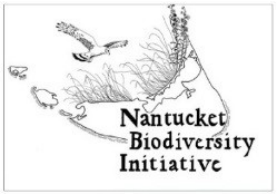

7th Biennial Research Conference
8:30am to 4:30pm, 4 November, 2017

Program

8:30 – 9:00am: Coffee and Refreshments

9:00 - 9:10am: ***Opening Remarks***: Karen Beattie: Chair, NBI

Session 1: 9:10-10:30am
Moderator: Danielle O'Dell

9:10 – 9:30am **EXPLORING DIFFERENCES IN ADULT SURVIVAL AND SITE FIDELITY OF MIGRATORY AND NON-MIGRATORY AMERICAN OYSTERCATCHER (*HAEMATOPUS PALLIATUS*) POPULATIONS.**
Sean P. Murphy[1], Thomas Virzi[1], and Felicia Sanders[2]
[1]Ecostudies Institute, East Olympia, Washington
[2]South Carolina Department of Natural Resources, McClellanville, South Carolina

9:30 - 9:50am **PLANT COMMUNITY DYNAMICS OF DOUBLE-CRESTED CORMORANTS ON NANTUCKET ISLAND, MA**
Neil Foley[1]
[1] Central Michigan University, Mt. Pleasant MI.

9:50 – 10:10am: **A COMPARISON OF FORAGING ECOLOGY BETWEEN URBAN AND REMOTE SEABIRD COLONIES**
Matthew Fuirst[1*], Richard Veit[2], Lesley H. Thorne[1]
[1]School of Marine and Atmospheric Sciences, Stony Brook University, Stony Brook, NY 11794, USA
[2]College of Staten Island, City University of New York, 2800 Victory Boulevard, Staten Island, NY 10314

10:10-10:30am: **A HALF-CENTURY OF OSPREY POPULATION RECOVERY IN SOUTHEASTERN NEW ENGLAND.**
Alan F. Poole, Cornell Lab of Ornithology

10:30-11:00am ***Morning Break: Poster Session*** with Coffee and Refreshments

Session 2: **11:00 – 12:20**
Moderator: Kaitlyn Shaw

11:00 - 11:20am **TALES OF THREE MARSHES 2017 (THE SEAS ARE RISING)**
Peter R. Burn, Biology Department, Suffolk University, Boston, MA

11:20 - 11:40am **PATTERNS IN VEGETATION COMPOSITION OF TWO FORMER CRANBERRY BOGS PRIOR TO ECOLOGICAL RESTORATION IN SOUTHEASTERN MASSACHUSETTS**
Michael Whittemore[1], Chris Neill[1]
[1]Woods Hole Research Center, Falmouth, Massachusetts

11:40 - 12:00pm **RADICAL TEMPORAL SHIFT IN THE GENETIC COMPOSITION OF NEW ENGLAND CHICORY POPULATIONS**
Tomáš Závada[1] and Rick Kesseli[2]
[1]Sterling College, 16 Sterling Drive, Craftsbury Common, Vermont 05827 USA;
[2]Department of Biology, University of Massachusetts-Boston, 100 Morrissey Boulevard,
Boston, Massachusetts 02125 USA

12:00 - 12:20pm **BENTHIC HABITAT MAPPING IN BAYS AND HARBORS: A CASE STUDY FROM CAPE COD NATIONAL SEASHORE**
Mark Borrelli[1,2], Theresa L. Smith[1], Bryan Legare[1]
[1] Center for Coastal Studies, Seafloor Mapping Program, Provincetown, MA
[2] University of Massachusetts-Boston. Boston, MA

12:20 - 1:20pm: ***Lunch Break: Poster Session***

Session 3: 1:20-2:30pm
Moderator: Emily Goldstein Murphy

1:20 - 1:40pm **EVALUATION OF THE PREY BASE AND FEEDING RELATIONSHIPS OF THE AMERICAN BURYING BEETLE (*NICROPHORUS AMERICANUS*) ON NANTUCKET, MA.**
Brandon M. Quinby[1], Elizabeth A. Flaherty[1] and J.C. Creighton[2]
[1]Purdue University, West Lafayette, IN; [2]Purdue University North West, Hammond, IN.

1:40 - 2:00pm **NANTUCKET'S NEGLECTED HERBIVOROUS INSECTS**
Charles S. Eiseman[1] and Julia A. Blyth[1,2]
[1]Northfield, MA; [2]Maria Mitchell Association

2:00 - 2:20pm **THE ORTHOPTERA OF MARTHA'S VINEYARD**
Matthew L. Pelikan
The Nature Conservancy (Massachusetts)

2:20 - 2:40pm **UNDERSTANDING THE DISTRIBUTION OF THE *NICROPHRUS* CARRION BEETLES ON NANTUCKET, MA**
Elisabeth Sorrows[1]
[1]Maria Mitchell Natural Science Museum, Nantucket

2:40-3:10pm ***Afternoon Break: Poster Session and Refreshments***

Session 4: 3:10 – 4:30pm
Moderator: Peter Brace

3:10 - 3:30pm **PREVENTING TICK-BORNE DISEASE ON NANTUCKET**
Joanna Buchthal[1] and Kevin Esvelt[1]
[1] Media Laboratory, Massachusetts Institute of Technology

3:30 - 3:50PM **NORTHERN LONG-EARED BATS ON NANTUCKET**

Zara R. Dowling[1] and **Danielle I. O'Dell**[2]
[1]Department of Environmental Conservation, University of Massachusetts Amherst, Amherst, MA
[2]Nantucket Conservation Foundation, Nantucket, MA

3:50 - 4:10pm **MATERNITY COLONY AND FALL/WINTER PERSISTENCE OF THREATENED NORTHERN LONG-EARED BATS ON THE ISLAND OF MARTHA'S VINEYARD, MA.**

Luanne Johnson[1], Liz Baldwin[1], Zara Dowling[2], Jonathan Reichard[3], and Susanna vonOettingen[4]
[1]BiodiversityWorks, Vineyard Haven, MA; [2]University of Massachusetts, Amherst, MA; [3]U.S. Fish & Wildlife Service, Hadley, MA; [4]U.S. Fish & Wildlife Service, Concord, NH.

4:10 - 4:30pm **CREEK DISTANCE AND SEAGRASS DENSITY EFFECTS ON CRAB SPECIES ABUNDANCE**

Matthew F. Souza[1]
University of Massachusetts Boston, School for the Environment; Byrnes lab

Closing Remarks: Sara Trainor Bois

Cocktail Reception and Mixer
5:00 – 7:00
Nantucket Culinary Center (upstairs)

Posters

USING POND NUTRIENT LEVELS TO PREDICT METHYLMERCURY CONCENTRATIONS IN FRESHWATER FISH

Callum Hoyt Backstrom[1]
[1]Dartmouth College, Hanover, NH

USING LIGHT-LEVEL GEOLOCATORS TO STUDY MIGRATION AND NESTING PHENOLOGY OF EASTERN WILLET ON MARTHA'S VINEYARD, MASSACHUSETTS

Elizabeth Baldwin[1], Luanne Johnson[1], Joseph Smith[2], and James Fox[3]
[1]BiodiversityWorks, Vineyard Haven, MA, [2]Cape May, NJ, [3]Migrate Technology, England.

OBSCURE LOCATION NAMES ON NANTUCKET SPECIMENS

Julia Blyth[1] and Kelly Omand[2]
[1]Maria Mitchell Association; [2]Nantucket Conservation Foundation

ISLAND-WIDE COLLABORATION FOR INVASIVE PLANT MANAGEMENT TO SUPPORT LOCAL ECOSYSTEMS

Elizabeth C. Buck[1], Kelly A. Omand[1,2], Sarah T. Bois[2,3]
[1]Nantucket Conservation Foundation; [2]Nantucket IPSC Co-Chair; [3]Linda Loring Nature Foundation

IN PRAISE OF THE AMANITA MUSCARIA - HALLUCINOGENIC SOMA: AN INTERTWINING OF NEW ENGLAND POETRY, A QUAKER HYMN AND ISLAND ECOLOGY.

Douglas E. Eveleigh[1], Diane F. Davis. [1]Rutgers University, New Brunswick, NJ

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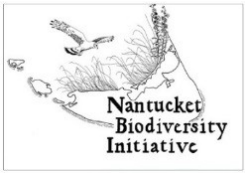

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Presenter Contact Information

Backstrom, Callum, H.; callum.h.backstrom.18@dartmouth.edu

Baldwin, Elizabeth. LizB@biodiversityworksmv.org

Blyth, Julia; jablyth@gmail.com

Borrelli, Mark; mborrelli@coastalstudies.org

Buchthal, Joanna; buchthal@mit.edu

Buck, Elizabeth C; lbuck@nantucketconservation.org

Burn, Peter R.; pburn@suffolk.edu

Dowling, Zara; zdowling@eco.umass.edu

Eiseman, Charley.; ceiseman@gmail.com

Eveleigh, Douglas; eveleigh@scarletmail.rutgers.edu

Foley, Neil; foley1n@cmich.edu

Fuirst, Mathew; matthew.fuirst@stonybrook.edu

Johnson, Luanne; LuanneJ@biodiversityworksmv.org

Murphy, Sean; spmurp@gmail.com

Pelikan, Matt; mpelikan@tnc.org

Poole, Alan F.; afp7@cornell.edu

Quinby, Brandon M.; bquinby@purdue.edu

Sorrows, Elisabeth; esorrows13@gmail.com

Souza, Matthew F.; Matthew.Souza001@umb.edu

Whittemore, Michael J.; mwhittemore@whrc.org

Zavada, Tomas; tzavada@sterlingcollege.edu