



# PHOEBE NEEDLES CENTER, INC.

732 Turners Creek Road  
Callaway, Virginia 24067-5814  
(540)-483-1518  
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www.PhoebeNeedles.org

## "WHY DOES VIRGINIA TERRAIN AND PLANT LIFE LOOK LIKE IT DOES? - ANSWER, GEOLOGY"

November 9, 2021

10:00 a.m. to 12:00 p.m.



Rick Watson will present: "Why Does Virginia Terrain and Plant Life Look Like it Does? - Answer, Geology."

A brief overview of the geologic history of the earth as it pertains to Virginia will show how plate tectonics induced multiple intervals of mountain-building, erosion and deposition over the last billion years has created the landscape and near surface materials that currently make up the 5 physiographic provinces of the state. Some of the types of plant eco-systems called "natural community classes" that overlap these physiographic provinces will be explained. Local examples of some of these communities,

like Bald Knob, near Rocky Mount will be discussed. Those who attend should increase their working knowledge of the environment they live in and interact with daily and should come away with a clearer explanation of why "things are like they are," well, at least natural things!

Watson obtained a Bachelor of Science degree in Geo-mechanics from the University of Rochester and a Master of Science degree in Geological Engineering from the University of Arizona. He worked with Shell Exploration and Production based in New Orleans, where he held numerous engineering and management positions before retiring. During his career, he worked closely with scientists and engineers dealing with the technical and engineering aspects of exploring for and developing oil and gas reservoirs in offshore and land environments. He has lived and worked in Canada, Scotland, Syria and the U.S. Since retiring, he has been an active member of the Virginia Master Naturalists, Blue Ridge Foothills and Lakes (BRFAL) chapter for eight years.

PLEASE  
REGISTER  
AND PAY IN  
ADVANCE!

PayPal

*Please join us for a great program, fellowship, and invite a friend!*

## "WHY DOES VIRGINIA TERRAIN AND PLANT LIFE LOOK LIKE IT DOES? - ANSWER, GEOLOGY"

November 9<sup>th</sup>

(To register, please complete this form and return it to the Center by Friday, November 5<sup>th</sup>)

Name \_\_\_\_\_ Spouse/Guest \_\_\_\_\_  
(Please include the Rev., Dr., Mr., Mrs., Ms., Miss)

Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip Code \_\_\_\_\_

Daytime Telephone Number \_\_\_\_\_ Email Address \_\_\_\_\_

Mobile Phone Number \_\_\_\_\_

Unless otherwise informed, Phoebe Needles Center, Inc. will consider your registration as permission to use your photograph if it appears in video or still photos including our web site unless otherwise requested.

## IMPORTANT INFORMATION!

To make a reservation, please return the form at the bottom of the first page, call the office at (540)483-1518, or email [PNCenter@gmail.com](mailto:PNCenter@gmail.com). Please make your reservations no later than the Friday before the event.

You are welcome to arrive at McCauley Hall for a coffee social at 9:30 a.m. prior to the event. The event will start at 10:00 a.m. Lunch starts at approximately 12:00 p.m. The cost of the program plus lunch is \$10.00 for members and \$18.00 for non-members. YOU **MUST** call ahead and make a reservation if you plan to attend the CLL in person at Phoebe Needles Center.



You may pay in advance using **PayPal** on our website: [www.PhoebeNeedles.org](http://www.PhoebeNeedles.org).



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