

# Winter 2018 – 19

December–January–February

## Nature Center

Mon – Tues, Thurs – Sat  
9 am – 3 pm

Closed Sundays & Wednesdays

## Hiking Trails

6 am – 8 pm daily

## Phone

414.527.0232

## email

DNRHavenwoods@wi.gov

## Address

6141 N. Hopkins Street  
Milwaukee, WI 53209  
1 block west of  
Sherman Blvd.

## Websites

[dnr.wi.gov/topic/parks/  
name/havenwoods/](http://dnr.wi.gov/topic/parks/name/havenwoods/)  
[www.friendsofhavenwoods.org](http://www.friendsofhavenwoods.org)

## Friends of Havenwoods

Become a member!



The Wisconsin Department of Natural Resources provides equal opportunity in its employment, programs, services, and functions under an Affirmative Action Plan. If you have any questions, please write to the Equal Opportunity Office, Washington, DC 20240.

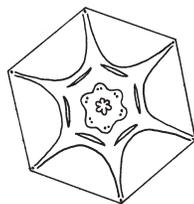
This publication is available in alternative format (large print, Braille, audiotape, etc.) upon request. Please call 414.527.0232 for more information.



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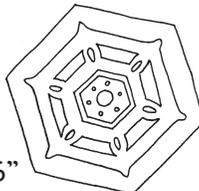
# Havenwoods State Forest

Not everyone is a fan of accumulating snow, but most agree that individual snowflakes are beautiful. Snowflakes form way up in the atmosphere. As they fall, the changing temperature and humidity of the air determines their sizes, shapes, and details. How many of these snowflake designs can you find this winter?



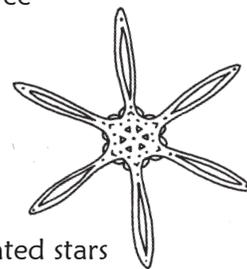
## plate

Six-sided, flat crystals  
1/100" to 3/16"  
across  
Fall separately



## stellar

Six-pointed stars  
1/32" to 1/2" across  
Form in low clouds where  
air is warm and moist  
Often interlock, forming  
giant snowflakes



## column

Six-sided columns  
1/64" to 1/8" across  
Form in cold, dry, high  
clouds



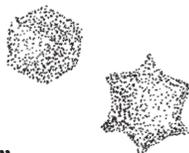
## needle

Long, slender, 6-sided crystals  
1/64" to 3/8" in length  
Most common snowflakes  
Drift to earth slowly, but  
shatter easily



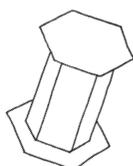
## graupel

Pellet snow  
1/16" to 1/4" across  
Form when plate or stellar  
crystals fall through a misty  
cloud and become covered  
with rime



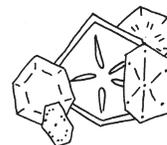
## powder snow

Dry bits with no real shape  
1/64" to 1/8" across  
Dry, cold flakes that rarely  
clump together



## tsuzumi

Drum-shaped flakes  
1/64" to 3/16" across  
Column forms in cold, dry air  
Plates are added in warm,  
wet air

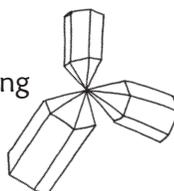


## asymmetrical

Form when plate-like  
crystals join  
Up to 3/8" across

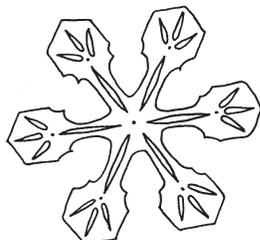
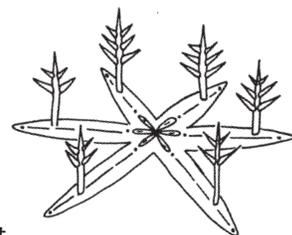
## bullet

Pointed columns  
that form during  
cold weather



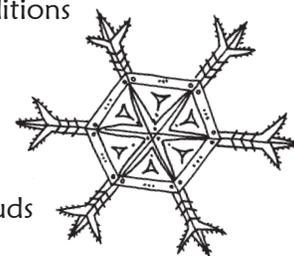
## spatial dendrite

Stellar crystals with  
branches  
Form from stellar  
crystals falling  
through different  
atmospheric conditions



## combination crystals

Large, spectacular crystals!  
Form as snowflakes fall  
through a variety of clouds

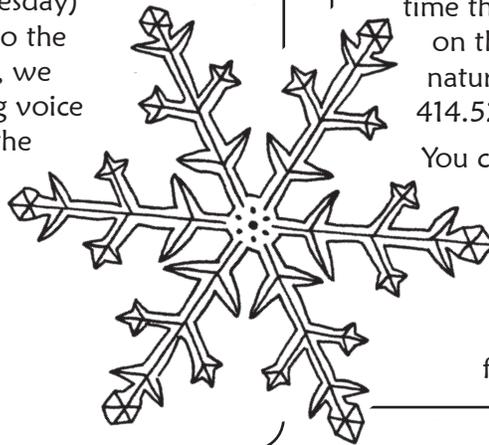


To see snowflakes any time, visit: [www.snowcrystals.com/photos/photos.html](http://www.snowcrystals.com/photos/photos.html)

## Nature Center Winter Hours

From December 1 to February 28, the nature center will have different hours. We will be open from 9 am – 3 pm Monday to Saturday (closed Sunday and Wednesday) due to reductions in staff and budget. If access to the nature center or staff is important for your visit, we suggest that you call ahead. We will be checking voice and email daily. Please use the information on the front page if you need to contact us. You can also message us via Facebook!

Remember the grounds remain open from 6 am – 8 pm every day all year. Havenwoods features 237 acres to explore, including about 6 miles of trails for hiking, cross-country skiing, snowshoeing, and jogging!



## Snowshoes!

You can borrow snowshoes to use at Havenwoods any time there is enough snow on the ground and the nature center is open. Call 414.527.0232 for details.

You can also borrow binoculars, field guides, GPS units, and other tools to help you explore this wonderful, urban forest. Ask us!

## Family Nature Hikes

Spend an hour with a naturalist on a family-friendly hike. We'll use magnifiers, binoculars, super-duper outdoor lookers, or other exploring tools to discover what's happening in nature.



### Jamming with Nature

December 1, 10:30 – 11:30 am (Saturday)

We'll take a short 15-minute hike, then come back to a campfire for storytelling, music with our junk band, and toasted marshmallows.

### Animal Signs Hike

January 5, 10:30 – 11:30 am (Saturday)

Havenwoods is home to many wild animals. Become a nature detective, looking for clues that these animals leave behind. We'll spend part of the time on an animal scavenger hunt. If there is enough snow, we have snowshoes you can use.

### Night Hike

February 16, 6 – 7 pm (Saturday)

The Forest is a different place at night. Join us on a walk to find animals moving about, listen for their sounds, and check out some winter constellations. We'll end up inside with cocoa. If there is enough snow, we have snowshoes you can use.

## GO! Discover

Families, friends, and youth groups are invited to head over to Havenwoods on the second and/or third Saturdays of each month. Drop in any time between 9 am and 3 pm to discover something new about nature.

### Winter Pastimes

December 8 & 15, 9 am – 3 pm (Saturdays)

What did people do in winter without smart phones, TVs, and video games? They made their own fun! Take a couple of steps back to life in the early 1900s. Play some games, make some toys, and head out on your own peaceful walk. We have snowshoes you can borrow if there is enough snow.

### Animal Tracks

January 12 & 19, 9 am – 3 pm (Saturdays)

Who left tracks in the snow? Drop in to learn how to identify tracks, walk like an animal, make note cards with tracks, and much more. Then grab a tracking field guide and head outside to discover who's been walking around Havenwoods.

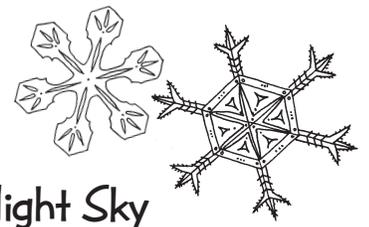
### Nocturnal Neighbors

February 9 & 16, 9 am – 3 pm (Saturdays)

Animals that are active during winter nights are specially adapted to be out in the cold. Find out who's out there while you are snug in your house and how they keep themselves warm. Take a hike on your own to find their homes and signs of their overnight activities.

# Adult Hikes

Adults and youth over 12 are invited to join a naturalist on these winter walks!



## Winter Birds

January 12, 10:30 – 11:30 am  
(Saturday)

Winter is a wonderful time to go bird watching. Leafless trees and a snowy landscape make it easier to find the birds. We will spend most of the time outside looking for sparrows, juncos, hawks, and owls. We have binoculars you can borrow.

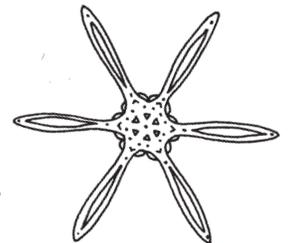
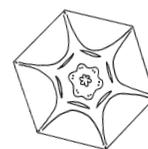
## Winter Tracking

January 22, 10:00-11:30 (Tuesday)  
Meet WDNR Wildlife Biologist Dianne to look for fresh signs of wildlife. Learn the keys to success when tracking wildlife and test your knowledge of Wisconsin's winter critters. Dress for the weather.



## The Night Sky

February 9, 6:30 – 8 pm (Saturday)  
Join us on an almost moonless night to hike and look at the stars. We'll find winter constellations and share some ancient legends about them. Dress for the nighttime chill! We have snowshoes you can use if there is enough snow.



# Nature Time for Preschoolers

We'll use stories, crafts, and activities to explore a different topic each session. These programs are for preschoolers, ages 3-5, and their parents, grandparents, or other adult. These programs are not for day care centers or organizations.

## Raccoons: Masked Faces & Ringed Tails

December 4, 9:30 – 10:30 am  
(Tuesday)

Raccoons wake up and search for breakfast after you go to bed. Find out about these nighttime neighbors.

## A Flurry of Snowflakes

January 15, 9:30 – 10:30 am  
(Tuesday)

Snowflakes . . . falling all around.  
Snowflakes . . . falling to the ground. Winter can turn water into wonderful icy designs!

## Follow My Footsteps

February 12, 9:30 – 10:30 am  
(Tuesday)

Footprints tell us about what animals are doing. Come learn about some animal tracks and find out "who went there."

## Evergreen Magic

December 18, 9:30 – 10:30 am  
(Tuesday)

During this season of tinsel and lights, explore the magic of real evergreens and their importance to nature. We'll even decorate a tree just for the animals.

## We Dig Groundhogs

January 29, 9:30 – 10:30 am  
(Tuesday)

What animal digs big holes, eats all summer, and sleeps all winter? If you guessed a groundhog, you're right! Come find out about these furry sleepers.

## Turtle Time

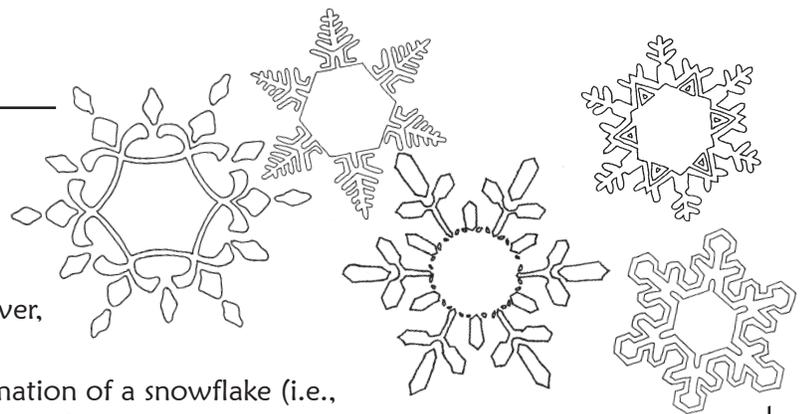
February 26, 9:30 – 10:30 am  
(Tuesday)

Can you imagine carrying your house everywhere you go? Come meet some turtles up close and find out how they do it.

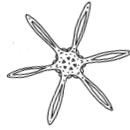
## Identical Snowflakes?

Snowflakes often look 'similar' to each other, And . . . if you could examine a large number of simple snowflakes under a high-powered microscope, you would—eventually—find two that look alike. However, that is not true for larger, more complex snowflakes!

Considering all the factors that contribute to the formation of a snowflake (i.e., temperature, humidity, speed, and time) AND all the possible ways that water molecules can attach to one another—the chances of two snowflakes being identical is highly unlikely. That's cool! When you stop to study a snowflake, you might be the only person in the entire history of the planet that will ever see a snowflake that looks exactly like the snowflake on your mitten!



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WI Dept. of Natural Resources  
6141 N. Hopkins Street  
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## Nature in Your Backyard

Snow crystals form in clouds where the temperatures are between  $32^{\circ}$  and  $-39^{\circ}$  F. Up in these clouds, super tiny particles of dust and sea salt attract super tiny drops of water. As water molecules gather on the dust or salt, they freeze. A snowflake is born! Here is one snowflake's life story.

