

An illustration of a tree trunk on the left and a bird with a red head and white body on the right. The bird is looking towards the right. A white speech bubble is positioned above the bird, containing the event title.

**29TH ANNUAL
PINELANDS
SHORT COURSE**

SATURDAY, MARCH 10, 2018
Hosted by Stockton University

A day long event featuring educational presentations that
explore the unique history, ecology, and culture of the Pinelands.

5 Professional Development Credits Available for Educators

Artwork provided by our 2017 contest winner
MAX AINSWORTH from **NORTHERN BURLINGTON COUNTY REGIONAL HIGH SCHOOL.**

STOCKTON | CONTINUING
UNIVERSITY | STUDIES
NEW JERSEY'S DISTINCTIVE PUBLIC UNIVERSITY



QUESTIONS REGARDING REGISTRATION?

Call 609.652.4227

QUESTIONS REGARDING CONTENT?

Call NJ Pinelands Commission at 609.894.7300, ext. 125

To register online:
stockton.edu/pinelands

To register by mail:
SEND THE FORM BELOW WITH PAYMENT TO:
Stockton University | Continuing Studies
101 Vera King Farris Drive
Galloway, NJ 08205

YOUR ITINERARY WILL BE EMAILED TO THE ADDRESS PROVIDED

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

Bring your own lunch or purchase Pinelands inspired food at our food court.
Dunkin Donuts will be open in the morning.

**FINAL REGISTRATION DEADLINE
March 2, 2018**

Cancellation Policy: NO REFUNDS

REGISTRATION STARTS AT 7:45 A.M.			
9:00 - 10:15	10:30 - 11:45	1:00 - 2:15	2:30 - 3:45
Pinelands Weather and Climate	Pinelands Weather and Climate	The Jersey Devil	Citizen Mosquito Control
Primitive Survival Skills	Primitive Survival Skills	Beaches, Breakers, and Bays	Beaches, Breakers, and Bays
Protection Act	Excavating Cedar Bridge Tavern	Cranberry and Blueberry Research	Pine Barrens Rivers
A Year of Birds	Plants of the Pinelands	Dr. James Still	
Lure of the Pine Barrens	Pine Barrens Time Machine	Pine Barrens Time Machine	Lure of the Pine Barrens
Carnivorous Plants	Carnivorous Plants	Teaching the Pinelands	Teaching the Pinelands
Jersey-Friendly Yards	The Batona Trail	Jersey-Friendly Yards	The Batona Trail
Coastal Flooding Events	Bald Eagle Project	Coastal Flooding Events	Bald Eagle Project
Frogs and Toads	Ghost Forests	Skull ID	Skull ID
Great Egg Harbor River Watershed	Rain Gardens, Can You Dig It?	Rain Gardens, Can You Dig It?	Mullica River Watershed
Forestry 101	Measurements and Management	Moths of the Pine Barrens	The Great War
A Pine Barrens Introduction	Life that Glows	Life that Glows	Double Trouble Village
		Denizin Pine	The Pitch Pines
Wildlife Refuge Birding and Nature Walk Trip			
Fire Ecology Van Tour		Fire Ecology Van Tour	
Ghosts of the Wading River Van Tour		Ghosts of the Wading River Van Tour	
Birding Stockton University		Ecological Forest Management Walking Tour	
		Trends in Biodiversity Field Walk	

11:45 - 12:45 • Lunch

For questions about accessibility or to request an accommodation, please contact the Office of Event Services and Campus Center Operations at 609.652.4878 or event.services@stockton.edu at least 5 business days in advance of your participation or visit.

CLIP & RETURN

CLIP & RETURN

2018 PINELANDS SHORT COURSE REGISTRATION FORM

SATURDAY, MARCH 10 • STOCKTON UNIVERSITY

Register ONE PERSON per form, copy the form for additional registrants.

NAME _____ DATE OF BIRTH _____

STREET ADDRESS _____ CITY, STATE, ZIP _____

PHONE _____ E-MAIL ADDRESS _____

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

	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.
1ST CHOICE				
2ND CHOICE				
3RD CHOICE				

If you want to attend the same courses as someone, write their name(s) below. We will do our best to accommodate your request.

REGISTRATION FEE: CHECK ONE

- Adult \$50
- Senior (65+) \$45
- Student \$45

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.

PINELANDS WEATHER AND CLIMATE: PAST, PRESENT AND FUTURE

Dr. David A. Robinson, New Jersey State Climatologist

This presentation will focus on the weather and climate of the Pinelands, exploring events and issues on short- to long-time scales. It will bring the issue of global climate variability and change home to New Jersey, answering questions as to where we have been and where we may be headed. Our capabilities to monitor NJ's weather and climate will also be discussed.

THE GEOLOGICAL AND LAND USE HISTORY OF PINE BARRENS RIVERS

Dr. Claude Epstein, Professor Emeritus, Stockton University

Pine Barrens rivers look different from other South Jersey rivers. This is due to the region's unique geologic history, from the breakup of the world continent (Pangaea) to the present time. Most of the landscape alterations occurred due to human activity. This talk is the story of those rivers' history.

NEW! COASTAL FLOODING EVENTS: CAUSES, FORECASTING, AND THE IMPACT ON PINELANDS ESTUARIES

Chris Huch, Community Resilience Specialist, Jacques Cousteau National Estuarine Research Reserve

The program will discuss storm surge events and sea level rise. Participants will learn the factors that determine storm surge, major and minor inputs of sea level rise, why there is a variety of different ranges of sea level rise forecasts, and how sea level rise and storm surge impact Pinelands estuaries in the short and long term.

NEW! A PINE BARRENS INTRODUCTION

Andrew Anderson, State Park Service

This virtual field trip is a visual introduction to the New Jersey Pine Barrens, an overview touching on the region's unique ecology, culture, history and folklore. Through colorful slides and anecdotes, you'll visit some of the most popular ghost towns and other unusual sites of South Jersey.

NEW! RAIN GARDENS. CAN YOU DIG IT?

Emma Melvin, and Sarah Johnson from the American Littoral Society

Learn to lessen the impact your home and lawn has on local creeks and wetlands. Sustainable landscaping practices can allow you to manage storm water, limit pollution washing off your property and provide wildlife habitat. You will learn aspects of designing and installing a rain garden, as well as other green practices such as rain barrels and cisterns, xeriscaping and low-input lawn care.

NEW! TEACHING THE PINELANDS

Keely Ditzo, Teacher of Agriculture

This presentation will describe techniques teachers can use to bring the Pinelands into their classroom.

NEW! INTRODUCING PRIMITIVE SURVIVAL SKILLS

Joseph Harvey, Lead Instructor, Children of the Earth Foundation

If you suddenly found yourself in a remote wilderness, would you know how to keep yourself alive? Basic wilderness survival skills will be discussed, illustrated and demonstrated. The information included in this course is applicable in many bioregions, including the Pine Barrens where Tom Brown Jr. lived and practiced them for many years. There will be a bow drill fire making demonstration, if weather permits.

NEW! THE BATONA TRAIL – THE PREMIER WALKING PATH OF THE PINELANDS

Rosemarie Mason and Diane Mason

This presentation will provide a brief history of the Batona Trail, including a description of access points and campgrounds along the 52.7-mile trail. Learn what to pack for a day hike, how to reserve a camping site, and discover easy loop hikes that incorporate the highlights on the Batona, including Pakim Pond, Batsto, Tea Time Hill, Ong's Hat, Apple Pie Hill and the Franklin Parker Preserve.

WILDLIFE

NEW! CARNIVOROUS PLANTS OF THE PINE BARRENS

Terry O'Leary, Resource Interpretive Specialist

Attendees will get an in-depth look at the fascinating world of plants that eat insects: sundews, pitcher plants and bladderworts. Find out about the unique trapping mechanisms of carnivorous plants, and their adaptations to flourish in low-nutrient, acidic, saturated soils. Learn how and where to locate carnivorous plants.

NEW! PLANTS OF THE PINELANDS

Marilyn Sobel, Research Scientist, New Jersey Pinelands Commission

Sobel will discuss the ecology of rare and unusual plants of the New Jersey Pinelands, including orchids, carnivorous plants, and locally-restricted plants such as Knieskern's beaksedge. The talk will include potential threats to local populations and general habitat characteristics that are important elements of plant conservation.

NEW! JERSEY-FRIENDLY YARDS IN THE PINELANDS

Karen Waizer, Barnegat Bay Partnership

There are many reasons to plant native species anywhere you live. Your yard is part of the wider landscape, and it can be a haven for native Pinelands plants and the animals that depend on them. Learn how to use the Jersey-Friendly Yards website to search for plants that will thrive in your landscape and make a positive contribution to the Pinelands ecosystem.

NEW! FORESTRY 101 – AN INTRODUCTION

John Hooven, Vice president, New Jersey Forestry Association

What is forestry? How does forestry affect you? Why manage a forest? Learn about these things and more in Forestry 101 – An Introduction to forestry for the homeowner, landowner and forest enthusiast. Take the first step on the path toward becoming a good forest steward!

PINELANDS FOREST MEASUREMENTS AND MANAGEMENT

Bernard Isaacson, Forester, NJ Department of Environmental Protection, State Forestry Services

Learn the what, why, and how our forests are measured, monitored, and managed. We'll handle the tools foresters and scientists use to measure the woods, and discuss from a forestry perspective the factors that govern forest management. Participants will discuss their ideas for the future forest, and critically examine different options for getting there.

NEW! INTRODUCTION TO SKULL ID

Kristen Volpi, Educator, Woodford Cedar Run Wildlife Refuge

This program reviews basic tips and tricks to identify various mammal skulls. Replica and real examples will be used (or bring one of your own to ID). We will review the use of dental formulas, the types of teeth mammals have, and other unique characteristics mammal skulls possess.

NEW! THE NJ BALD EAGLE PROJECT: PAST, PRESENT & FUTURE

Larissa Smith, Wildlife Biologist with Conserve Wildlife Foundation of NJ

Bald Eagles have made a remarkable comeback in New Jersey. In the 1980's, only one nesting pair could be found in the Garden State. As of 2017, there are 150 active pairs. Learn about the efforts that have led to this remarkably recovery and how bald eagles in New Jersey are being monitored and protected today.

A YEAR OF BIRDS IN NEW JERSEY

Susan Puder, Author of "New Jersey Birds and Beyond"

The birds you can see in southern New Jersey vary by season and habitat. This presentation will illustrate what you can find and where during each month of a typical year.

PINELANDS FROGS AND TOADS

John Bunnell, Chief Scientist, New Jersey Pinelands Commission

Learn about 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.

NEW! LIFE THAT GLOWS: UV-INDUCED FLUORESCENCE

Jennifer Bulava, Park Naturalist

Discover an intriguing hidden world of glowing organisms found right here in the Pinelands! Fungi, lichens, plants, spiders, birds, and many insects and other invertebrates all give off UV fluorescence. This presentation will display photographic observations from outings and summarize preliminary findings of Bulava's research in this exciting new field to science, ultraviolet-induced visible fluorescence.

THE SILENT MAJORITY - MOTHS OF THE PINE BARRENS

Blaine Rothauer

With 110,000 species of moths worldwide (+/- 2,000 in the Garden State) one can be kept pretty entertained during sleepless nights attracting, keying, and trying to get a peek into their secret lives. Rothauer will discuss moth biology with an emphasis on Pine Barrens ecology, and he will share images that were taken in a multitude of varied landscapes, including the Franklin Parker Preserve.

NEW! GHOST FORESTS OF THE MULLICA VALLEY

Kenneth W. Able, Director, Rutgers University Marine Field Station

Dr. Able will discuss the occurrence of ghost forests in the Mullica River Valley. Ghost forests are increasing as sea levels are rising and salt waters are invading further up the Mullica River Valley. Evidence of these ghost forests also exists under water, dating back hundreds of years in the Mullica, Wading and Bass rivers and smaller tributaries.

HISTORY/CULTURE

NEW! THE GREAT WAR AND THE NJ PINELANDS

Timothy G. Hart, Esq., Ocean County Historian

This presentation will explore the impact of World War I on the NJ Pinelands through four stories: Tuckerton Wireless, Lakehurst proving grounds, Camp Dix and Lakewood General Hospital #9. This includes local research from the National Archives.

NEW! POLITICS BEHIND THE PINELANDS PROTECTION ACT

Nelson Johnson, Author

The growth anticipated from the development associated with casino gambling in Atlantic City was one of the catalysts that led to Governor Byrne's moratorium on development and the Pinelands Protection Act. The course presenter was intimately involved in the events of that era and will discuss his insights and recollections.

THE SECRET LIFE OF THE JERSEY DEVIL

Brian Regal, PhD

The Jersey Devil is a popular piece of northeastern folklore. To find the legend's origins, it is necessary to reexamine the story and a change in historical focus. The story involves colonial era Quaker in-fighting, a family of almanac makers and religious heretics, a cross-dressing Royal governor, and Benjamin Franklin.

NEW! PIONEERING CRANBERRY/BLUEBERRY RESEARCH AT WHITESBOG

Richard Prickett, Stephanie Schrader, Terri Chiddenton and Jeff Macechak

Join J.J. White, Elizabeth White, Charles Beckwith, Beulah Darlington and others for a re-enactment of the 1918 Grand Opening of the "Whites Bog" Experimental Substation. See how this historic building has transformed and survived through the years to its Centennial Anniversary in 2018.

NEW! DR. JAMES STILL AND 19TH CENTURY AMERICAN BOTANIC MEDICINE

Joanna O'Brien

This presentation will explore the materials, medical recipes and case studies used by Dr. Still, the legendary "Black doctor of the Pinelands." Looking at parallel formulas from New England and mid-Atlantic botanic practice, military medicine and pharmacy demonstrates Dr. Still's skilled, common-sense therapeutics. Still's autobiography includes case studies that subtly diverge from a standard 19th century case narrative format. Why is that? What exactly is the author telling us in his autobiography? How does he navigate a hostile environment of academically-trained medical professionals to become a renowned physician?

HOW TO REGISTER ONLINE:

Visit stockton.edu/pinelands.

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

1. In the Search box choose Continuing Ed Jul'17-Jun'18 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 the 29th 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 **MARCH2018**, 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.**

Directions to Stockton University Galloway, New Jersey

From the North

Travel south on the Garden State Parkway to Exit 44. Take Exit 44. At the stop sign at the end of the ramp, turn right onto S. Pomona Road (County Road 575). Travel ½ mile. At the entrance sign for Stockton University, turn left onto Vera King Farris Drive. For campus parking, continue ½ mile on Vera King Farris Drive, parking is available on the right.

From the West

Travel east on the Atlantic City Expressway to Exit 12. Take Exit 12. At the stop sign at the end of the ramp, turn left onto Wrangleboro Road (County Road 575). Proceed straight through the traffic lights at Tilton Road (County Road 563) and White Horse Pike (Route 30). At the next traffic light, W. Jimmie Leeds Road, turn right. Travel 1 mile on W. Jimmie Leeds Road to the entrance sign for Stockton University on the left, turn left onto Vera King Farris Drive. For campus parking, continue about 1 ½ miles on Vera King Farris Drive, parking is available on the left.

From the South

Travel north on the Garden State Parkway and take Exit 41. At the light at the end of the Exit 41 ramp, turn left onto W. Jimmie Leeds Road. Travel 1 mile to the entrance sign for Stockton University, turn right onto Vera King Farris Drive. For campus parking, continue 1½ miles; parking is available on the left

NEW! THE RISE AND FALL OF THE CRANBERRY INDUSTRY AT DOUBLE TROUBLE VILLAGE

Andrew Anderson, State Park Service

Civil War Captain Ralph Gowdy is credited with planting the first cranberry bog at Double Trouble Village in the 1860s. By the 1900s, Double Trouble was one of the largest cranberry growers in NJ. In 1964, the company dissolved and sold its land. Through rare and colorful slides and video, look at the rise, fall, and temporary rise again of the cranberry industry.

PINE BARRENS TIME MACHINE

John Volpa, Director of Education for Pinelands Adventures

Life is about change. History is the story of those changes. Join a New Jersey journey back in time as we examine local history's meaning and relevance to our present lives. Topics examined will include geologic time, people and industries of the Pine Barrens and social evolution.

NEW! HISTORICAL TOUR OF THE MULLICA RIVER WATERSHED

Michael Hogan

Take virtual a tour of the Mullica River Watershed, from its headwaters in Waterford Township to the Bay. Learn about historic places and buildings including: Richards Mansion in Atco, Pleasant Mills Paper Mill, Peasant Mills Church and Cemetery, Friendship, Port Republic, Clarks Landing and others.

NEW! HISTORICAL TOUR OF THE GREAT EGG HARBOR RIVER WATERSHED

Michael Hogan

Take virtual a tour of the Great Egg Harbor River Watershed, from its headwaters in Berlin to the bay. Learn about historic places and buildings including: Berlin Park, Ireland Hoffer House, the Blue Hole, Inskip, Berryland, Weymouth Furnace, Walker Forge, Aetna Furnace, Mays Landing, Estellville Glassworks, Belcoville Ammunition Plant, Head of River and others.

NEW! CITIZEN DRIVEN MOSQUITO CONTROL

Dr. Dina Fonseca, Entomology Department of Rutgers University

Citizen Action through Science aims to provide communities with scientific support to potentially develop projects that directly benefit them. The flagship project is Community Mosquito Control, where residents of a township have organized to remove mosquito habitat from their yards and deploy traps that kill egg-laying female mosquitoes.

NEW! EXCAVATING CEDAR BRIDGE TAVERN

Richard Veit, Ph.D., Michael Gall, M.A., Adam Heinrich, Ph.D.

Archaeological excavations on the Barnegat Township Archaeological excavations on the Barnegat Township property from 2010 to 2017 have revealed many important aspects of life in the 18th and 19th century. This Pinelands archaeology sampler consists of 20-minute presentations by three archaeologists who were part of the excavations at Cedar Bridge Tavern. They will share their findings and insights regarding this historic site.

NEW! BEACHES, BREAKERS, AND BAYS: 1600 - 2018

Rev. Norman Goos

We will trace the development and changes along the shorelines and barrier Islands that protect the eastern edge of the Pinelands National Reserve. We will take a close look at how natural and human forces have steered this ever-shifting sequence.

FIELD TRIPS/OUTSIDE PROGRAMS

NEW! EDWIN B. FORSYTHE NATIONAL WILDLIFE REFUGE BIRDING AND NATURE WALK TRIP

German Georgieff, Ocean County Parks

Ocean County Department of Parks & Recreation naturalists will take you on a tour of the refuge's 8-mile wildlife drive, where earthen dikes have created fresh- and brackish-water marsh that is ideal habitat for a variety of bird species. After the drive and a short **"bring your own" lunch break, a nature walk will be led on one of the refuge's maritime forest trails.**

NEW! FIRE ECOLOGY IN THE NEW JERSEY PINE BARRENS

**Ryan Rebozo, Ph.D. Director of Conservation Science
Pinelands Preservation Alliance**

Participants will take a three hour field trip in the Pine Barrens to discuss fire ecology, including a visit to the pygmy pine plains, an area of the New Jersey Pine Barrens with historically high fire frequency. **Participants are asked to dress appropriately for a three hour hike in late winter conditions. There will be no access to bathroom facilities during this trip.**

NEW! GHOSTS OF THE WADING RIVER

Jeff Larson, Pinelands Adventures Guide

Participants will get a glimpse into what life was like in the Pine Barrens along the Wading River during the 1800's. In this three hour excursion, participants will explore the ruins in and around the former town of Harrisville and surrounding area. **Dress warmly and be prepared to walk short distances.** Bathroom facilities will be available in the form of a very primitive outhouse. Make sure to bring your cameras.

TRENDS IN BIODIVERSITY IN THE NJ PINE BARRENS

Jamie Cromartie, Associate Professor of Entomology, Stockton University

Examine the nature of biodiversity hotspots, the particular features of the Coastal Plain that have produced its diverse flora and fauna and the historic and current changes that affect it. The course includes a field walk to examine some efforts to manage diversity on the Stockton campus.

ECOLOGICAL FOREST MANAGEMENT IN THE PINELANDS:

THE STOCKTON FOREST MANAGEMENT PLAN

**George Zimmermann, Professor Environmental Studies
Program, Stockton University**

Stockton University obtained approval for a 10-year comprehensive forest management plan for 1,500 forested acres of its campus. See a PowerPoint lecture that will give an overview of the plan, then tour some of the first silvicultural treatments and ecological experiments started on the Stockton campus forests. **Be prepared for a walk!**

BIRDING THE PINELANDS OF STOCKTON UNIVERSITY

**John D. Rokita Principle Lab Tech. Animal Lab & Collection
Room Facilities, Stockton University**

Rokita will provide a look into the avian species that inhabit campus. You will spend a portion of class examining taxidermy live mounts and study skins from Stockton's ornithology collection, then head outdoors to identify as many bird species as possible. Bring a sense of curiosity, **proper attire (warm clothing), sturdy comfortable shoes, possibly rain gear, binoculars and a field guide if you have them.**

MUSIC

NEW! DENIZEN PINE – LOCAL INSTRUMENTAL MUSIC TRIO PERFORMING ORIGINAL WORKS

Denizen Pine, an instrumental music trio with roots in the Pinelands, will perform original and interpreted works. Several pieces have themes directly taken from, or inspired by, the history, ecology or folklore of the region.

NEW! THE PITCH PINES

Local to South Jersey, The Pitch Pines have continued to live up to their title: South Jersey's favorite acoustic group. Playing regularly in the Galloway area, The Pitch Pines have quickly become a staple of entertainment.