

26TH ANNUAL PINELANDS SHORT COURSE

SATURDAY, MARCH 14, 2015



THIS YEAR:

- 20 NEW Courses!
- Family Friendly Courses!
- Discover Stockton's Lake Fred!



STOCKTON
NEW JERSEY'S
DISTINCTIVE
Public College

Deep Run in Wharton State Forest courtesy of Joel M. Mott

QUESTIONS REGARDING REGISTRATION?

Please call 609.652.4227

QUESTIONS REGARDING CONTENT OF THE SHORT COURSE PROGRAM?

Please call NJ Pinelands Commission
at 609.894.7300, ext. 125

To register online: stockton.edu/continuingstudies

By mail send this form WITH PAYMENT to:
The Richard Stockton College of New Jersey
Attn: Continuing Studies
101 Vera King Farris Drive
Galloway, NJ 08205



CLIP & RETURN

CLIP & RETURN

2015 PINELANDS SHORT COURSE REGISTRATION FORM

SATURDAY, MARCH 14 • THE RICHARD STOCKTON COLLEGE OF NEW JERSEY

Register ONE PERSON per form. Please copy the form for additional registrants. PLEASE PRINT CLEARLY AND COMPLETELY.

NAME _____ DATE OF BIRTH _____

STREET ADDRESS _____ CITY, STATE, ZIP _____

PHONE _____ E-MAIL ADDRESS _____

Enclose check, money order or purchase order payable to Stockton College

IMPORTANT INFORMATION

**CONFIRMATIONS WILL BE SENT BY EMAIL ONLY
LIST YOUR THREE TOP CHOICES FOR EACH PERIOD.**

If you do not indicate second and third choices, they will be selected for you.

Workshops will be assigned on a first-come, first-served basis.

We will email your course confirmation by March 6 by email only.

Cancellation policy: NO REFUNDS

Bring your own lunch or our food court.

Dunkin Donuts will be open in the morning.

REGISTRATION: CHECK ONE

- Adult \$40
-or-
 Senior (65+) Student \$35

REGISTER ONLINE:

stockton.edu/continuingstudies

Coupon code PNLD26

For Seniors (65+) & Students

FINAL REGISTRATION DEADLINE! Monday, March 2 at 4:00 P.M.

	9:00 a.m. to 10:15 a.m.	10:30 a.m. to 11:45 a.m.	1:00 p.m. to 2:15 p.m.	2:30 p.m. to 3:45 p.m.
FIRST CHOICE				
SECOND CHOICE				
THIRD CHOICE				

FOR OFFICE USE ONLY: Date Received _____ Date Processed _____

OVERVIEW/ECOSYSTEM

LURE OF THE PINE BARRENS

Ted Gordon, Pine Barrens Botanist, Historian, Guide, & Photographer

This presentation will take attendees on a pictorial journey through the New Jersey Pine Barrens in its seasonal aspects. The presenter will focus on the unusual as well as common flora and fauna of diverse habitats, from quaking bogs and cedar swamps to pygmy pines. Further emphasis on the people, traditions, historic sites, and "lost" and "forgotten" towns provides a balanced overview of this enigmatic region.

A PHOTOGRAPHIC JOURNEY INTO THE PINELANDS NATIONAL RESERVE

Albert D. Horner, Fine Art Photographer

See the Pinelands through the eyes of a fine art landscape photographer. Stunning images of some familiar and not so familiar locations photographed under optimal conditions. This presentation includes facts about the Pinelands along with photographs of its flora and fauna. The end of the presentation will expose the destruction being created by the illegal use of off-road vehicles within our public lands and what we all can do about it.

PINELANDS STREAM-WATER QUALITY AND AQUATIC COMMUNITIES

Robert A. Zampella, Ph.D., Retired Chief Scientist, Pinelands Commission

This presentation will review the natural and human-related factors that determine Pinelands stream-water chemistry, the chemical characteristics of "pristine" and degraded waters, and the effect that water quality has on aquatic communities, including those composed of fish, frog, invertebrate, aquatic-plant, and diatom species. (**Technical Scientific program**)

WETLANDS AND HYDROLOGIC GRADIENTS (NEW)

Robert A. Zampella, Ph.D., Retired Chief Scientist, Pinelands Commission

This presentation will describe common plant species associated with different wetland types and their occurrence along hydrologic gradients represented by variations in ground- and surface-water levels.

USING GIS TO IDENTIFY THE PATTERNS OF LAND USE CHANGE IN THE PINELANDS DURING THE PAST TWO DECADES (NEW)

Dr. Weihong Fan, Professor of Environmental Science, Richard Stockton College

New Jersey land resources have been managed, or mismanaged in some cases, as a result of urban sprawl, especially near the Pinelands Area. In this workshop, we will identify the location, direction, and the trend of the land use changes; quantify the changes; and evaluate the changes in the context of New Jersey Smart-Growth strategies using GIS technology. We will focus on the loss of forested areas and wetlands from 1995 to 2007 and their conversions using the Barnegat Bay Watershed as an example.

LANDUSE PLANNING FOR BARNEGAT BAY (NEW)

Dr. Stan Hales, Director, Barnegat Bay Partnership

The majority of Pinelands watersheds drain into the Barnegat Bay, but portions of these river drainage basins lie outside the Pinelands National Reserve. Changes in land use within the Barnegat Bay watershed have altered the bay's water quality and ecosystem. This presentation will examine the impacts of development on the Barnegat Bay and how coastal land use planning is the key to protecting its water quality and natural resources.

A TRIP DOWN THE GREAT EGG HARBOR RIVER (NEW)

Michael Hogan

Take a photographic trip down the 50-mile Great Egg Harbor River, from its headwaters in Berlin, to the Great Egg Harbor Bay. Learn about the Great Egg's history, ecology, access and locations to canoe, hike, bird and photograph.

FROM THE LENS: LEARNING TO APPRECIATE THE PINELANDS THROUGH PHOTOGRAPHY (NEW)

Ann-Marie Woods

Ride along with Ann-Marie as she takes you on her trek through the Pinelands, making photography the first resource in defining her interests and wonders in the unique and amazing Pinelands natural world.

WASTE MANAGEMENT/RECYCLING IN THE PINELANDS (NEW)

Rick Dovey President, Atlantic County Utilities Authority

A look at the history of waste disposal and its management through the years in the Pinelands. The program will focus on the problems of trash disposal and other wastes in the Pinelands region, given its unique environmental attributes. In addition, the presentation will outline what has changed since the passing of the NJ Solid Waste Management Act and the Pinelands Comprehensive Plan in the 1980s. An overview of dumps, ground water pollution, and today's County solid waste and recycling systems operating in the Pinelands.

WILDLIFE

NEW JERSEY'S BIODIVERSITY: NORTH VS. SOUTH

Blaine Rothauser

Why is the fourth smallest state in the nation ranked at the top in species diversity? Rothauser, a photographer and environmental consultant, will emphasize the importance of New Jersey's rich natural heritage through a fascinating array of wildlife imagery in NJ's remote natural areas. One session will focus on **North Jersey** and one session will focus on **South Jersey**.

FROM TIDAL FRESHWATERS TO THE OCEAN: FISHES OF THE MULlica RIVER – GREAT BAY ESTUARY (NEW)

Kenneth W. Able, Rutgers, Institute of Marine and Coastal Sciences

The kind and number of fishes vary along the gradient of salinity from the freshwater in the Mullica River to salty waters in Great Bay. This visual survey will characterize the resident and migratory fishes from larvae to juveniles and adults, the habitats they use along this gradient, and how they change with the seasons. This overview is based on over 25 years of intensive studies by Rutgers University marine Field Station scientists.

"KNOW THE BEAR FACTS"/BLACK BEARS IN NEW JERSEY

Michelle Smith, Biologist, NJDEP Division of Fish and Wildlife

This engaging program covers the natural history and biology of bears in the Garden State and the results of past and current black bear research and management work. It also includes practical information on coexisting with black bears, which includes safety tips.

The program includes an audio/visual presentation and show-and-tell items like "bear dens" for children to climb into and "hibernate."

PINELANDS FROGS AND TOADS

John Bunnell, Chief Scientist, New Jersey Pinelands Commission

This presentation will cover the distribution, reproduction, habitat preferences, and vocalizations for the frog and toad species found in the largest stream system in the Pinelands: the Mullica River Basin.

THE NEONATE ECOLOGY OF THE NORTHERN PINE SNAKE (NEW)

Dr. Kevin P.W. Smith

The northern pine snake is a state-threatened species in New Jersey. They are a cryptic species, difficult to find due to their camouflage as well as their tendency to spend time underground. We will discuss some of the research techniques used to investigate the little-known life stage of the northern pine snake, including radio telemetry and chemosensory behavior tests. These methods come together to help us describe what we've previously never been able to observe.

SEA CREATURES WITH AMAZING FEATURES (NEW)

Kaitlin Gannon, The Wetlands Institute, Outreach Coordinator

Participants will use all of their senses and their imagination to discover the wet world of water animals. Following a fun and interactive explanation of the local sea animals we bring, participants will get hands-on time with them. We will bring sea stars, sea urchins, hermit crabs, spider crabs, green crabs, clams, sea snails and a horseshoe crab

RAPTORS OF NEW JERSEY

Denise Peters, Education Director, and Erin Kiefer, Naturalist, Woodford Cedar Wildlife Refuge

This engaging presentation will introduce you to the many kinds of raptors that are regularly found in NJ. We will highlight the keys to identify each species while delving into the natural history of raptors. Live raptors will be present to view up close.

DRAGONFLIES & DAMSELFLIES OF THE PINELANDS

Jennifer Bulava, Park Naturalist

Discover the fascinating lives of dragonflies and damselflies found in the NJ Pinelands. This PowerPoint presentation will focus on local species diversity, behaviors, life cycles, and the ecological significance of these beneficial insects, updated with 2014 data and photography.

BIRDING 101, LEARNING THE BASICS OF BIRDWATCHING (NEW)

Susan Puder, Author, Photographer, and President of the Southern Ocean Birding Group

Learn about how to identify birds, why New Jersey is such an important state to view birds, what equipment you would need, hot spots in the area to see birds, and spring migration, one of the great migrations in the world, right here in New Jersey. The program is for both beginning birders and those wanting to learn more about this fast growing outdoor activity.

INVESTIGATING THE PYGMY FOREST (NEW)

Terry O'Leary, Resource Interpretive Specialist

Take a virtual field trip to the heart of the Pine Barrens to explore the characteristic plants and animals of this unique area. Learn about the contributing factors, land use, and fire ecology of the West Plains, East Plains, Little Plains, and Spring Hill Plains.

PINELANDS LICHEN ECOLOGY (NEW)

Natalie Howe, Graduate Student, Rutgers University Ecology and Evolution Program

This presentation will provide a brief overview of the common lichen communities in the Pinelands. Howe will describe her research on how soil lichen mats influence the soils beneath them, and she will discuss the impacts of lichen on soil chemistry, decomposition rates, and the arthropod communities living inside the soil.

ATLANTIC WHITE-CEDAR: YESTERDAY, TODAY, AND TOMORROW

George Zimmermann, Professor Environmental Studies Program, Richard Stockton College of New Jersey

Atlantic white-cedar is a globally-threatened species that has been of central importance to the landscape and ecology of the Pinelands. This presentation will explore the current research on the ecology and interaction of the species, while also delving into efforts to restore white-cedars in light of mounting factors that are causing more losses than gains in acreage not only in New Jersey but along its natural range from Maine to Florida and along the Gulf.

CHILDREN OF THE EARTH FOUNDATION: WILDERNESS SURVIVAL FUNDAMENTALS (NEW)

Andrew Hov, Program Manager, Children of the Earth Foundation

There are few pieces of knowledge more empowering, satisfying, and potentially important than the ancestral skills of how to stay alive in the woods. This information is just as applicable in the Pine Barrens, where its renaissance largely began, as it is across the world. Join us for a look at basic survival skills, known by some as "the sacred order," including shelter construction, water collection and purification, friction fire and finding food.

HISTORY/CULTURAL

BATSTO THROUGH THE YEARS

Barbara Solem and Wesley Hughes, Batsto Citizens Committee, Inc.

Batsto Village has a long history that dates back to pre-Revolutionary War times, when iron was king. The Village is the site of a former bog iron- and glass-making industry. It was later purchased by Philadelphia industrialist Joseph Wharton, and it comprises the core of the Wharton State Forest. Step back in time and discover the many stories that wind through this historic site.

THE BATTLE OF CHESTNUT NECK (NEW)

Rev. Norm Goos – President, & Earl Cain – Secretary & Historian, Col. Richard Somers Chapter – S.A.R.

This presentation will describe the only Revolutionary War battle that occurred in Atlantic County. On October 6, 1778, more than 1,600 British troops attacked and burned the village of Chestnut Neck. As a major privateering center, millions of dollars of captured British ships and supplies traveled through this tiny port on the way to be auctioned.

ESTELL MANOR PARK

Michael Hogan

Participants in this presentation will learn about the history and ecology of the 1,700-acre Atlantic County Park. This includes the history of the glassworks in the 1800's and the large Belcoville munitions plant built during World War I to the current Atlantic County Park. The presentations will also delve into the many miles of trails, historic ruins, the park's large diversity of plants and animals and places for birding, and photography.

THE JERSEY DEVIL AND THE ORIGINS OF NEW JERSEY (NEW)

Dr. Brian Regal, History of Science, Technology & Medicine, Department of History, Kean University

The Jersey Devil is more than just the legend of a dragon wandering the Pine Barrens: it is part of the very fabric of the origins of New Jersey and America itself. This talk will cover the real story of the Garden State's favorite monster and its birth in the milieu of the bare-knuckled political and religious drama of colonial New Jersey.

LOST TOWNS OF THE PINES (NEW)

Ted Gordon, Pine Barrens Botanist, historian, Guide, & Photographer

The diverse landscape of the Pine Barrens reflect a history of economic ventures. Remains of dams and raceways of early saw mills and gristmills are scattered throughout the region. Iron furnaces and forges, paper mills and cranberry-blueberry

villages are indelibly etched into the landscape. We will "visit" such enchanting sites as Double Trouble, Calico, Estellville, Friendship, Eagle, Hampton Furnace, Sheep Pen Hill, Wells Mills, Makepeace, Florence at Whitesbog, Sims Place, Bulltown, and Tub Mill.

STILL DAYS: A BIOGRAPHICAL PRESENTATION ON DR. JAMES STILL (NEW)

Paul W. Schopp

Dr. James Still, often referred to as Black Jim or the Black Doctor of the Pines, yearned to be a physician from the age of 5, but as a man of color, he knew he would never succeed at becoming a doctor through traditional training. He taught himself medicinal botany and developed ointments, salves, and other treatment using botanicals.

PINELANDS JETPORT REVISITED (NEW)

Timothy G. Hart, Division Director, Ocean County Cultural and Heritage Commission

The proposal to construct the Pinelands Jetport can be seen as the prime motivation to preserve what is arguably the most important ecological resource between Boston and Richmond. Everyone attempting to preserve our Pinelands, from McPhee to the National Geographic articles, talks about the Jetport. But few have actually read the proposal or seen the diagrams. Through the rediscovery of the original report, the program will revisit the actual proposal through illustrations and diagrams.

LENAPE LIVING IN THE PINES (NEW)

Ginette Day, Burlington County College's Pinelands Institute for Natural & Environmental Studies, Instructor

Consider our past and present connections to the earth during this presentation on the native Lenape people and the Pine Barrens resources they would have used for survival during the late woodland period. An interactive program where you will grind dried corn into flour, try your hand at traditional games, prepare a headache remedy from pine needles and poultice from Cranberries.

MUSIC

THOMAS WESLEY STERN (NEW)

Thomas Wesley Stern, Members: Gary Mayer, Joseph Makowiecki, James Black, James Herdman, and Robert Jackson

"Thomas Wesley Stern is a band from the Pine Barrens of New Jersey, a densely wooded forest of winding sandroads and rich cedar streams. Taking a cue from traditional American folk music, but never sticking strictly to it, the members of Thomas Wesley Stern weave original songs around classic melodies and instruments. Violin and standup bass compliment the banjo and guitar, while the boys harmonize in a rustic hum. Playing original and traditional American music, Thomas Wesley Stern harkens back to a simpler time we assume was better, but insists the best is yet to come." - Country Living Magazine

TUNES & TALES

Valerie Vaughn

A multi-talented musician and educator from Tuckerton, NJ, Vaughn specializes in writing acoustic tunes that cover the rich folklore and the history of the people and places of South Jersey.

FIELD TRIP

BIRDING THE PINELANDS OF RICHARD STOCKTON COLLEGE (NEW)

John D. Rokita, Principle Lab Tech. Animal Lab & Collection Room Facilities, Richard Stockton College of NJ

An in-depth look into the avian species that inhabit the college campus. We will spend a portion of class time examining taxidermy mounts and study skins from the college's ornithology collection. The remainder of the class will be spent outdoors identifying as many bird species as possible. Please bring a sense of curiosity, proper attire (warm clothing), sturdy, comfortable shoes (possibly rain gear) and binoculars and a field guide if you have them.

GET YOUTH HOOKED ON FISHING

For Children and Their Chaperones

Liz Jackson, NJDEP Division of Fish and Wildlife, HOFNOD Coordinator

Hooked on Fishing- Not on Drugs encourages school-aged youth to avoid tobacco, drug and alcohol usage by providing them alternative activities that involve learning to fish, appreciating aquatic and environmental resources, and developing positive life skills. This introductory session models a few lessons and activities from the program. The session also highlights how schools and organized youth groups can get involved and become eligible for program funding and support.

2015 PSC - MARCH 14, 2015			
9:00 - 10:15	10:30 - 11:45	1:00 - 2:15	2:30 - 3:45
Lure of the Pine Barrens	Photographic Journey	Photographic Journey	Lost Towns
 Raptors of NJ	 "Know the Bears"	 Sea Creatures Features	 Sea Creatures Features
The Jersey Devil and the Origins of New Jersey			
 Birding 101	 Birding 101	Neonate Pine Snakes	Neonate Pine Snakes
Investigating the Pygmy Forest			Atlantic White-Cedar
Frogs & Toads	North Jersey Bio Diversity	South Jersey Bio Diversity	
Wilderness Survival Fundamentals	Waste Management/ Recycling in the Pinelands	From the Lens	From the Lens
Estell Manor Park	Batsto Through the Years	Batsto Through the Years	Down the Great Egg Harbor River
Wetland & Hydrologic Gradients	Water Quality & Aquatic Communities	JetPort	JetPort
 Landuse Change through GIS	Lichen Ecology	Battle of Chestnut Neck	Battle of Chestnut Neck
Fishes of the Mullica River/Great Bay Estuary	Still Days	Still Days	
 Lenape Living	 Lenape Living	Dragonflies & Damselflies	Dragonflies & Damselflies
Tunes & Tales			 Thomas Wesley Stern
Birding at Stockton - Lab Tour/ Lake Fred Hike - max of 15 people			 Family Fishing - max of 25 kids

HOW TO REGISTER ONLINE:

Visit stockton.edu/continuingstudies and click on **26th Annual Pinelands Short Course**.

Click the **register button** and follow the steps below:

1. In the Search box choose Continuing Ed Jul'14-Jun'15 from the drop down box.
2. Leave the second box empty, click on the magnifying glass.
3. Hover the cursor over the course of your choice and click on the plus sign that will appear.
*****You MUST choose 26th Annual Pinelands Short Course first*****
4. After making all of your selections, click on the register button found on the lower right hand side of the screen.
5. Create a new account or sign in with your Stockton "Z" number and pin number.
6. Add coupon code PNLD26, if applicable, on the lower left-hand side of the screen.
7. Click Proceed to Payment on the lower right-hand side of the screen.
8. Click Proceed to Payment on the lower right-hand side, again.
9. Click Submit payment on the lower right-hand side.
10. Follow prompts to make payment by credit card or check.

***If you have already registered within the Stockton community for any Stockton event, start by entering your "Z" number and pin on the right side of the screen. Then follow the steps above, omitting step 5 which will not be an option.**