



The ALMANAC

A newsletter of Wolf Ridge Environmental Learning Center

October 2017 Volume 48 Number 3

MAKING WAVES PROJECTS REPORT



If you visit Wolf Ridge you can feel the energy and anticipation in the air as we continue down the path with our Making Waves projects.

In May, the seasonal staff moved into their new home, which was christened Lakeview House. "This is the most upscale place I have ever lived," commented one of the seasonal naturalists. Not only does Lakeview have fabulous views but it also boasts a cozy wood pellet stove, a variety of large and small group spaces, a large basement area ideal for ping pong and other recreational activities, craft projects and storage space as well as numerous energy saving and use tracking devices. The Lakeview House was our learning project for the Living Building Challenge.

They learn about devices that will monitor energy consumption in each room, airflow that will cool the building in summer, and try their hand at applying caulk and pounding nails.

With construction on the MAC Lodge underway, temporary housing is necessary. Some of our summer guests were the first to stay in the Village complete with campfire ring. Bullyan RV is leasing Wolf Ridge 30 cozy and comfortable RVs. The Village sits in our middle and top parking lots. Each Wolf Ridge Special Edition RV sleeps 7, with a queen size bed, 2 sets of bunk beds, a converted table bed and a converted couch bed. The RV's have the highest efficiency available, featuring LED lighting, energy efficient appliances and heating (heater) and cooling (AC). They also feature a solar photovoltaic option with a ready to go power system. Each RV has unlimited water available. An auxiliary building houses cleaning supplies and the laundry facilities.



June 3rd was the official ribbon cutting for Lakeview House complete with tours. This was immediately followed by the groundbreaking ceremony for the renovation of the West Dorm soon to be dubbed the MAC (Margaret A. Cargill) Lodge.

In August, Wolf Ridge launched an additional website about our Making Waves capital campaign projects: Lakeview staff house, a centralized maintenance building, the West Dorm renovation, and classroom space on our Lake Superior land. Visit this website at Wolfridgelivingbuildingchallenge.org.



The metamorphosis of the MAC Lodge is advancing. In a matter of 2 weeks, the building was stripped of items to be reclaimed and recycled. New triple-paned windows have been installed. Footings are ready for expansions, stairs and elevator shafts built, and, even more exciting, kids are part of the whole process. As part of our *Energy in My Home* class, students don hard hats, safety vests and

We hope this inspires you to contribute and spread the word to other potential donors. ♦



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VIEW FROM THE RIDGE

by *Pete Smerud, Executive Director*



It's been a joy to hear from so many Wolf Ridge friends, former school students and campers, staff, and families. Wolf Ridge is getting some great feedback on what is occurring here with facilities upgrades. As I talk with many, I'm learning while they're impressed and see the value for how it will improve Wolf Ridge learning experiences, I'm also learning they don't really "get it." When I tell them the significance and a few stories of our recent work the response has been, "Wow, I really didn't understand what is happening here." It's not just a set of building projects... its global change and an entire new future for learning at Wolf Ridge.

If you're one of those folks who may not yet get it, you should know Wolf Ridge is doing something that has never been done in MN, WI, ND, or SD - designing, building, and placing our future generations in the first ever building in MN that is designed and constructed to full certification of the Living Building Challenge, the highest international standard of sustainability a building can achieve. We're going above LEED Platinum. It will be a living laboratory of learning for future generations.

We, and the entire team on this project, have learned there is a reason that they call it Challenge. It has been and continues to be really tough work. Our sourcing of materials is setting a new industry standard by what we put into buildings. For decades we have demanded to know what the ingredients are for the food we ingest, we are now doing the same for what materials put into the buildings in which we sleep and live every day. For example, we know the ingredients of the paint on the hot water circulation pumps and we know that the

sand to make the glass of our windows was mined from a gravel pit in Menonimie, WI.

This work sets a new standard for human and environmental health. Unless no alternative exists, there are zero red list chemicals in the products going into the renovation. We're supporting local economies and diminishing transportation impacts. And, the carpenters, plumbers, electricians, concrete workers, etc. who are leading this international level of sustainability effort are from Two Harbors, Ely, Hibbing, Grand Rapids, Duluth, etc. We're supporting worker safety relative to our building materials. And for Wolf Ridge we're modeling for thousands of children and their families what is possible.

Our goal is to make the act of doing the "right thing" for the environment, the easy thing. We're asking questions that have NEVER been asked of contractors and manufacturers. Check our new website - Wolfridgelivingbuildingchallenge.org and learn about how a simple request to a manufacturer reduced packaging by 90% and all the packaging waste was 100% recyclable. What normally would have filled a mid-sized dumpster with waste, would have fit into a car's trunk and was 100% recyclable.

It's not only about how we design and construct a building for humans to live net zero energy and water; it's about how we will live within it. The entire Wolf Ridge Community needs to "get it," in that they are part of the changes and leadership in sustainability that already is changing our collective future. ♦

SEVEN REASONS FOR HELPING WOLF RIDGE MAKE WAVES - NOW!

by Tom Berg, Co-chair Making Waves Campaign



A picture is worth a 1,000 words, and some pictures are worth more than words to the next generation of kids attending Wolf Ridge as they benefit from the extensive new facilities. Pictured above are some of the major donors to the Wolf Ridge Making Waves campaign. Each donor of \$10,000 or more receives a specially designed limited edition print from well-known Grand Marais block print artist, Betsy Bowen.

It's money well spent, as sustainable construction is the mantra for the Making Waves construction project. The construction requirements of the Living Building Challenge are tough, but Wolf Ridge's construction team is working hard and successfully to meet this high standard for sustainable construction. This results in more recycled materials, buildings that use less energy and water, buildings that become teaching devices for kids, and buildings that will last for decades with minimum maintenance.

A penny saved is a penny earned, and donors can now save Wolf Ridge real money. Wolf Ridge still needs to raise over \$2 million to meet its goal. In order to take advantage of current fixed

price contracts and allow contractors to keep working in an economical manner, Wolf Ridge has entered into a line of credit construction loan agreement. Donations given now will not only pay for completing the already designed facilities, they will also save interest costs. Ben Franklin's adage has never been put to a better use.

Everybody likes a winner, and you can become part of the winning team that is now Making Waves at Wolf Ridge. Team members include HGA Architects, general contractor Gardner Construction, and more than a dozen talented sub-contractors, all working both smart and hard to keep the project on time and on budget. Your fellow team members will also include the generous Wolf Ridge Board of Trustees and members from the Wolf Ridge staff, such as Executive Director Pete Smerud, Education Director Shannon Walz, Finance Director Ken Smith, and Database Manager Jessica Vance. With a lineup like this you can see why the team is growing its fan base from donors, students, campers, teachers, chaperones, construction workers, and citizens everywhere who are concerned about our environment.

Cool, clean water, is a great place to make waves. The Wolf Ridge classrooms on Lake Superior will be an awesome place to learn about protecting humanity's most critical resource.

You will sow seeds of change, as Wolf Ridge educates twelve thousand plus kids each year in an inspiring setting about the relationship among plants, animals, humans, and the planet on which we live. These kids grow up to become good citizens. Also, each year, about 15 to 20 student naturalists graduate from Wolf Ridge on their way to obtaining teaching certificates and advanced degrees at some of our country's best colleges and universities. Over its 46-year history, Wolf Ridge has educated over 500,000 children and trained over 600 naturalists and teachers, many of whom are now in important positions in universities, businesses, and schools across the country.

Your donation is tax deductible.

So, if you haven't already given, please do so now; and if you have given and can do so again, Wolf Ridge promises it will put your donation to very good use. ♦

These Wave Makers have raised \$6,727,411 as of September 19th

\$1,000,000+

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\$500,000-\$999,999

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\$100,000-\$499,999

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Student Naturalist's SY 03-04
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Construction is well under way on the Margaret A. Cargill Lodge (formally the West Dorm) with completion scheduled for November, 2017. Also, to be completed by December is a driveway, parking lot and small classroom at our Lake Superior site. All of this is really great and exciting! However, in order to fund this project, the Wolf Ridge Board of Trustees had to secure a line of credit loan at the Lake Bank, Two Harbors, MN to cover the short fall in donations received. The terms of the loan are very favorable to Wolf Ridge in that we are obligated to only pay interest for 5 years. However, we cannot afford to carry this debt for 5 years. We must complete our fundraising efforts to ensure that we can fully pay any borrowed funds as soon as possible. Therefore, we need the help of current and new donors. If you can help, please contact Pete Smerud at 218-353-7414. ♦

Thank you for the outstanding commitment!

*In-kind donors

EXPLORING SUSTAINABILITY

by Danielle Hefferan, Wolf Ridge Naturalist

Close your eyes and think of the word sustainability. What do you see? What do you feel? Try to define the word. If your education was anything like mine, maybe you picture a Venn diagram with three bubbles labeled ecology, economics, and society; where the three overlap - boom, sustainability. Simple.



Last year the graduate community here embarked on a community adventure that led us deep into the world of sustainability. This month long workshop series led by Luciana Ranelli blew my worldview to pieces and made me question all my preconceived notions of this mystery called sustainability. We began working in small groups attempting to mind map our thoughts on sustainability. The large piece of paper before us started filling up with words like economics, ecology, society, future, systems, etc. We felt satisfied. We explored various ecological principles such as, linear and complex systems, self-organization, feedback loops, nested-ness, r-selection, k-selection, entropy, and the second law of thermodynamics. The small groups came together for discussion. We openly followed along. With furrowed brows, we scratched our heads and went back to our mind maps to add more ideas.

The next three weeks were incredibly rich with various guests and field trips to further our thoughts on sustainability. The wonderful professionals and topics that challenged our beliefs were:

- **John Kohlstedt** (Wolf Ridge Naturalist) took us to various plant communities along the North Shore to observe landscape patterns and ecological concepts.
- **Honor Schaulaund** (Director of the

Friends of the Finland Community) shared Finland community patterns as we contemplated resilience.

- **Patrick Thibaudeau** (VP Sustainable Design Practice, HGA architects) hosted a Living Building Challenge Panel, allowing us to ask questions about sustainable design. Patrick led the team designing the new building projects here at Wolf Ridge. He shared stories how the overall design of a building can increase sustainable practices and community building.
- **Nancy Schultz** (Wolf Ridge Board member and architect) gave us an in depth tour of her Platinum LEED certified home in Isabella.



• **Lise and David Abazs** (Owners of Round River Farm, and Farm Managers of the Wolf Ridge organic farm) shared their niche and passion concerning their life missions. They have lived off the grid 30 years and have inspired numerous folks who volunteer on their farm.

• **Dave and Amy Freeman** (MN based Explorers) presented stories and lessons from their expeditions for political change. Dave and Amy have traveled across the North American continent, to the Arctic and Amazon to name a few. They share their adventures through their organization, Wilderness Classroom, which reaches about 100,000 elementary and middle school students across the U.S. They most recently spent a year in the Boundary Waters.

• **Ben Friesen** (EdTech) brought technological toys for everyone to play with that have the ability to enhance wilderness connections for students.

Somewhere along the way we were allowed to start with a brand new mind map, which we all needed. As my group gathered, we kept asking each other questions upon questions. None of us could even open the marker to begin writing anything down. There our paper sat staring back at us, completely blank for over a week. There was only one word that kept coming up in all of our discussions - scale. We were utterly overwhelmed by the effect scale had on any detail when trying to decide if something was sustainable or not. For example, what is more sustainable, a 20-year-old beat-up \$100 dollar car or a \$30,000 electric SUV? What amount of energy went into and will come out of these products? What kind of generational capital is needed to buy either vehicle? What is the value of new verses reused? The ripple effect of these questions couldn't be captured on a piece of paper for us.

Our final mind map was constructed with multiple paper towers representing various planes, color coordinated post-its in concentric circles, and a metaphor of an atom to explain it all. In order for a bystander to understand what we had created, they would need an interpreter. I still do not have a concrete definition of sustainability. I feel a range of excitement, frustration, and hope when I ponder the idea.



So what is sustainability? Well, as I have learned it's complicated, more complicated than a Venn diagram. As we conduct this sustainability series again maybe we will come to a stronger definition. ♦

WOLF RIDGE NEWS BRIEFS

Many exciting events have transpired at Wolf Ridge these past few months.

- Wolf Ridge was pleased to have a visit by **U.S. Senator Al Franken's staff** at the end of June. They came to learn about our biofuel heating system, Living Building Challenge projects and our farm to school efforts.

- The **MAEE** (Minnesota Association of Environmental Educators) held their **annual conference** at Wolf Ridge in July. Wolf Ridge presenters included Shannon Walz and Luciana Ranelli on assessment, Joe Walewski on the Spiral Learning Model and ferns, and Mikki Brevig leading an evening voyageur canoe brigade. Participants really enjoying learning about the farm through the wood fired pizza dinner.

Campers really relished the new summer offerings.

- **Green Energy** campers were busy building switchable LED flashlights, solar ovens, Play-Doh electrical circuits, a battery, a green energy campsite, solar powered water fountain, and a full size sailing canoe that they sailed on Wolf Lake. One afternoon they produced power for watching TV and playing an electric guitar by pedaling the Wolf Ridge bike generator. After exhaustion set in, the group relaxed on the couches in the "Green Energy House" eating solar oven baked chocolate cake while watching "Horton" via a battery powered by a solar panel.

- A kayak trip in **Voyageur Natl. Park** had a terrific time. A highlight was visiting the Ellsworth Rock Gardens on Kabetogama Lake. Started in the 1940's the Gardens are composed of 62 terraced flower beds and over 200 abstract rock sculptures created from native stone.

- The **3-wk BWCAW** tested their skills following the boundary between Canada and U.S. and came up victorious. This is the longest trip Wolf Ridge offers. Along their journey they visited many waterfalls. Following old voyageur routes and



2 pictographs sites made history come to life.

- **Superior Service Learning** campers came away with new knowledge about trail and campsite maintenance and feeling satisfied after their hard work doing upkeep on the Superior Hiking Trail. They spent 3 nights on trail.

- **Family Camp** keeps growing. Adults enjoyed learning about mead and cheese making from our chef Chris O'Brien. Kids dug dressing up and acting the role different characters in Voyageur Life class. They also liked making new friends from all over the country and interacting with them in classes and free time. A closing family style dinner followed by a slideshow of the week, s'mores, and singing was popular.

- The **Wolf Ridge farm** continues to inspire. "I want to farm," was stated by a farm camper. This summer 3 acres of land was cleared of trees and shrubs for crops - potatoes, brocolli, etc. In one week over 100 pizzas were made in the wood fired oven. The field manager position was extended past summer, to address rapidly growing harvest quantities and teaching. Fifteen students worked together to successfully pull our human powered plow.

- This August, Wolf Ridge reflected on 36 years of its history as **John Kohlstedt** entered the ranks of retirement. Huzzah! Huzzah! John AKA Crooked Finger, Moose Johnson, and Jacque LaRoche was a mentor and friend to many. The curriculum, trails, and Wolf Ridge philosophies will forever bear the markings of his practical values.

- More **staff changes** have occurred. Jessica Vance is our new office manager. Krysty Pirsig fills the role of office assistant left by Chris Kustritz's retirement as well as current store manager. Zach Bates is lead evening cook. Rikki Graskey joined the food service team as leading morning cook. Rosemary Evans is now the custodial head. Emily Coolidge is helping in both the food service and custodial departments. David Stieler filled John's position as curriculum coordinator. ♦

PROFILE: DAVID STIELER



David Stieler recently joined the Wolf Ridge staff as curriculum coordinator. He was a graduate naturalist/wildlife intern/mentor from 2010-2012. During the summers, David worked as Wolf Ridge staff serving as a “Naturalist on the Shore” at Gooseberry Falls State Park and later at Bluefin Bay Resort where he helped to kick-off those partnerships. David then went to UMD to complete his Master’s of Environmental Education degree. During this two-year period, he also served as the Partners in Education (PIE) Coordinator. PIE is a collaboration between the UMD education department, the Great Lakes Aquarium and MN Sea Grant focused on spreading Great Lakes literacy. After graduating, David worked at Camp Ewalu in Iowa. First David was a curriculum developer for their environmental education program. Then he became the Environmental Education Director, leading the programs he helped develop as well as running their high and low ropes course.

Tell our readers about something that you have learned as the result of your time or association with Wolf Ridge ELC. The number one lesson I learned from being at Wolf Ridge, as well as other places in life, is the tried and true Joe-ism that “Everything is always changing.” This is very true coming back to the Ridge where so much has happened since I left. There is a farm, new housing for the seasonal naturalists, the West Dorm is being renovated, new property on Lake Superior, a new spiral learning layout for the lessons plans, and...!

Please share a favorite Wolf Ridge memory. The most bizarre moment happened in my second year when the graduate naturalists hosted a Bird Prom. Everyone came dressed as a bird of their choice, which included face paint, feathers, and fancy clothes of all colors. There was music, games, and good food. Have you ever seen a loon play a game of ping-pong against a peacock?

Tell us about yourself. I am married to a former Wolf Ridge naturalist—Kati Kristenson, now Kati Stieler. We had our first child, Karsten, last year. My hobbies include many of the typical outdoorsy things. Some of the more unique hobbies I have include finding and photographing moths, learning songs of the Great Lakes sailors and lumberjacks, and I recently took up wood burning as a down-time activity. Last season, I joined a curling team in Grand Marais.

What book and/or movie would you recommend others read. As a fantasy/science fiction fan I would suggest the Dune series by Frank Herbert. It’s a great combination of political strife and personal challenges set on a planet of endless desert where everyone is trying to attain a precious resource there.

Please share a travel tip. If you are heading through northeastern Iowa, stop by Elgin, IA to visit the maize maze, a corn maze hand sketched on graph paper every year by the farmer who owns the land and hand planted square by square by some Amish and other volunteers in the area in order to get the shapes right. You can then swing into

Dotzy’s restaurant, a western-themed restaurant with a copper penny floor and walls decorated with pieces from an old barn. There you will probably want the southwest burger, which is about 8 inches tall and comes with eating instructions.



What is your favorite place at Wolf Ridge and why?

My favorite place at Wolf Ridge is the top of the south stairway. There is a beautiful view of Wolf Lake and so many adventures to choose from at that crossroads.

If you could visit with any conservationist/naturalist/environmentalist, living or dead, who would it be and what would you say. John Muir—who else would be crazy enough to climb up to the top of a tree in order to get a more first-hand experience of a windstorm! ♦

2017-18 SEASONAL NATURALISTS

Sam Anderson

Hometown: River Falls, WI
BS Biology & Chemistry
Northland College

Jenna Arvidson

Hometown: Eden Prairie, MN
BA Env Studies
Gustavus Adolphus College

Whistle Barkan

Hometown: Damascus, VA
BS Biology
U of IL - Urbana-Champaign

Erin Baumann

Hometown:
BA Env. Studies & Spanish
Gustavus Adolphus College

Allison Hren

Hometown: Cary, NC
BS Environmental Studies
Elon University

Samantha Kruger

Hometown: Brownfield, ME
BS Biology
Gordon College

Lyntausa Kuelh

Hometown: Beaver Creek, MN
BS Ecology & Env Science
MS Biological Sciences
South Dakota State University

Calvin Leitch Lodge

Hometown: Minneapolis, MN
BS Biology Education
Montana State U - Bozeman

Alicia Little

Hometown: St. Paul, MN
BA Environmental Studies
George Washington University

Maggie Noun

Hometown: Minneapolis, MN
BA Biology
St. Olaf College

Janessa Palmer

Hometown: Willmar, MN
BA Professional Journalism
U of MN - Twin Cities

Charles Pavlisich

Hometown: Clover Valley, MN
BA Biology, 2nd Ed License
The College of St Scholastica

Meg Quirk

Hometown: Eden Prairie, MN
BA Biology & Env. Studies
Gustavus Adolphus College

Alex Romano

Hometown: Osage, IA
BA Anthropology & Interdisciplinary Studies
Iowa State University

Rachel Sarette

Hometown: Coon Rapids, MN
BA Env Science & Mathematics
Northwestern University



John Kolhstedt (76) has retired from WR after 36 years! **Chris Kustritz (76)** retired from her job as WR receptionist in January. She has been busy traveling - Japan, the Black Hills, and most recently Germany for a boat/bike adventure and then on to Switzerland for some hiking. **Judy Gibbs (86)** along with Ron Morton received the NE MN Book Award in the non-fiction category for their book, *Jay Cooke State Park to Two Harbors: A Walking Guide to the Superior Hiking Trail*. **Shannon Walz (05)** had another baby boy, Oscar. **Eoghan O'Neill (12)** and **Jessie Austin (14)** got married. **Shane Steele (15)** and **Emma Spoon (16)** got married. Our mentor naturalists (2nd yrs.) had a busy summer at WR. **Sarah Bransford (16)** was the director of counselors and is currently found working at Camp Menogyn. **Rachel Enwright (16)** was a trip leader and now is a trail crew volunteer at Holden Village in WA. **Julia Luger (16)** was an academic naturalist. We can find her instructing at Nature Bridge - Yosemite. **Danielle Tikalsky (16)** was an academic naturalist and is aptly leading activities at Bluefin Bay. **Luciana Ranelli (15)** was a 3rd yr naturalist who lead the way in applying the spiral learning model to all of the WR curriculum. She is now studiously working on her masters at Antioch College in Keene, NH. **Class of 2017: Rory Anderson** spent the summer hanging with family and returns to WR as a mentor naturalist. **Mikki Brevig** also is a mentor naturalist and her summer had her working at WR as the on-site coordinator and naturalist on the shore. **Delaney Crawford** got married worked in a foster home for kids with special needs and now is a special education teacher at Pillager Middle School. **Nathan Cross** was the WR field manager and continues in this role through the fall. **Hannah Edstrom** had a busy summer traveling to Europe, tearing her thumb tendon, and working at Camp Ihduhapi. She joins us as a mentor naturalist. **Rosie Hesla** relaxed before joining the staff at a project based learning middle school in Brooklyn Center, MN. **Maria Keeler** was the farm manager at Round River Farm and continues this theme of work in the Farm to School community. **Lauren Kitrell** was a naturalist at Gooseberry State Park. **Jarrod Klopp** was a WR trip leader and now can be found working at Wilderness Canoe Base. **Erika LeMay** worked at the Whole Foods Coop in Duluth and is now interning at Hartley Nature Center. **Makaila Miller** stays at WR as a mentor naturalist after leading trips for the summer months. **Jack Minich** worked for the SCA in Washington, DC and CA. **Brooke Piepenburg** was the director of programming at WR and is now instructing at Deep Portage. **Linnea Pierson** was a WR trip leader and will land at Nature Bridge - Yosemite after a few months of (f)un-employment. **Emma Rohleder** was in WA as a summer camp instructor for the Wilderness Awareness School. She is back at WR as a mentor naturalist. **Emily Shosh** was involved with monarch watch as a rear-er and tagger of 150 monarch butterflies and began a star grazing tour business in the Potter County, PA area. ♦

MOST WANTED: COMMON TANSY

by Emma Rohleder, Wolf Ridge Naturalist

Early autumn at Wolf Ridge brings the finale of flowers: the late bloomers put in one last effort for pollination before winter sets in. Yellow spikes of goldenrod and purple stars of large-leaved aster thrive in harmony; they are related plants that increase each other's visibility to pollinators due to their color contrast. However, another more distant family member has moseyed into town. One that threatens to disturb this mutual flourishing.

The savory scent of camphor and rosemary fills the air. A chill runs up your spine. You know this smell - the unmistakable scent of *Tanacetum vulgare*. You look over your shoulder to see the flat-topped cluster of discs, like daisies plucked bare by an unrequited lover. They wave menacingly from the ditch at the side of the road. Its invasiveness and toxicity earned Common Tansy a spot on the MN DNR's list of noxious weeds to be controlled.

A noxious weed is considered harmful to human or animal health, the environment, crops, or other property. Species on this list must be controlled, which means efforts must be made to prevent their spread and reduce estab-

lished populations. *Tanacetum vulgare* alias "Common Tansy" AKA "Bitter buttons" is distasteful or toxic to livestock and can be fatal to humans if consumed in large quantities.



Common Tansy wasn't always regarded as an outlaw. The plant had respectable beginnings as a useful plant in its Eurasian homeland. Its aromatic chemical compounds repel crop-eating and biting insects, reduce fevers and kill intestinal parasites, prevent spoilage

in meats, and was used as a flavoring in baked goods and tea. However, high doses cease to be medicinal and reveal common tansy's deadly nature.



Common tansy is infamous for its quick spread into disturbed areas and is now present across most of the US and Canada. It lurks on roadsides, ready to hijack disturbed areas. It transforms these areas from productive wildlife habitats to fields of poisonous bitter buttons. If allowed to continue unchecked it will crowd out other species, including the native asters we enjoy here – which is why summer campers at Wolf Ridge are tasked with bringing back tansy, dead or alive, roots and all.

You, too, can be a vigilante for plant justice by controlling infestations on private property and by planting native species in gardens rather than exotic plants like tansy.♦



Summer Youth Campers collect tansy and Canada thistle (another invasive species at Wolf Ridge) to earn points for their group to win the conservation award.

ELIMINATING TANSY

Persistence is the key when it comes to removing tansy. Knowing that tansy spreads with both seeds and through its rhizomes helps in overcoming this invasive. A combination of physical and chemical control is the most effective means. Mowing can actually increase tansy patches. Handpulling, following by herbicide application is the most effective. Check with your local extension service for appropriate herbicides and timing for maximum control. Two-three years of this routine should eliminate this noxious bandit from your neighborhood.♦



PROGRAMS

SUMMER 2018

- Summer Sampler:** (2nd-5th gr) Aug 15-18
- Discoverers:** (4th-5thgr) June 24-30, July 8-14, July 15-21, July 22-28, July 29-Aug 4, Aug 5-11, Aug 12-18
- Voyageurs:** (6th-7thgr) June 24-30, July 8-14, July 15-21, July 22-28, July 29-Aug 4, Aug 5-11, Aug 12-18
- Adventurers:** (8th-9thgr) July 15-21, July 22-28, July 29-Aug 4, Aug 5-11
- Day Camp:** (1st-5thgr) June 25-29
- Sprouts Day Camp:** (2nd-3rdgr) June 25-29
- Green Energy Camp:** (4th-5thgr) Aug 5-11
- Voyageurs 2-wk Ultimate Survival:** (6th-7thgr) July 8-21
- Angling to Archery:** (6th-7thgr) Aug 5-11
- Wildlife Camp:** (6th-7thgr) July 22-28
- Girls Rock the Ridge Leadership Camp:** (6th-7th) Aug 12-18 NEW
- Farm, Feast, & Fire Camp:** (8th-9thgr) July 29-Aug 4
- Camp Rock Climbing:** (8th-9thgr) Aug 5-11
- Superior Service Learning Camp:** (10th-12thgr) Aug 12-18
- Credit Camp - Freshwater Ecology:** (10th-12thgr) July 15-28
- Credit Camp - Wilderness Ethics:** (10th-12thgr) July 29-Aug 11
- BWCAW Canoe 5-day:** (7th-8thgr) Aug 12-18
- Superior Hiking Trail 5-day Backpack:** (7th-8th) July 8-14 NEW
- Adventurers 2-wk BWCAW Canoe:** (8th-9thgr) July 8-21
- Adventurers 2-wk Isle Royale Backpack:** (8th-9thgr) July 15-28
- Adventurers Northwoods Kayak:** (8th-9thgr) Aug 12-18
- Jr Naturalists 2-wk Quetico Canoe:** (10th-12thgr) July 22-Aug 4
- Jr Naturalists 2-wk Apostle Islands Kayak:** (10th-12thgr) July 29-Aug 11
- Isle Royale Kayak Expedition:** (10th-12thgr) July 1-21
- BWCAW Traverse Canoe Expedition:** (10th-12thgr) July 1-22
- Family Camps:** (all ages) July 1-7, July 22-28, July 29-Aug 4
- Guided Family & Group Wilderness Trips:** Email david.butcher@wolf-ridge.org for ages, dates, & prices.
- Grandparent/Grandchild Grand Summer Adventure:** Aug 5-9 NEW



Visit our website at:
WOLF-RIDGE.ORG
 to learn more about these
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Wolf Ridge is an accredited residential environmental school for persons of all ages. We offer immersion programs which involve direct observation and participation in outdoor experiences. Wolf Ridge programs focus on environmental sciences, human culture and history, personal growth, team building, and outdoor recreation.

Our mission is to develop a citizenry that has the knowledge, skills, motivation, and commitment to act together for a quality environment.

We meet our mission by:

- Fostering awareness, curiosity, and sensitivity to the natural world.
- Providing lifelong learning experiences in nature.
- Developing social understanding, respect, and cooperation.
- Modeling values, behaviors, and technologies which lead to a sustainable lifestyle.
- Promoting the concepts of conservation and stewardship.