilton – Winter Watercolor**
Bill Hamilton lives and paints at his house and studio on Little Lake near Gwinn. Once an Air Force fighter pilot at K.I. Sawyer, Bill took up his love of painting in retirement in his adopted UP home. This talk will focus on his winter landscapes.

1:30 -- 2:30 p.m. **Dean Beyer – Moose in Michigan: History, Biology and Considerations for Hunting**
Dean will review the history and biology of moose in Michigan, including their current status and the outlook for the future. He will also discuss the current interest in establishing a hunting season for moose and the biological considerations related to harvesting moose.

Panel Discussion with the Public – Peter White Public Library

3:00 -- 4:45 p.m. **Living in the U.P.: Life Ways on the Land**
Most of our panelists have chosen to own land in the UP. – as it were, to have their own piece of paradise. Why did they make this choice and how did they pull it off? What is their emotional attachment to the land? How do they use it? How do they think about the future of this land? Two camp-owning couples, two alpaca farmers, and a forest ecologist/homesteader will address these questions. One panelist has chosen not to own land, but instead has spent countless hours recreating and exploring the public lands in the UP. We hope many others who love and use land, private or public, will join the discussion.
Panelists: David Allen, Chris Burnett, David Kallio and Nancy Olsen, Donna Pearre and Carole Van House, and Jon and Christine Saari
Moderator: Mary Martin

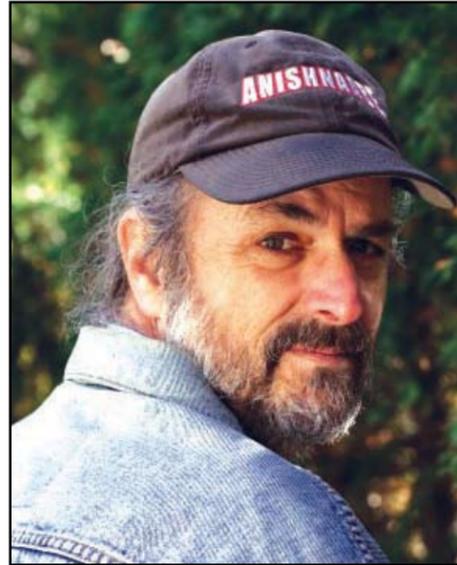
Public Reception – Federated Women's Clubhouse

5:00 -- 7:00 p.m. Please join us for refreshments and hors d'oeuvres, meet other folks who share a love of all things UP, and talk with many of the presenters and panelists.

Presenter Biographies

Phil Bellfy

Dr. Phil Bellfy is a member of the White Earth Band of Minnesota Chippewa who traces his Crane Clan ancestry in the UP back to 1671 (ten generations). He is a Founding Member of the American Indian Studies Program at Michigan State University, where he is an Associate Professor in the Department of Writing, Rhetoric, and American Cultures. He also serves as the Executive Director of the Center for the Study of Indigenous Border Issues, a 501(c)(3) educational non-profit incorporated in Michigan. He is also Editor and Publisher of CSIBI's Ziibi Press. Phil's most recent book *Three Fires Unity: The Anishnaabeg of the Lake Huron Borderlands*, won the University of Nebraska Press "North American Indian Prose Award" for 2010. He resides in Sault Ste. Marie and has been active in environmental and political affairs for over 40 years. Phil is currently a member of the Saginaw Chippewa Tribal College Board of Regents.



Dean Beyer

Dean Beyer received his B.S. in wildlife biology from the University of Vermont, and his M.S. and Ph.D. degrees in wildlife ecology from Michigan State University. He is currently a wildlife research biologist for the Michigan Department of Natural Resources and Environment, a position he has held for about 15 years. Prior to coming to Michigan, Dean worked for the Florida Game and Freshwater Fish Commission and the U.S. Forest Service. His research interests include population dynamics of large mammals, abundance estimation, and predator-prey interactions.



Aimée Cree Dunn

Aimée Cree Dunn, born on the north shore of michi-gami (Lake Michigan), is a lifelong resident of the northern Great Lakes area, particularly the rural Upper Peninsula and Wisconsin's Northwoods. Her mixed-blood heritage informs much of her work for the Earth which includes teaching, writing, and Green activism. As an instructor, Aimée teaches Native American Studies with an environmental emphasis at the college level and has conducted place-based workshops for people of all ages. Focusing on the rural and indigenous struggles to live on and protect the land, her writing has been published in *Green Theory and Praxis: The Journal of Ecopedagogy*, *Amber Waves of Green*, *Green Horizons*, and the recent anthology, *Voice on the Water*. She is co-founder of The Little Green Schoolhouse and the coordinator for Northern Michigan University's Seventh Fire Project and Indigenous Earth Issues Summit. Aimée says she ventures to the city only under duress and would prefer to stay in the woods all day, every day with the squirrels, the crows and the mighty chickadees. You can find her online (as much as she despises the Internet Revolution) at seventhfireproject.blogspot.com.



Chris Burnett

Chris Burnett grew up as a country boy in the Berkshire Hills of western Massachusetts. He received a B.S. in forest biology from the SUNY College of Environmental Science and Forestry at Syracuse in 1971 and a Ph.D. in mammalian ecology from Boston University in 1982. Chris has worked as an environmental consultant, interpretive naturalist, wildlife ecologist (specializing in the energetics and behavior of bats), consulting forester, public service forester, and professor of forestry, biology and education. Currently, he works throughout the Lake States and parts of Canada as an independent chain-of-custody auditor in the Forest Stewardship Council system of certified wood products. Chris moved to Chocolay Township in 1989 where he manages 80 acres of forest, farmland, and water for recreation, biodiversity, water resources, timber, and good things to eat. He is a former board member of the Upper Peninsula Environmental Coalition and the Yellow Dog Watershed Preserve. Currently he is on the board of the Upper Peninsula Land Conservancy focusing on the development of working forest conservation easements that support ecological values through active forest management.



Dave Kallio and Nancy Olsen

Nancy Olsen was born in Escanaba, Michigan and moved to Marquette County in the mid-1970's. Dave was born in Marquette and has resided here most of his life. Nancy is a retired educator and school counselor, and Dave retired from business and is currently a township official. Their appreciation for the land was enhanced during an early trip to Sylvania Tract and annual visits to the Boundary Waters of Minnesota and Quetico in Ontario. They reside in Sands Township near the Blueberry Ridge Ski Pathways on 54 acres of land. Their interests include gardening, outdoor activities, travel, learning, and solitude.

Donna Pearre and Carole Van House

After completing their doctoral degrees in Counseling Psychology, and teaching in Europe for Ball State University for a year, Donna Pearre and Carole Van House moved to the UP in 1977 to teach for NMU in the Masters Program in Counseling. Carole taught, provided services as a psychologist in the NMU Counseling Center, and served as Director of the Center. Donna also taught, directed the Academic Advisement and Counseling Services, and became the Vice President of Student Services. Eventually, Carole left NMU to develop a full time private practice, but they both yearned for a "simpler" life in the country. This yearning led them to the ultimate decision to leave their professional lives behind. They purchased an 80 acre property in West Branch Township which they christened "Avalon Farm", taken from the then popular novel, *The Mists of Avalon*. Having made this leap of faith together, Carole and Donna bought two horses (for pleasure) and looked for the perfect way to make their farm self-sufficient. For them, the answer was breeding alpacas. They have never regretted these life altering decisions. www.AvalonFarmAlpacas.com



Nancy Warren

The Timber Wolf Alliance (TWA) is a program of The North Lakeland Discovery Center, Manitowish Waters, Wisconsin. TWA is committed to investigating the facts and relies on the growing body of scientific research to dispel myths and unfounded fears associated with wolves. Wolves, a natural part of our state's heritage and ecology, are reclaiming their presence in the northland. Nancy's passion began about 20 years ago when she learned that we had a handful of wolves in the UP. She attended workshops, conferences and lectures and discovered that for wolves to survive, there must be human tolerance. One way to improve human tolerance is by gaining a better understanding of wolf behavior through education. As a volunteer for the TWA Speakers Bureau, Nancy gives programs at schools and various organizations throughout Northern Wisconsin and the Western UP. She has been a volunteer tracker for the Wisconsin Volunteer Carnivore Program since 1995, has conducted howling surveys and has assisted with the collaring of several wolves in Wisconsin. Nancy served on the DNR Wolf Roundtable where the guiding principles for the Michigan Wolf Management Plan were developed. She also serves on the Timber Wolf Alliance Advisory Board. Nancy, her husband, and two dogs live near Ewen. They have welcomed and adapted to having wolves and other wild animals visit their property.



Ellen Weingarten

Ellen Weingarten has served on the Marquette Community Gardens Board of Directors for seven years alternately as president, vice president and communications coordinator. In these years, the MCG has doubled the number of beds offered to Marquette City Residents and established a second garden site. Ellen is an avid gardener and proponent for the MCG and the community gardening movement.

Panel Biographies

David E. Allen

David is retired from the NMU College of Business, where he taught classes in quantitative area, operations management, marketing research, organizational behavior and organizational theory. He really likes to ski (lift, backcountry and tracked), hike and backpack, fish, bike ride - just generally getting out. He is married to Judy with two kids, and lives in the big city (Marquette). He has been a member of the CUP group of the Sierra Club and UPEC for many years. David's early involvement with the CUP group involved cleaning up at the Little Presque Isle tract north of Marquette (and he is still doing it). This activity contributed to his sense of place in the UP (woods, water, winter, wildlife).



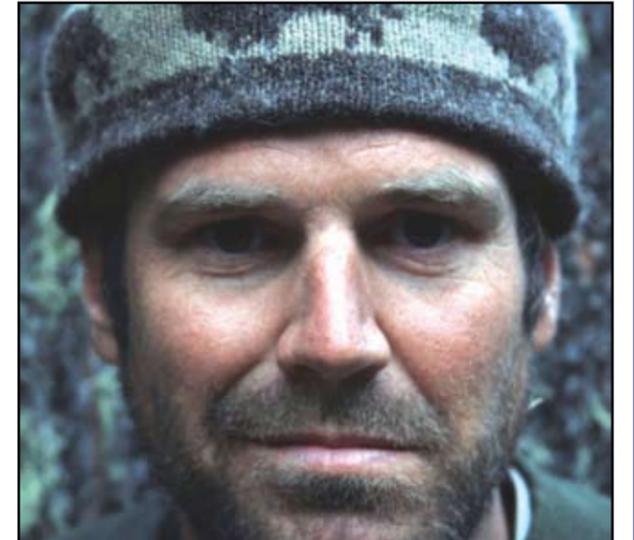
Jack Deo

Jack Deo is the owner of Superior View Photography in downtown Marquette. Since 1978, Superior View has acquired over 10,000 negatives and photographs from all around Michigan. His website, viewsofthepast.com, has 20,000 cataloged images. A photographer since 1969, Jack's own work has been published and exhibited in numerous books, articles and shows. Jack has been lecturing on UP history for years, and is thrilled to be now giving his talks in 3D.



George Desort

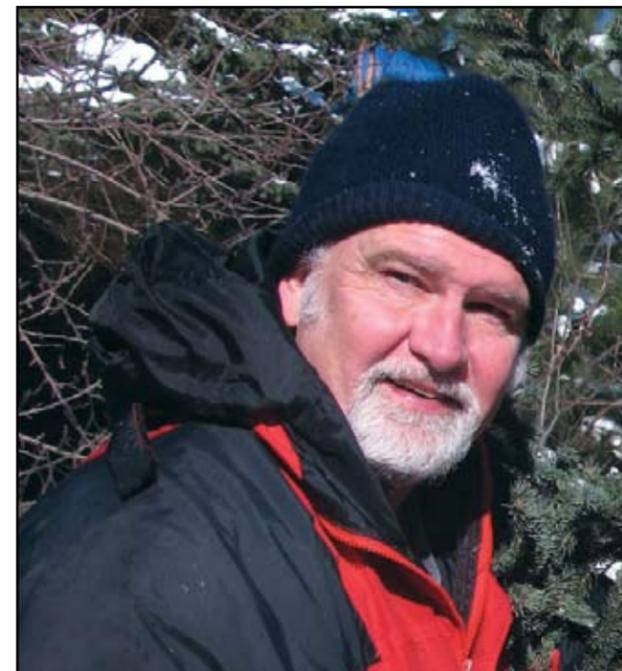
After shooting a feature-length documentary during the summer of 2011 in rural North Carolina, George Desort spent over eighty



days filming *Fifty Lakes, One Island* on Isle Royale for his latest independent project. The island has become a second home for George since joining the Isle Royale Wolf-Moose Study in 2005 as a filmmaker and photographer. His work has appeared in *Audubon*, *National Geographic*, *Backpacker*, *The New York Times*, *Chicago Tribune*, and PBS affiliates across the country. *Fortunate Wilderness*, the wolf and moose study of Isle Royale was a finalist at the 2009 International Wildlife Film Festival.

Wil Hamilton

William P. Hamilton (Wil) has been a biological and medical illustrator and artist for more than 40 years. He began his career illustrating a biology text, an African art syllabus and as an editorial cartoonist for *The DePauw*. After earning an undergraduate degree in Art, Art History and Zoology, he attended the Ohio State University program for Medical Illustration. He is a board-certified Medical Illustrator (CMI), a Fellow of the Association of Medical Illustrators, and has served as Chairman of the Board of Directors and President of the AMI as well as served on the boards of The Vesalius Trust, Guild of Natural Science Illustrators and the Vermont Chapter of the Graphic Artists Guild. His book with Dr. L. C. Hudson, *Feline Anatomy for Veterinarians*, is in its second edition. Wil's work has appeared in dozens of books and magazines including work for National Geographic and the United Nations. Wil has been drawing animals his entire life and has been fascinated by their anatomy and natural history. Sort of retired from medical illustration, he is spending more time drawing the wildlife of both today's and yesterday's worlds. He is also a ten-year



special deputy sheriff with Marquette County Sheriff's Search and Rescue and edits the Central Upper Peninsula Sierra Club Newsletter.

Joe Kaplan

Joe Kaplan is a director of Common Coast Research & Conservation a non-profit that specializes in Common Loon research and migratory bird conservation. He is a former director of the Whitefish Point Bird Observatory where he was instrumental in securing an extension of Seney National Wildlife Refuge at the Point. He is also responsible for establishing and managing the 93-acre Manitou Island Light Station Preserve (Whitefish Point's sister light) through the Keweenaw Land Trust. Joe lives in Delta County and coordinates the Escanaba Migratory Bird Enhancement Initiative to protect stopover habitat for neo-tropical migrants in the City's waterfront parks, Portage Bay, and the Portage Marsh State Wildlife Management Area.

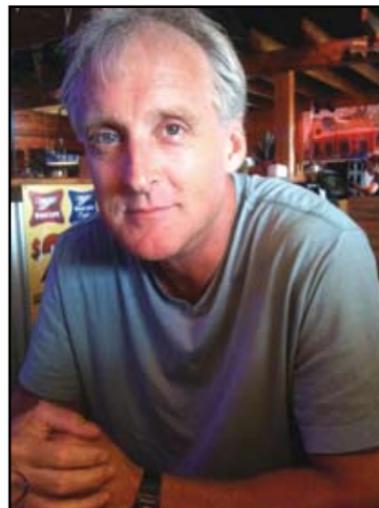
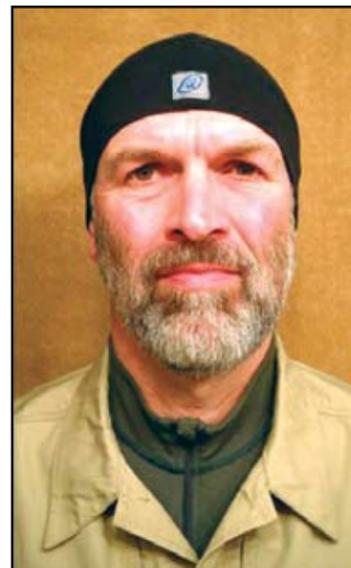


Steve Kickert

Steve Kickert is the Conservation Education Coordinator for the Ottawa National Forest, a position he has held for the past year and a half. Prior to that, he was director of the Seneca Rocks Discovery Center on the Monongahela National Forest in West Virginia. He spent thirteen years as an information specialist on the Daniel Boone National Forest in Kentucky and seven years as park naturalist at Cumberland Falls State Park in Kentucky. Steve and his wife Rita, live in Land O' Lakes, Wisconsin with Shilo the dog, and Harriet the cat.

Carl Lindquist

Carl Lindquist is the Executive Director of the Superior Watershed Partnership (SWP) a Great Lakes non-profit organization serving the Upper Peninsula of Michigan. Lindquist has worked in the conservation field for over 25 years including state programs in Wisconsin and Vermont and federal programs on Mt. Rainier and Isle Royale. Carl served two terms as the US Chair of the Lake Superior Binational Forum (US and Canada). He is most proud of his work in the non-profit sector where SWP partners have been able to achieve state and national recognition for community-based pollution prevention and watershed protection. Carl received his degree from the University of Wisconsin.



Michael Neiger

Michael Neiger is an avid wilderness tripper who has paddled and skied solo to the Arctic Ocean. As a wilderness guide, he has led hundreds of backpacking, canoeing, and snowshoeing trips and expeditions across northern Michigan and Ontario, Canada. He enjoys research and writing and is currently working on detailed backcountry guidebooks to the history, caves, old growth, overlooks, shipwrecks, and hidden gems of Grand Island and Pictured Rocks. As the founder of Michigan Backcountry Search and Rescue, Michael assists families and law enforcement agencies with missing-person cold cases in remote wilderness regions of Michigan and Ontario.

Chris Ozminski

Chris Ozminski has been an avid outdoorsman since childhood, in the 1960s, when his mother introduced him to camping, hiking, canoeing, fishing, and nature study. He has enjoyed wilderness expeditioning for over 40 years. Chris has been a part of Michigan Backcountry Search and Rescue (MiBSAR) since its beginning. A recent graduate of film school, he shares his passion for the outdoors with film.



Jeff Stasser

Jeff Stasser grew up in Grand Lake, a small, isolated town in the northern mountains of Colorado. His parents exposed him to many outdoor opportunities as a child. As a young adult, he couldn't be separated from his skis in the winter and bike in the summer. Nordic skiing led him around the



world after high school; he raced all over Europe and the U.S. Finally, Jeff landed in Marquette and skied on the NMU Ski Team. While finishing his degree, he started working at Down Wind Sports part-time. He discovered he loved working with people and getting them into the sports that he so enjoys. After college, he was given the opportunity to "buy himself a job", and became part owner of Down Wind, which has a Houghton location as well. Jeff continues to enjoy all of the outdoor sports that brought him to the Upper Peninsula.

Dan Truckey

Daniel Truckey is the director/curator of the Beaumier UP Heritage Center at Northern Michigan University. He manages all operations of the center which includes exhibitions and public programming. In addition, he coordinates the NMU International Performing Arts Series and teaches courses in Museum Studies and Upper Peninsula folklore. Dan holds a B.A. in History from Northern Michigan University, an M.A. in Popular Culture from Bowling Green State University, and an M.A. in History Museum Studies from the Cooperstown Graduate Program, SUNY-Oneonta. Professionally he has worked as a curator and administrator for many large and small history museums including: the Grand Traverse Heritage Center in Traverse City, Michigan, Sioux City Public Museum in Iowa, the Connecticut Historical Society, Simsbury Historical Society (Connecticut), Litchfield Historical Society (Connecticut), Noah Webster House, Catskills Entertainment Hall of Fame, Michigan Historical Museum, Father Marquette Museum and Fort Wilkins State Park. He is currently on the board of the Pine Mountain Music Festival and FinnFest USA. He has formerly been on the boards of



the Michigan Museums Association, Iowa Museum Association and the Traverse Area Arts Council.